

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 65-22663
Exam Date: 8/24/2016

1. Current Owner:
CITY OF PAYETTE 700 CENTER AVE PAYETTE ID 83661 (208) 642-6024
2. Accompanied by: Michele Edl (IDWR) and Jake Hust (City of Payette)
Phone No: 208-642-6024 City Hall
Address: 700 Center Avenue; Payette, ID 83661
Relationship to Permit Holder: Water Superintendent

3. **SOURCE:**
GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: City: 65-12019, 65-12214, 65-12951, 65-13341, 65-2785, 65-5630, 65-65, 65-68, 65-7001, 65-13341 and Lower Payette Ditch Co (Many Rights)
2. Other water rights with the same point-of-diversion: 65-13341

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

GROUND WATER NE¼SW¼NE¼ Sec. 34, Twp 09N, Rge 05W, B.M. PAYETTE County (Well #19)

Method of Determination: GPS and Arc GIS

2. PLACE OF USE: MUNICIPAL – City of Payette Service Area

Method of Determination: Arc GIS

3. DISTRIBUTION SYSTEM MAP/DIAGRAM

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. DIVERSION INFORMATION

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Well 9 Previously 10 or 14 Back up	Franklin	25-30	Unknown	Peerless Submersible	4" discharge
Well 11	Well is now decommissioned and capped. Replaced by Well 23.				4" discharge
Well 12 Back up	Franklin	25	Unknown	Berkeley Submersible	TT350 and 8" discharge
Well 15	Franklin	25-30	Unknown	Peerless Submersible	10" discharge
Well 18	Franklin	30	Unknown	Franklin Submersible	4" discharge
Well 19	Franklin	30	Unknown	Franklin Submersible	4" discharge

Well 20 D0012878 Previously 8	Franklin	20	Unknown	Texas Submersible Turbine	4" discharge
Well 21 D0018122	Well is now decommissioned and capped.				4" discharge
Well 22 D0029489	Franklin	20	Unknown	Peerless Submersible	4" discharge
Well 23* D0046471 Previously 11	Franklin	20	Unknown	Berkeley Submersible	7T20-350 and 4" discharge

*POD was developed outside of the 65-22663 development period.

*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
Flowmeter	Propeller	McCrometer	E7000-000	#9: E98-00836 #12: E98-00839 #15: E98-00838 #18: E98 series #19: E98-00835 #20: E98 series #21: E98 series #22: E98 series #23: E98 series	4"	August 2009

2. Measurements:

Well	Gallons Per Minute	Cubic Feet Per Second
Well #15	220 GPM	0.49 CFS
Well #20	180 GPM	0.40 CFS
Well #22	230 GPM	0.51 CFS
	<i>Total</i>	<i>1.40 CFS</i>

*Well 19 was not pumping at the time of the exam.

E. FLOW CALCULATIONS

 x Additional Computation Sheets Attached

Measured Method: Flow measurement records from the permit development period were used to derive a theoretical maximum diversion rate.

See Attached Sheets – theoretical flow and diversion volume records for permit development period

Permit diversion rate = 0.89 CFS

Recommended License diversion rate = 0.67 CFS (Max Capacity Well #19)

Recommend Combined use limit = 10.15 CFS for no additional rate, only a new POD.

I reviewed diversion volumes from the permit development period to derive a theoretical peak hour demand. The highest theoretical peak hour demand occurred in July 2002 at approximately 8.9 CFS. I compared this rate to the sum of the City's existing water right diversion rates. Because 8.9 CFS is smaller than the 10.15 CFS total, this right 65-22663 only adds a point of diversion to the system, but no additional rate. The 0.67 capacity of Well #19 adds redundancy to the City's diversion system. Therefore, I am recommending a combined diversion limit of 10.15 CFS.

Basin	Seq.	Process	Basis	Priority Date	Diversion Rate	Source List	Water Use
65	65	Right	Decreed	6/1/1918	2.00	GROUND WATER	MUNICIPAL
65	68	Right	Decreed	6/1/1948	0.56	GROUND WATER	MUNICIPAL
65	2785	Right	Decreed	7/15/1964	1.02	GROUND WATER	MUNICIPAL
65	5630	Right	Decreed	4/13/1945	0.78	GROUND WATER	MUNICIPAL
65	7001	Right	Decreed	6/8/1967	1.45	GROUND WATER	MUNICIPAL
65	12019	Right	Decreed	9/22/1977	0.22	GROUND WATER	MUNICIPAL
65	12214	Right	Decreed	4/5/1979	2.12	GROUND WATER	MUNICIPAL
65	12951	Right	License	12/29/1988	1.00	GROUND WATER	MUNICIPAL
65	13341	Right	License	8/26/1991	1.00	GROUND WATER	MUNICIPAL
65	22663	Permit		4/14/2002	0.67	GROUND WATER	MUNICIPAL
Combined Diversion Rate Limit					10.15		

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: **Not Applicable**

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} =$$

2. Volume Calculations for Other Uses: **Municipal – Volume limit not applicable**

G. NARRATIVE/REMARKS/COMMENTS

At 9:30 AM on Wednesday, August 24, 2016 Michele Edl and I met Mr. Jake Hust, City of Payette Water Superintendent, at Payette City Hall to begin the field exam for 65-22663. Jake had the City's monthly diversion records from each well during the development period ready to submit to us, as requested. We gathered in the Mayor's conference room to reconcile differences between IDWR's records of the City wells and their actual locations and numbering scheme. We also reviewed the City service area map to determine how many more customers are now being served since the end of the development period in 2007. We concluded the meeting and left City Hall to view all of their operational and back-up wells.

First, we followed Jake to Well 23, located near the corner of 7th Avenue N. and N. 9th Street. Actually, two wells are located on the City parcel, but only Well 23 is currently active. At this location, Well 11 has been capped and decommissioned. Well 23 was not pumping at the time of the exam. According to City well house records, it has a total depth of 210 feet and is equipped with a submersible 20 hp Berkeley 3-stage pump 7T20-350 with a Franklin brand motor. The well typically operates at 200 or 250 GPM.

Second, we caravanned to Well 20, located down a private drive off of 7th Avenue N. The private drive is approximately 850 feet east of US Hwy 95. Well 8 is also located on this City parcel, but it has been decommissioned and capped. Well 20 was pumping about 180 GPM (0.40 cfs) at the time of the exam. According to City well house records, it has a total depth of 125 feet and is equipped with a 20 hp Texas submersible turbine with a Franklin brand motor. The well typically operates at 190 to 200 GPM.

Third, we drove to Well 18, located approximately 800 feet south of the City Fire Station (US Hwy 95 & 7th Avenue N). Upon arrival, we could immediately see that the well was offline. The pump liner was extracted and stored outside the well house. Jake mentioned that the pump was in need of repair or replacement. He was waiting for more information from the manufacturer on whether a repair would be feasible. The well is drilled to an approximate max depth of 268 feet, and it is equipped with 30 hp Franklin submersible pump and motor. The pump is set at a depth of

200 feet and diverts up to 250 GPM. This well is regularly dosed with polyphosphate to sequester iron and manganese.

Fourth, we moved on to Well 19, the point of diversion for 65-22663. This well is located near the southeast corner of the City Fire Station property—only 775 feet north of Well 18. The well was unfortunately not running at the time of the exam. It is equipped with a 30 hp 3-stage submersible Franklin brand pump and motor. Over the years, the pump has been set at a variety of depths: 205 feet, 163 feet, 200 feet, and 148 feet. According to well house records, the pump typically produces 200 to 300 GPM.

Fifth, we traveled to Well 22, located at 1900 Decker Drive in Payette. Well 22 was put into service in December of 2004. It is equipped with a 20 hp submersible Peerless pump and Franklin brand motor. The well is drilled to a depth of approximately 241 feet, but the pump is set at 126 feet. The well produces 250 GPM. At the time of the exam, this well was delivering 230 GPM to the distribution system.

Sixth, we drove to Well 9, located on N 21st Street, near the intersection of N 21st and Center Avenue. Well 9 went online in August 1996. Jake explained that Well 9 is used only as a backup well. The City closed the valve from the well to the distribution system in 2012, and it hasn't been opened since. Well 9 was equipped with a 30 hp Peerless pump and Franklin brand motor, but in 2002 the motor was replaced with a 25 hp. This well will produce 300 GPM but is typically throttled down to 250 GPM. This well site used to house either Well 10 or 14 (records unclear). The old well has been capped and decommissioned, but its concrete pedestal still acts as a support to the Well 9 piping.

Seventh, we followed Jake to Well 15, located on N Iowa Avenue, across the street from Payette Middle School. Well 15 came into service in 1981. From the well house records, I noticed that the pump has been historically replaced every 2-4 years, often with similar style/horsepower models. Since its beginning, the well has seen many pumps. It appeared to have been originally equipped with 60 hp turbine pumps which produced 450 GPM. In 1985 the pump was replaced with a 30 hp pump, possibly submersible. In 1991, the pump was replaced with a 20 hp. In 2003 the pump location was recorded at a depth of 146 feet. During the development period, this well operated with a 30 hp pump followed by a 25 hp Peerless pump. The pump was subsequently replaced in 2011 with a 30 hp Franklin brand pump and motor and again in 2015 with a 20 hp Grundfos pump and motor. During the development period, the well often produced 220 to 250 GPM. At the time of the field exam, the well was producing 220 GPM; Jake commented that the well is throttled down, but is capable of producing 300 GPM.

Eighth, we caravanned to Well 12, the second of the City's two backup wells. Well 12 is located on S Iowa Avenue, just north of the intersection of 1st Avenue S and Iowa Ave. This well came online in September 2000. It houses a TT350 Berkeley pump and a 25 Hp Franklin motor. The pump is set at approximately 131 feet, but the well is drilled to just over 166 feet. When in use, it will produce 250 GPM.

After this, we followed Jake to the 20th Street reservoirs, located near the intersection of 20th Street and Hyland Drive. This site holds two reservoirs which are operated in parallel; their level rise and fall together. The square reservoir was built circa 1905 and has a capacity of 400,000 gallons. The newer circular reservoir was constructed in the early 2000s and has a 1 million gallon capacity. Though we did not visit the site, we could also see Clay Peak reservoir near the south end of Iowa avenue up on the hill (Clay Peak). It has a capacity of 1.2 million gallons. The Clay Peak reservoir serves the area of Payette east of the Lower Payette Ditch ("on the hill"), and the 20th Street reservoirs serve the portion of Payette west of the Lower Payette Ditch. When the Clay Peak reservoir needs to refill, water is pumped directly from the 20th Street reservoirs up to Clay Peak. This refill action takes about 4 hours every other day.

Finally, Jake agreed to show us the site of decommissioned Well 21 located at the end of NE 16th Avenue. It may be a long term possibility to run 2500 feet of waterline from the end of NE 16th Avenue north, to the Municipal Airport and take the airport well offline (seasonally non-potable). Michele and I thanked Jake for his time and great deal of help, and we parted ways.

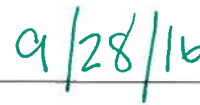
Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**BENEFICIAL USE
MUNICIPALPERIOD OF USE
01/01 to 12/31DIVERSION RATE
0.67 CFSANNUAL VOLUMETotals: 0.670 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 ☒ None**I. AUTHENTICATION****Ashley Newbry, Staff Engineer**

Field Examiner's Name



Date



THEORETICAL HORSEPOWER EQUATION WORKSHEET

Water Right No.: 65-22663
 Reviewer: Ashley Newbry
 Date of Review: 8/24/2016

P/D No.:	Scenario 1	Scenario 2	Scenario 3	
PUMP HORSEPOWER (HP)	30	30	30	
BOOSTER HORSEPOWER (HP)	0	0	0	
PUMPING LEVEL (FT)	148	163	205	
DISCHARGE PRESSURE (PSI)	56	61	66	
RATE OF FLOW (CFS)	0.666	0.608	0.517	AVG 0.60
RATE OF FLOW (GPM)	299.0	272.9	232.0	268.00
TOTAL DYNAMIC HEAD (FT)	277.36	303.91	357.46	312.91

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.
 No Friction

Examiners Notes:

Well 19 is located near the southeast corner of the City Fire Station property—only 775 feet north of Well 18. The well was unfortunately not running at the time of the exam. It is equipped with a 30 hp 3-stage submersible Franklin brand pump and motor. Over the years, the pump has been set at a variety of depths: 205 feet, 163 feet, 200 feet, and 148 feet. According to well house records, the pump typically produces 200 to 300 GPM. The well is approximately 213 feet deep.

Submersible Turbine Pumps

Model 275STS8 Performance

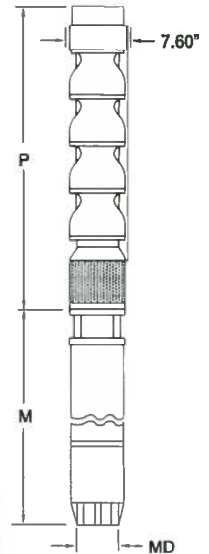
Dimension Information

HP	Stages	Trim	Motor Size	P inch	M* inch	MD* inch	Motor Wt. lbs.	Pump Wt. lbs.
7.5	1	1C	6"	23.8	24.2	5.44	99	95
10	1	1B	6"	23.8	25.4	5.44	103	95
15	2	1B 1C	6"	29.3	28.0	5.44	114	122
20	2	1A 1B	6"	29.3	30.6	5.44	126	122
25	3	2B 1C	6"	34.9	33.1	5.44	140	150
30	3	3A	6"	34.9	35.7	5.44	154	150

Note: *MD diameter = Franklin Electric Motor, M = Maximum Length of Franklin Electric Motor

Order Information

8" Submersible Turbine Pump Ends								
GPM	HP	Stages	Trim Size	Motor Bracket Size	Discharge Size	Order No.	Model No.	Shipping Weight (lbs.)
275	7.5	1	1C	6"	4" NPT	97080275001	275STS7D8C-0164	111
	7.5	1	1C	6"	6" NPT	97080275101	275STS7D8C-0166	111
	10	1	1B	6"	4" NPT	97080275201	275STS10D8B-0164	111
	10	1	1B	6"	6" NPT	97080275301	275STS10D8B-0166	111
	15	2	1B 1C	6"	4" NPT	97080275002	275STS15D8X-0264	140
	15	2	1B 1C	6"	6" NPT	97080275102	275STS15D8X-0266	140
	20	2	1A 1B	6"	4" NPT	97080275302	275STS20D8X-0264	140
	20	2	1A 1B	6"	6" NPT	97080275402	275STS20D8X-0266	140
	25	3	2B 1C	6"	4" NPT	97080275003	275STS25D8X-0364	171
	25	3	2B 1C	6"	6" NPT	97080275103	275STS25D8X-0366	171
	30	3	3A	6"	4" NPT	97080275203	275STS30D8A-0364	171
	30	3	3A	6"	6" NPT	97080275303	275STS30D8A-0366	171

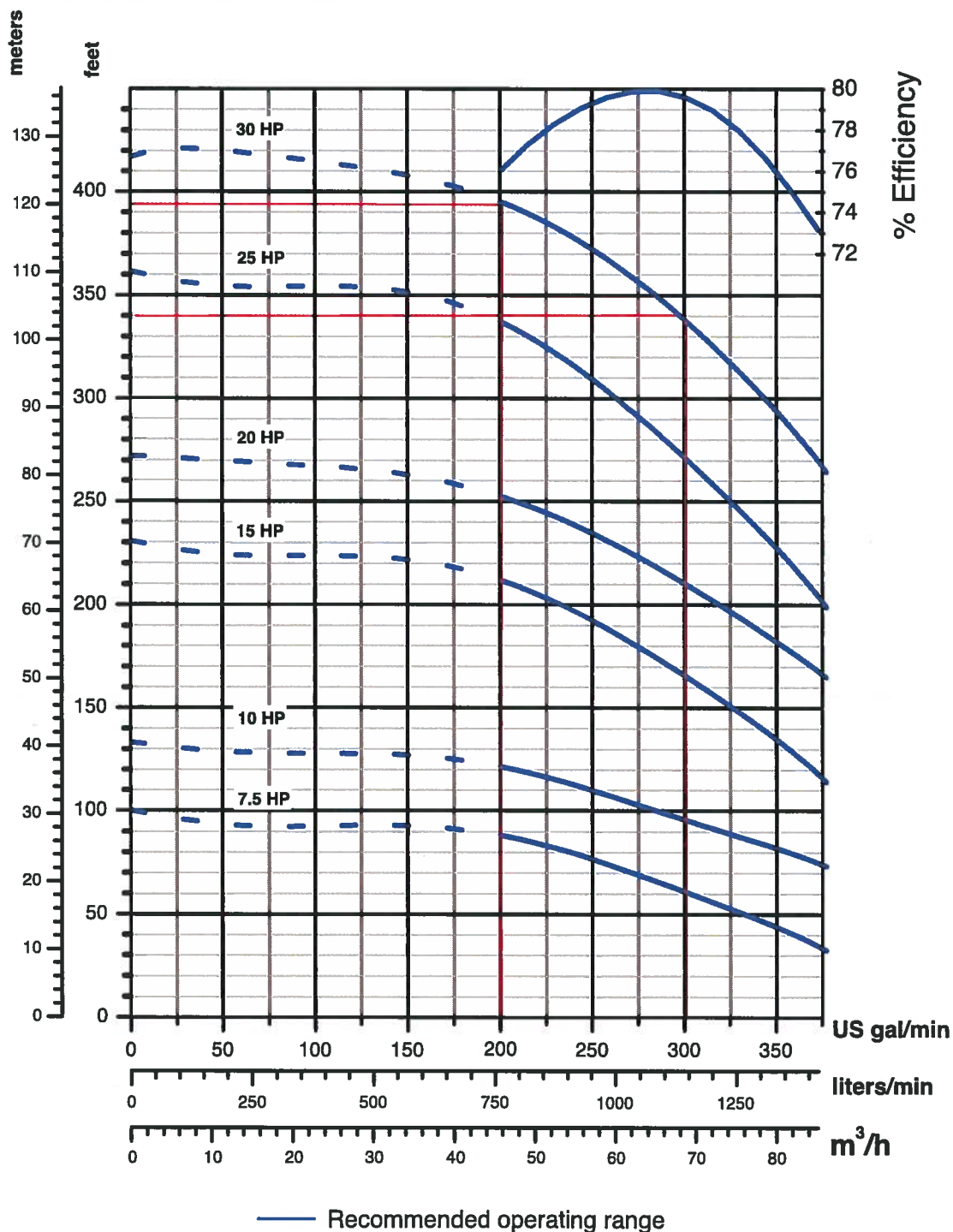


well #19

65-22663

Submersible Turbine Pumps

Model 275STS8 Performance



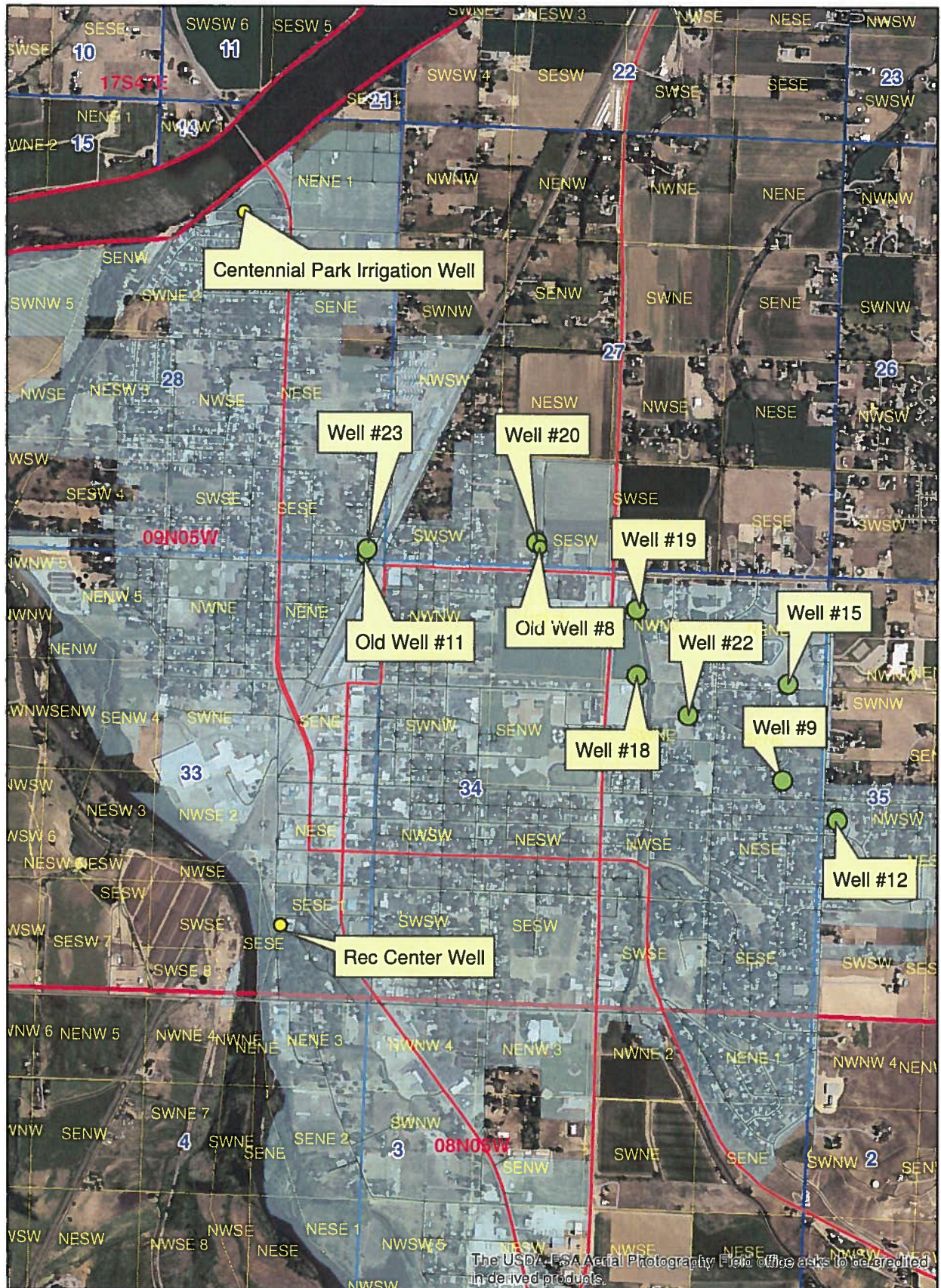
Note: Performance based on:
- Fresh water, 68 °F
- 6" motor / 3450 rpm

FPS
STSseries

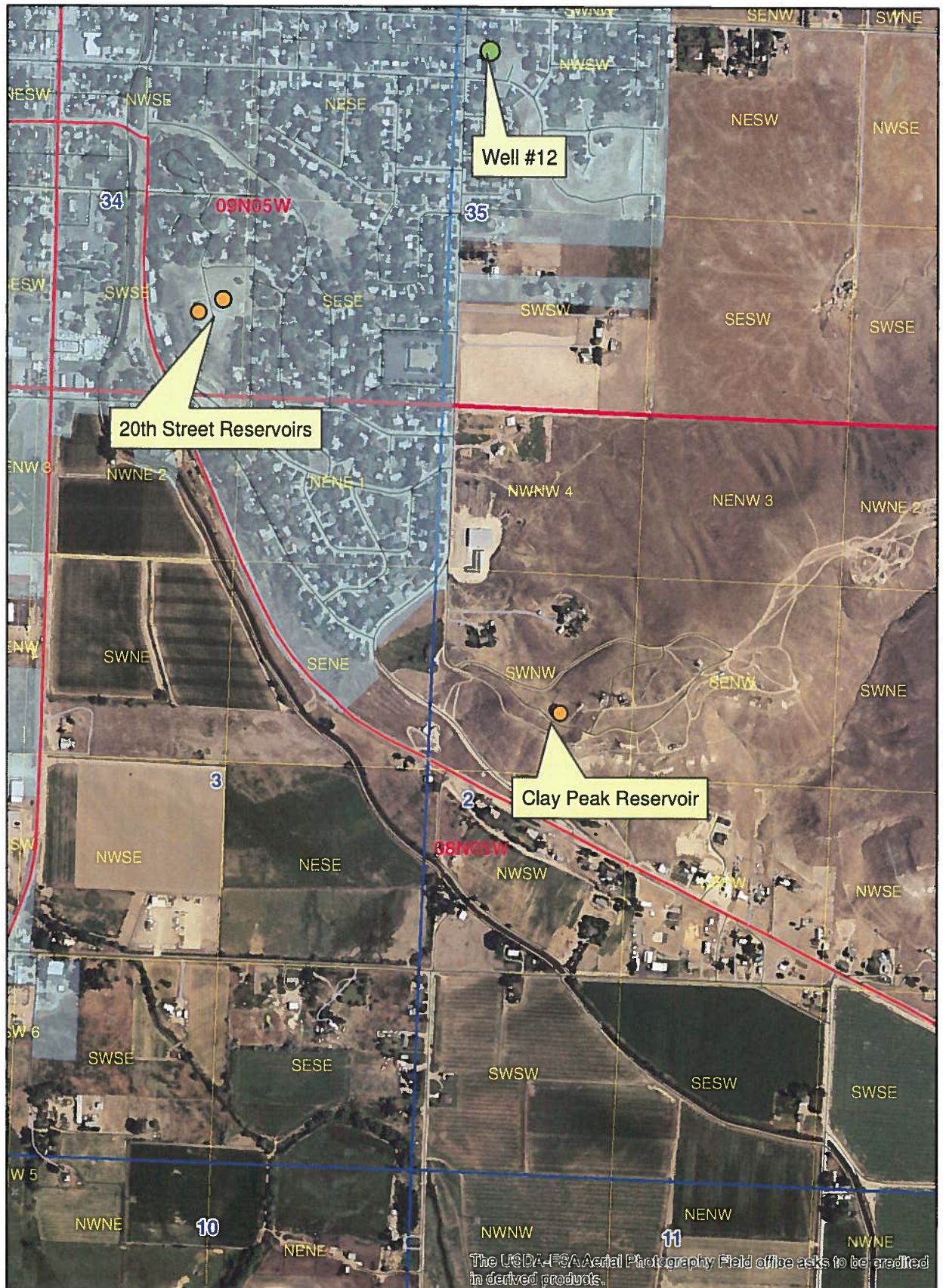
Well #19
65-22663

City of Payette
Water Pumped April 2002 through July 2007

	Well 9	Well 11	Well 12	Well 15	Well 18	Well 19	Well 20	Well 21	Well 22	
2002 March	4,952,900	-	6,169,000	8,912,900	5,805,900	6,070,800	6,009,000	-	-	SUM (gallons)
2002 April	4,360,900	391,300	5,251,600	8,423,600	5,238,000	5,456,800	5,787,700	-	-	37,920,500
2002 May	4,301,900	1,786,800	2,231,700	8,473,000	4,300,200	4,472,100	5,797,400	-	-	30
2002 June	3,638,600	2,271,600	4,632,200	8,463,400	4,355,400	4,494,900	5,426,300	-	-	31
2002 July	5,153,300	2,461,700	6,412,200	8,591,800	5,422,700	5,622,000	5,937,000	-	-	30
2002 August	4,095,600	2,248,100	4,954,800	8,286,800	4,370,000	4,533,200	6,056,800	348,300	-	31
2002 September	3,476,000	2,047,600	4,051,300	7,636,800	3,754,000	3,896,300	5,871,500	115,200	-	30
2002 October	3,618,200	1,891,500	4,356,200	7,709,100	3,816,100	3,941,800	6,191,500	87,700	-	31
2002 November	3,169,800	1,760,400	3,830,900	6,860,900	3,386,100	2,533,600	6,093,200	100,600	-	30
2002 December	2,367,100	1,621,600	3,381,500	6,447,700	2,640,600	2,733,300	5,889,800	189,200	-	31
2003 January	3,058,400	1,902,800	3,806,400	7,398,000	2,786,500	3,389,600	6,101,500	102,300	-	30
2003 February	3,112,200	1,811,300	3,999,900	7,231,000	2,532,000	3,548,800	5,296,200	83,900	-	28
2003 March	3,056,200	1,916,500	4,171,500	8,066,100	3,617,000	3,386,300	5,764,800	109,400	-	31
2003 April	2,970,100	1,716,700	3,632,100	7,710,300	3,225,900	3,231,200	5,964,300	140,600	-	30
2003 May	3,244,700	1,638,500	4,287,600	7,778,400	3,791,300	3,808,800	6,297,700	134,000	-	31
2003 June	3,859,800	1,347,500	5,372,200	8,612,700	4,128,600	4,533,300	5,561,900	175,900	-	30
2003 July	4,399,800	1,075,900	6,205,100	6,113,700	5,167,700	5,157,800	6,095,300	207,000	-	31
2003 August	2,128,000	-	3,575,900	7,870,200	7,327,100	4,178,400	5,858,800	203,000	-	30
2003 September	1,472,700	-	4,033,700	6,376,600	3,724,500	6,699,400	7,503,300	190,500	-	31
2003 October	1,285,100	-	2,551,900	8,142,000	3,085,300	6,492,800	7,655,500	171,700	-	30
2003 November	765,200	-	1,319,300	6,935,300	1,716,000	7,580,800	5,850,200	160,500	-	31
2003 December	845,100	-	1,532,700	6,788,800	1,912,400	7,190,100	6,184,900	186,000	-	30
2004 January	940,800	-	1,714,400	7,254,600	6,471,300	3,237,500	7,300,900	160,300	-	31
2004 February	913,200	-	1,638,900	6,746,800	6,337,200	2,082,200	6,671,200	174,900	-	29
2004 March	1,030,200	-	2,948,000	3,321,900	3,636,500	8,495,700	7,331,200	202,900	-	31
2004 April	420,700	-	2,397,300	7,468,200	1,802,200	7,358,700	6,557,400	308,500	-	30
2004 May	733,200	-	3,284,500	7,987,500	6,489,300	4,466,600	7,295,200	252,400	-	31
2004 June	1,009,500	-	3,249,800	7,928,000	7,704,600	2,820,100	7,094,100	319,100	-	30
2004 July	1,087,000	-	2,794,900	9,237,700	8,537,300	2,481,100	7,780,200	383,500	-	31
2004 August	906,500	-	2,149,900	8,683,700	7,422,500	7,304,200	256,300	-	-	30
2004 September	664,000	-	1,857,000	7,238,200	1,744,000	7,369,900	6,156,700	157,500	-	31
2004 October	907,700	-	2,213,500	6,715,600	2,016,700	6,819,000	5,714,900	-	-	30
2004 November	618,100	-	2,053,600	6,311,400	1,851,500	6,679,500	5,614,900	179,530	-	31
2004 December	576,900	-	2,067,900	6,446,400	5,361,000	1,936,900	5,491,000	405,170	2,223,600	30
2005 January	393,600	-	1,630,000	5,913,700	4,903,800	1,712,000	5,132,500	425,200	3,947,200	31
2005 February	336,500	-	1,408,000	5,332,400	4,559,900	1,441,400	4,627,100	409,800	4,042,200	28
2005 March	218,600	-	898,800	6,610,200	5,598,000	1,554,400	5,700,400	444,100	4,709,300	31
2005 April	151,700	-	955,700	4,698,700	1,207,700	5,806,700	5,131,800	457,450	4,830,800	30
2005 May	151,900	-	830,200	4,780,300	1,547,300	6,543,500	5,645,400	516,300	4,929,100	31
2005 June	216,100	-	1,070,300	5,706,300	1,413,500	7,274,900	6,102,100	495,050	5,773,700	30
2005 July	322,800	-	1,273,800	1,350,700	7,269,500	2,656,700	7,560,500	597,470	8,397,100	31
2005 August	501,200	-	1,454,600	-	7,271,100	2,621,900	7,703,700	-	9,137,900	30
2005 September	157,700	-	737,800	2,009,300	4,543,300	1,783,400	6,427,200	-	8,139,100	31
2005 October	413,700	-	148,700	5,786,200	3,363,800	1,190,300	5,131,500	-	5,709,800	30
2005 November	8,000	-	274,200	5,378,400	3,507,200	1,083,400	4,787,200	-	5,794,200	31
2005 December	610,200	-	67,000	3,337,100	4,154,300	1,208,400	5,850,200	-	7,164,300	30
2006 January	138,100	-	121,400	1,272,600	1,374,300	2,098,100	7,131,900	-	9,068,700	31
2006 February	332,700	-	-	2,628,700	1,604,500	2,682,900	6,791,200	-	8,229,500	28
2006 March	-	-	-	2,484,500	1,548,700	2,542,900	6,908,100	-	8,488,400	31
2006 April	-	-	-	1,984,600	1,232,600	2,029,700	6,288,400	-	8,013,700	30
2006 May	-	-	-	3,784,400	2,369,800	3,883,000	7,527,000	-	9,158,900	31
2006 June	91,000	-	-	3,663,600	2,382,400	4,440,100	7,111,900	-	8,969,900	30
2006 July	90,700	-	-	4,896,700	3,086,900	5,076,600	7,499,900	-	8,679,600	31
2006 August	76,100	-	351,200	4,607,500	2,799,800	4,754,400	7,443,900	-	9,346,400	30
2006 September	-	-	-	3,809,200	2,554,100	4,019,600	6,892,300	-	8,672,100	31
2006 October	362,300	-	812,600	2,384,600	1,848,700	2,417,300	6,150,400	-	8,928,900	30
2006 November	1,251,300	-	82,400	1,223,200	930,700	5,279,000	4,959,800	-	7,282,200	31
2006 December	-	-	1,239,500	7,526,800	1,138,600	1,235,100	5,061,800	-	7,752,000	30
2007 January	6,100	-	6,000	7,480,800	1,109,200	1,332,600	5,422,800	-	8,140,100	31
2007 February	-	-	-	6,719,000	1,011,400	1,134,600	4,562,800	-	7,161,300	28
2007 March	-	-	-	6,881,800	1,465,100	1,666,800	5,249,100	-	7,610,100	31
2007 April	239,200	-	243,700	4,366,600	2,137,700	1,602,000	5,709,100	-	7,565,000	30
2007 May	73,900	-	97,400	3,906,100	3,354,700	4,741,700	6,541,600	-	6,781,800	31
2007 June	-	-	-	3,129,500	1,945,100	6,511,600	5,733,100	-	8,285,300	30
2007 July	95,700	-	329,100	8,239,300	3,809,600	2,000,600	5,741,000	-	8,546,400	31
2007 August	-	-	-	3,101,600	3,557,900	6,201,500	5,597,500	-	7,943,300	30
										MAX
										39,600,700
										1,277,442
										1.98
										2.97
										3.95
										6.42
										8.90
										ADD (cfs)
										1.89
										2.84
										3.79
										6.15
										8.52
										PHD (cfs) low
										1.80
										2.70
										3.60
										5.85
										7.05
										8.10
										1.57
										2.35
										3.13
										5.09
										7.73
										1.72
										2.58
										3.43
										5.58
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										1.98
										2.97
										3.95
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										8.90
										ADD (cfs)
										1.74
										2.61
										3.48
										5.66
										7.84
										1.59
										2.39
										3.18
										5.17
										7.10
										5.13
										3.16
										2.37
										1.58
										1.43
										1.26
										1.89
										2.52
										4.10
										5.68
										4.63
										2.85
										2.14
										6.41
										920,823
										815,187
										924,517
										27,735,500
										31,612,100
										34,909,900
										31,363,100
										31,011,713
										7,05
										3.13
										3.60
										5.85
										8.10
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										7.72
										1.72



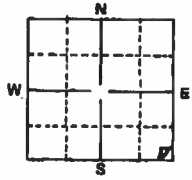
65-22663



65-22663

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer
within 30 days after completion or abandonment of the well.RECEIVED
N.H. MAY 10 1970
Department of Reclamation

1. WELL OWNER Name <u>City of Payette #11</u> Address <u>Payette, Idaho</u> Owner's Permit No. <u>65-7119</u>		7. WATER LEVEL Static water level <u>8' 6"</u> below land surface Flowing? ☐ Yes ☐ No Temperature <u> </u> ° F. Quality <u> </u> Artesian closed-in pressure <u> </u> p.s.i. Controlled by ☐ Valve ☐ Cap ☐ Plug																																																																													
2. NATURE OF WORK ☐ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe method of abandoning)		8. WELL TEST DATA ☒ Pump ☐ Bailer ☐ Other Discharge G.P.M. <u> </u> Draw Down <u> </u> Hours Pumped <u> </u>																																																																													
3. PROPOSED USE ☐ Domestic ☐ Irrigation ☐ Test ☒ Municipal ☐ Industrial ☐ Stock		9. LITHOLOGIC LOG <u>43954</u>																																																																													
4. METHOD DRILLED ☐ Cable ☒ REVERSE ☒ Rotary ☐ Dug ☐ Other		<table border="1"><thead><tr><th rowspan="2">Hole 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><u>20"</u></td><td><u>0</u></td><td><u>4</u></td><td><u>top soil</u></td><td></td><td></td></tr><tr><td><u>20"</u></td><td><u>4</u></td><td><u>34</u></td><td><u>sand and gravel</u></td><td></td><td></td></tr><tr><td><u>20"</u></td><td><u>34</u></td><td><u>98</u></td><td><u>sand and gravel</u></td><td></td><td></td></tr><tr><td><u>18"</u></td><td><u>98</u></td><td><u>114</u></td><td><u>blue clay</u></td><td></td><td></td></tr><tr><td></td><td><u>104</u></td><td><u>121</u></td><td><u>fine sand blue</u></td><td></td><td></td></tr><tr><td></td><td><u>121</u></td><td><u>124</u></td><td><u>sandy blue clay</u></td><td></td><td></td></tr><tr><td></td><td><u>124</u></td><td><u>138</u></td><td><u>blue sand stone some</u></td><td></td><td></td></tr><tr><td></td><td><u>138</u></td><td><u>154</u></td><td><u>clay</u></td><td></td><td></td></tr><tr><td></td><td><u>154</u></td><td><u>169</u></td><td><u>clay white and blue</u></td><td></td><td></td></tr><tr><td></td><td><u>169</u></td><td><u>188</u></td><td><u>white coarse sand</u></td><td></td><td>X</td></tr><tr><td></td><td></td><td></td><td><u>blue clay</u></td><td></td><td></td></tr></tbody></table>		Hole Diam.	Depth		Material	Water		From	To	Yes	No	<u>20"</u>	<u>0</u>	<u>4</u>	<u>top soil</u>			<u>20"</u>	<u>4</u>	<u>34</u>	<u>sand and gravel</u>			<u>20"</u>	<u>34</u>	<u>98</u>	<u>sand and gravel</u>			<u>18"</u>	<u>98</u>	<u>114</u>	<u>blue clay</u>				<u>104</u>	<u>121</u>	<u>fine sand blue</u>				<u>121</u>	<u>124</u>	<u>sandy blue clay</u>				<u>124</u>	<u>138</u>	<u>blue sand stone some</u>				<u>138</u>	<u>154</u>	<u>clay</u>				<u>154</u>	<u>169</u>	<u>clay white and blue</u>				<u>169</u>	<u>188</u>	<u>white coarse sand</u>		X				<u>blue clay</u>		
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5. WELL CONSTRUCTION Diameter of hole <u> </u> inches Total depth <u>186</u> feet Casing schedule: ☐ Steel ☐ Concrete Thickness <u>400</u> inches Diameter <u>20"</u> inches From <u>12'</u> feet To <u>138'</u> feet <u>10"</u> inches <u>10"</u> inches <u>12'</u> feet <u>157'</u> feet <u>10"</u> inches <u>10"</u> inches <u>172'</u> feet <u>186'</u> feet Was a packer or seal used? ☐ Yes ☐ No Perforated? ☐ Yes ☐ No How perforated? ☐ Factory ☐ Knife ☐ Torch Size of perforation <u> </u> inches by <u> </u> inches Number <u> </u> From <u> </u> To <u> </u> perforations <u> </u> feet <u> </u> feet perforations <u> </u> feet <u> </u> feet perforations <u> </u> feet <u> </u> feet Well screen installed? ☒ Yes ☐ No Manufacturer's name <u> </u> Type <u>Johnson</u> Model No. <u> </u> Diameter <u>10"</u> Slot size <u>25</u> Set from <u>157'</u> feet to <u>172'</u> feet Diameter <u> </u> Slot size <u> </u> Set from <u> </u> feet to <u> </u> feet Gravel packed? ☒ Yes ☐ No Size of gravel <u>2 1/2 and smaller</u> Placed from <u>8'</u> feet to <u>186'</u> feet Surface seal? ☒ Yes ☐ No To what depth <u>138'</u> feet Material used in seal ☒ Cement grout ☐ Puddling clay <u>30 mesh blum public bottom</u>																																																																															
6. LOCATION OF WELL Sketch map location must agree with written location.  County <u>Payette, Idaho</u> <u>SE 1/4 SE 1/4 Sec. 28, T. 9 N. R. 5 SW</u>		10. Work started <u>Jan 22</u> finished <u>Feb 17</u>																																																																													
		11. DRILLER'S CERTIFICATION This well was drilled under my supervision and this report is true to the best of my knowledge. <u>Cope Drilling</u> Driller's or Firm's Name <u> </u> Number <u>2</u> P.O. Box 1196..Idaho Falls, Idaho Address <u> </u> Signed By <u> </u> Date <u> </u>																																																																													

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

Well #11
105-72663

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

CORY

1. WELL OWNER

Name Dr. J. J. J. J. J.
Address 1234 Main St. N. W.
Owner's Permit No. _____

2. NATURE OF WORK

☐ New well ☐ Deepened ☒ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test
☐ Municipal ☐ Industrial ☐ Stock

4. METHOD DRILLED

☐ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 12 inches Total depth 174 feet
Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was a packer or seal used? ☐ Yes ☐ No
 Perforated? ☐ Yes ☐ No
 How perforated? ☐ Factory ☐ Knife ☐ Torch
 Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

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? ☐ Yes ☒ No To what depth 2.5 feet
Material used in seal ☒ Cement grout ☐ Puddling clay

7. WATER LEVEL

Static water level 22 feet below land surface
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
1170	30	2

9. LITHOLOGIC LOG

[illegible]

Well #12
65-22663

6. LOCATION OF WELL

Well #15

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.

COPY

[illegible]

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

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.

USE TYPEWRITER OR
BALLPOINT PEN

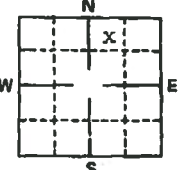
APR 19 1988

1. WELL OWNER Name <u>CITY OF PAYETTE</u> <u>26 south 9th P.O. Box 307</u> Address <u>Payette, ID 83661</u> Owner's Permit No. _____	7. WATER LEVEL Department of Water Resources Static water level <u>20</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 <u>68</u> °F. Quality _____ Describe artesian or temperature zones below _____																																																																																																						
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)	8. WELL TEST DATA ☒ Pump ☐ Bailor ☒ 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>pump 1000</td> <td>30</td> <td>12</td> </tr> <tr> <td>air 6000</td> <td>220</td> <td>90</td> </tr> </tbody> </table>	Discharge G.P.M.	Pumping Level	Hours Pumped	pump 1000	30	12	air 6000	220	90																																																																																													
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	11. DRILLERS CERTIFICATION I/We certify that all minimum well construction standards were complied with at the time the rig was removed. DALLAS DRILLING & 445 Firm Name <u>PUMP CO., INC.</u> Firm No. <u>224</u> <u>505 S. 18th</u> Address <u>Payette, ID 83661</u> Date <u>6/5/88</u> Signed by (Firm Official) <u>Johnny L. Goff</u> and <u>Johnny L. Goff</u> (Operator)																																																																																																						

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

Well #18
65-22663

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORTUSE TYPEWRITER OR
BALLPOINT PENState 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>City of Payette - Well # 19</u> Address <u>700 Center Ave. Payette Id. 83661</u> Drilling Permit No. <u>65-91-7-132</u> Water Right Permit No. <u>65-133-41</u>		7. WATER LEVEL Static water level <u>26</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 <u>61</u> °F. Quality _____ <i>Describe artesian or temperature zones below.</i>																																																																																											
2. NATURE OF WORK ☒ New well ☐ Deepened ☐ Replacement ☐ Well diameter increase ☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)		8. WELL TEST DATA ☒ Pump ☐ Bailor ☒ Air ☐ Other _____ <table border="1"><thead><tr><th>Discharge G.P.M.</th><th>Pumping Level</th><th>Hours Pumped</th></tr></thead><tbody><tr><td>2000 air</td><td>167-113</td><td>36</td></tr><tr><td>660gpm Pump</td><td>56-7</td><td>21.5</td></tr></tbody></table>		Discharge G.P.M.	Pumping Level	Hours Pumped	2000 air	167-113	36	660gpm Pump	56-7	21.5																																																																																	
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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>Dallas Drilling and Pump Co. Inc.</u> Firm No. <u>445</u> Address <u>505 South 18th St. Payette Id 83661</u> Date <u>2-11-92</u> Signed by (Firm Official) <u>[Signature]</u> and (Operator) <u>[Signature]</u>																																																																																													

USE ADDITIONAL SHEETS IF NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

Well #19
65-22663

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

7641008

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

1. DRILLING PERMIT NO. Tag # D0012878
Other IDWR No. WR 65-02785

2. OWNER:

Name City of Payette
Address 700 Center Av
City Payette State ID Zip 83661

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N
W
E
S
Twp. 9 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 27 S/W 1/4 S/E 1/4 S/W 1/4
Gov't Lot _____ County Payette
Lat: : : Long: : :
Address of Well Site approx. 350' North
of 7th Av N City Payette
(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 replacement

6. DRILL METHOD

☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other _____

7. SEALING PROCEDURES

SEAL/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Bentonite grout	20	90	32 sks		pumped
5/8 bentonite	0	20	20 sks		poured
#8-12 sand	90	125	7500#		poured

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
10"	2	97'6"	.365	steel	☒	☐	☒	☐
10"	117'10"	123'8"	.365	steel	☒	☐	☒	☐

Length of Headpipe 99'6" Length of Tailpipe 5'10"

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☒ Screens Screen Type Johnson V-wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
97'6"	117'10"	.35		10"	stainless	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

17'6" ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal. min.	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encountered _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
14	0	2	silty topsoil		X
	2	15	cemented silty sand		X
	15	25	cemented silty sand & gravel	X	
	25	45	sand & gravel	X	
	45	60	blue-gray sand & gravel	X	
	60	65	blue-gray sand & smaller gravel	X	
	65	97	lightly cemented sand & gravel	X	
	97	98	blue-black shale		X
	98	117 1/2	coarse sand, small gravel	X	
	117 1/2	121	blue clay		X
	121	125	cemented sand	X	

RECEIVED

JUN 14 2000

RECEIVED

JUN 07 2000

Department of Water Resources

WATER RESOURCES
WESTERN REGION

Completed Depth 123'10" (Measurable)

Date: Started 4/18/00 Completed 5/16/00

13. DRILLER'S CERTIFICATION

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

Firm Name Stevens & Sons Firm No. 153

Firm Official Ron Stevens Date 5/31/00

and Supervisor or Operator _____

(Sign Once as Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Well #20
65-22663

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

page 1 of 2

Location Corrected by IDWR To:

T09N R05W Sec. 26 SWNWSE

By: mciscell 2013-10-17

1. WELL TAG NO. D 18122

DRILLING PERMIT NO.

Other IDWR No. 65-22336

2. OWNER: City of Payette

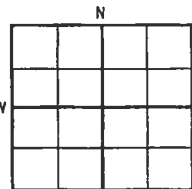
Name 700 Center Av.

Address Payette

City Payette State ID Zip 83661

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

Department of Water Resources
Twp. 9 North or South
Rge. 5 East or West
Sec. 26 S/E 1/4 N/E 1/4 S/W 1/4
Gov't Lot 44 5' County Payette 160 acres
Lat. 44 5' Long. 116 54'Address of Well Site 300-500' east of east
end of NE 16th av City Payette

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

Lt. 17 Blk. 3 Sub. Name Vistair Sub.

4. USE:

☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other test

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	
5/8 bent. chp	0	80	9000#	poured
grout	80	95	1300#	pumped
6-9 sand	95	180	4300#	poured

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
10"	+2 1/2'	105'	365	steel	☒	☐	☒	☐
10"	105	110	365	stnls st	☐	☐	☒	☐
10"	120	145	365	stnls st	☒	☐	☒	☐

Length of Headpipe Length of Tailpipe 10'

9. PERFORATIONS/SCREENS

Perforations Method

XX Screens Johnson Screen Type stnls V-wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
110	120	40		10"	stnls	☒	☐
145	165	40		10"	stnls	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

78' 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
RECEIVED			
AUG 21 2001			

Water Temp.

Water Quality test or comment

Bottom hole temp.

Depth first Water Encounter

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
16	0	5	lite broen silty loam		X
	5	15	lite brown clay		X
	15	20	med, brown fine sandy clay		
			with silt		X
5	20	25	med brown silty clay		X
	25	30	med brown silty clay with		
			stringer of coarse sand		X
	30	60	multicolor round coarse quartz		X
	60	66	finer sand with clay stringer		X
	66	75	brown sticky clay		X
	75	85	brown clay silty with fine sand		X
	85	95	white, gray, brown med & cse		
			sand	XX	
	95	100	black clay silt		X
	100	105	dk gray black hard silty clay		X
	105	110	dk gray silty clay, sand strgr		X
	110	115	gray & tan fine to cse sand	XX	
	115	120	gray & tan med to cse quartz	XX	
	120	135	dk black stiff-hard clay/silt		X
	135	140	dk gray stiff silty clay		
			with 1' sand stringer		X
	140	145	dk gray stiff silty clay		X
	145	165	white & gray med to cse		
			quartz-basalt	XX	
	165	170	dk gray silty clay		X
	170	175	dk gray stiff silty clay		
			with 1' sand stringer	XX	
	175	180	gray black clay silt		X
8	180	200	gray black stiff silty clay		X
	200	205	gray black hard silty clay		X
	205	220	gray black stiff clay, no silt		X
	220	225	gray black hard clay shale		X
	225	230	gray black shale, strngr med	XX	
			sand		
Completed Depth			(Measurable)		
Date: Started			Completed		

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 Firm No.

Firm Official Date

and

Driller or Operator Date

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Well # 21
65-22663

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only			
Inspected by _____			
Twp _____	Rge _____	Sec _____	
1/4 _____		1/4 _____	
Lat: _____	Long: _____	_____	
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian			

1. WELL TAG NO. D _____ page 2 of 2

DRILLING PERMIT NO. _____
Other IDWR No. _____

2. OWNER:

Name _____
Address _____
City _____ State _____ Zip _____

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N	
W	E
S	

Twp. _____ North ☐ or South ☐
Rge. _____ East ☐ or West ☐
Sec. _____ 1/4 _____ 1/4 _____ 1/4 _____
Gov't Lot _____ County _____
Lat: _____ Long: _____
Address of Well Site _____ City _____
(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		

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
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

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:

Yield gal/min	Drawdown	Pumping Level	Time

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment) Water

Bore Dia	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
	230	235	gray black shale, minor sand		X
	235	290	gray black shale, minor silt		X
	290	295	gray black hard silty clay		X
	295	305	gray black shale		X
	305	310	gray black shale, stringer fine to med sand	XX	
	310	315	gray black shale, trace sand		X
	315	322	gray black hard silty clay		X
	322	333	white & gray round quartz-basalt med to coarse sand	XX	
	333	355	dk gray hard silty clay		X
	355	360	gray black shale (hard clay)		X
	360	365	gray black stiff clay		X
	365	370	gray black shale, stringer med sand	XX	
	370	385	gray black shale, minor sand		X
	385	420	gray black shale (hard clay)		X
	420	430	gray black shale (hard clay)		X
	430	437	white, gray, black fine to med sand	XX	
	437	520	dk gray stiff to hard clay		X
			logged by Bill Strowd		
			backfilled to 180' with bentonite grout		
RECEIVED					
SEP 13 2001					
Department of Water Resources					
Completed Depth 175' (Measurable)					
Date: Started 5/10/01 Completed 7/30/01					

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 Stevens & Sons Firm No. 133Firm Official Ron Stevens Date 8/10/01

and

Driller or Operator _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

#21
65-22663

AMENDED LOG

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

1. WELL TAG NO. D 0029489
DRILLING PERMIT NO. 870354-774270
Water Right or Injection Well No. 65-22663

2. OWNER:
Name City of Payette WELL # 22
Address 700 Center Ave
City Payette State ID Zip 83672

3. LOCATION OF WELL by legal description:

You must provide address or Lot, Blk, Sub or Directions to well.

Twp. 9 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 34 NE 1/4 SW 1/4 NE 1/4
Gov't Lot _____
Lat: _____ Long: _____
Address of Well Site 1841 Decker Ln
City Payette

(Give at least 1 mile or 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

☒ New Well ☐ Modify ☐ Abandonment ☐ Other (Replacement etc.)

6. DRILL METHOD:

☒ Air Rotary ☐ Cable ☒ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal Material	From	To	Weight/Volume	Seal Placement Method
Bentonite	0	140	3250	Surface Casing over bore to 50'

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 16"-140"/10"-241"
Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
16	1	140	.375	Steel	☒	☐	☒	☐
6	149	230	.280	Steel	☒	☐	☒	☐
10	1.5	241	.365	Steel	☒	☐	☒	☐

Length of Headpipe 21.5 Length of Tailpipe 7'
Packer ☒ Y ☐ N Type Neoprene 6x10 K-Packer

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method TORCH
Screen Type & Method of Installation Wound Stainless Lowered

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
202	241	3/16x5	624	10"	Steel	☒	☐
170	223	.050		6"	Stainless Steel	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight/Volume	Placement Method
Natural Colorado Silica	140	240	18000	outer casing for tremy

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

42 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____

Office Use Only			
Well ID No. _____			
Inspected by _____			
Twp. _____	Rge. _____	Sec. _____	
1/4 _____		1/4 _____ 1/4 _____	
Lat: _____	Long: _____	_____	

12. WELL TESTS:

☒ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
Qir 1000+		240'	36 hr
Pump 630		70'	48 hr

Water Temp. 60° Bottom hole temp. _____

Water Quality test or comments: _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
24	0	28	Brown Clay		
24	28	50	Sand & Gravel		
16	50	65	Sand & Gravel		☒
16	65	69	Brown Silt		
16	69	80	Black Sand		
16	80	140	Very Coarse Black & White Sand		☒
10	140	241	Very Fine & Coarse Black & White Sand		☒

RECEIVED

MAR 16 2004

WATER RESOURCES
WESTERN REGION

Completed Depth 230 (Measurable)
Date: Started 5-14-03 Completed 3/4/04

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 Dallas Drilling Firm No. 445

Principal Driller Don L. Duff Date 3-15-04

Driller or Operator II _____ Date _____

Operator I _____ Date _____

Principal Driller and Rig Operator Required.

Operator I must have signature of Driller/Operator II.

Well #22
65-22663

FORWARD WHITE COPY TO WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

839521

Office Use Only
Well ID No. 409854
Inspected by _____
Twp _____ Rge _____ Sec _____
1/4 _____ 1/4 _____ 1/4 _____
Lat: _____ : _____ : _____ Long: _____ : _____ : _____

1. WELL TAG NO. D 0046471
DRILLING PERMIT NO. 874153-839521
Water Right or Injection Well No. 65-65-65-68-65-2785
65-5630; 65-7001

2. OWNER:
Name CITY OF PAYETTE
Address 700 CENTER AVENUE
City PAYETTE State ID Zip 83661

3. LOCATION OF WELL by legal description: WELL #23
You must provide address or Lot, Blk, Sub. or Directions to well.
Twp. 2 North ☒ or South ☐
Rge. 5 East ☐ or West ☒
Sec. 28 1/4 SE 1/4 SE 1/4
Gov't Lot _____ 10 acres _____ 40 acres _____ 160 acres _____
County PAYETTE
Lat: _____ : _____ : _____ Long: _____ : _____ : _____
Address of Well Site 7th AVE NORTH 150' NW of
RR CROSSING City PAYETTE
(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 REVERSE

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method
<u>BENTONITE</u>	<u>0</u>	<u>140</u>	<u>30,000</u>	<u>DRY POUR</u>

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
<u>16</u>	<u>+3</u>	<u>140</u>	<u>.375</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>12</u>	<u>135</u>	<u>145</u>	<u>.375</u>	<u>STEEL</u>	☒	☐	☒	☐
<u>12</u>	<u>160</u>	<u>190</u>	<u>.375</u>	<u>STEEL</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe 10'
Packer ☐ Y ☐ N Type K-PACKER (JOHNSON)

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____
Screen Type & Method of Installation JOHNSON WIRE WRAP

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>145</u>	<u>160</u>	<u>.060</u>		<u>12</u>	<u>S.S.</u>	☒	☐
<u>190</u>	<u>200</u>	<u>.060</u>		<u>12</u>	<u>S.S.</u>	☒	☐

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>#8-12 SAND</u>	<u>135</u>	<u>215</u>	<u>18,000</u>	<u>DRY POUR</u>

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

10 ft. below ground Artesian pressure _____ lb.
Depth flow encountered _____ ft. Describe access port or control devices: _____
1 1/2" PIPE ON SIDE

12. WELL TESTS:

Yield gal./min.	Drawdown	Pumping Level	Time
<u>600 gpm</u>	<u>57'</u>	<u>67'</u>	<u>3hr</u>

Water Temp. _____ Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter _____

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
<u>24</u>	<u>0</u>	<u>4</u>	<u>TOP SOIL</u>		
	<u>4</u>	<u>36</u>	<u>SAND, LG GRAVEL</u>		
	<u>36</u>	<u>89</u>	<u>FINE-MED SAND, SOME COARSE</u>		
	<u>89</u>	<u>95</u>	<u>BLUE CLAY</u>		
	<u>95</u>	<u>125</u>	<u>FINE-MED SAND</u>		
	<u>125</u>	<u>137</u>	<u>BLUE CLAY, SILTSTONE</u>		
	<u>137</u>	<u>160</u>	<u>FINE-COARSE BLUE SAND</u>		
	<u>160</u>	<u>175</u>	<u>BLUE CLAY</u>		
	<u>175</u>	<u>177</u>	<u>FINE SAND</u>		
	<u>177</u>	<u>180</u>	<u>BLUE CLAY</u>		
	<u>180</u>	<u>183</u>	<u>FINE SAND</u>		
	<u>183</u>	<u>188</u>	<u>BLUE CLAY</u>		
	<u>188</u>	<u>191</u>	<u>SANDSTONE</u>		
	<u>191</u>	<u>193</u>	<u>MED SAND</u>		
	<u>193</u>	<u>198</u>	<u>MED-COARSE SAND</u>		
	<u>198</u>	<u>202</u>	<u>BLUE CLAY</u>		
	<u>202</u>	<u>204</u>	<u>FINE SAND</u>		
	<u>204</u>	<u>215</u>	<u>BLUE CLAY w/ FINE SAND STREAKS</u>		

RECEIVED

JUN 22 2006

WATER RESOURCES
WESTERN REGION

Completed Depth 210' (Measurable)
Date: Started 5-2-06 Completed 6-20-06

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 RIVERSIDE INC Firm No. 333

Principal Driller _____ Date _____
and _____
Driller or Operator II _____ Date 6-20-06

Operator I Jeff Hosh Date 6-20-06

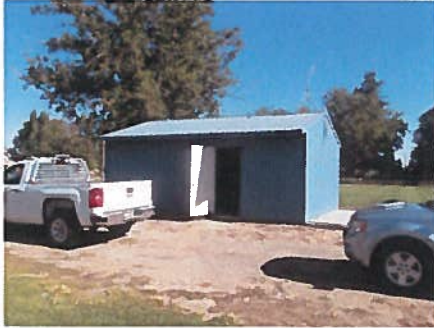
Principal Driller and Rig Operator Required.
Operator I must have signature of Driller/Operator II.

FORWARD WHITE COPY TO WATER RESOURCES

Well #23
65-22663

PHOTOGRAPHER AND DATE OF PHOTOS ASHLEY NEWBRY • August 24, 2016

FILE NUMBER 65-22663 CITY OF PAYETTE



This is **Well 23**, located near the corner of 7th Avenue N. and N. 9th Street. Two wells are located on the City parcel, but only Well 23 is currently active. At this location, **Well 11** has been capped and decommissioned. Well 23 was not pumping at the time of the exam. The well typically operates at 200 or 250 GPM.



This is **Well 20**, located down a private drive off of 7th Avenue N. The private drive is approximately 850 feet east of US Hwy 95. **Well 8** is also located on this City parcel, but it has been decommissioned and capped. Well 20 was pumping about 180 GPM (0.40 cfs) at the time of the exam. The well typically operates at 190 to 200 GPM.



This is **Well 18**, located approximately 800 feet south of the City Fire Station (US Hwy 95 & 7th Avenue N). The pump liner was extracted and stored outside the well house. Jake mentioned that the pump was in need of repair or replacement. The pump is typically set at a depth of 200 feet and diverts up to 250 GPM.

65-22663



This is **Well 19**, the point of diversion for 65-22663. This well is located near the southeast corner of the City Fire Station property—only 775 feet north of Well 18. Over the years, the pump has been set at a variety of depths: 205 feet, 163 feet, 200 feet, and 148 feet. According to well house records, the pump typically produces 200 to 300 GPM.



This is **Well 22**, located at 1900 Decker Drive in Payette. Well 22 was put into service in December of 2004. The well is drilled to a depth of approximately 241 feet, but the pump is set at 126 feet. The well produces 250 GPM. At the time of the exam, this well was delivering 230 GPM to the distribution system.



This is **Well 9**, located on N 21st Street, near the intersection of N 21st and Center Avenue. Well 9 went online in August 1996. Jake explained that Well 9 is used only as a backup well. The City closed the valve from the well to the distribution system in 2012, and it hasn't been opened since. This well will produce 300 GPM but is typically throttled down to 250 GPM. This well site used to house either **Well 10 or 14** (records unclear).



This is **Well 15**, located on N Iowa Avenue, across the street from Payette Middle School. Well 15 came into service in 1981. From the well house records, I noticed that the pump has been historically replaced every 2-4 years, often with similar style/horsepower models. Since its beginning, the well has seen many pumps. During the development period, the well often produced 220 to 250 GPM. At the time of the field exam, the well was producing 220 GPM.



This is **Well 12**, the second of the City's two backup wells. Well 12 is located on S Iowa Avenue, just north of the intersection of 1st Avenue S and Iowa Ave. This well came online in September 2000. The pump is set at approximately 131 feet, but the well is drilled to just over 166 feet. When in use, it will produce 250 GPM.



These are the **20th Street reservoirs**, located near the intersection of 20th Street and Hyland Drive. This site holds two reservoirs which are operated in parallel; their level rise and fall together. The square reservoir was built circa 1905 and has a capacity of 400,000 gallons. The newer circular reservoir was constructed in the early 2000s and has a 1 million gallon capacity. Though we did not visit the site, we could also see **Clay Peak reservoir** near the south end of Iowa avenue up on the hill (Clay Peak). It has a capacity of 1.2 million gallons.



State of Idaho

DEPARTMENT OF WATER RESOURCES

322 East Front Street • P.O. Box 83720 • Boise, Idaho 83720-0098

Phone: (208) 287-4800 • Fax: (208) 287-6700 • Website: www.idwr.idaho.gov

C.L. "BUTCH" OTTER
Governor

GARY SPACKMAN
Director

July 20, 2016

CITY OF PAYETTE
ATTN: WATER DEPT
700 CENTER AVE
PAYETTE ID 83661

RE: Water Permit No. 65-22663

Request to Schedule Water Right Field Examination

Dear Permit Holder:

I am currently working toward issuing a license for your Water Permit 65-22663. When licensing a permit for municipal use for an incorporated City, the extent of beneficial use established should be determined based on installed capacity developed and operational during the development period of the permit and cannot exceed the amount permitted. In order to make this determination, a field exam must be conducted.

The first step toward determination of the additional increment of beneficial use associated with Water Permit 65-22663 is my request for diversion records from your Water Department. I will need well pumping volumes and/or rates to the greatest frequency (monthly, weekly, daily, etc.) that you measured on each well from April 12, 2002 to July 11, 2007. This span of time represents the development period of Water Permit 65-22663.

The more precise the data submitted, the greater the ability for me to tailor the license to fit your system needs. If you have maintained a SCADA system throughout the development period, you may also wish to provide the following for each year during the permit development period:

- total annual volume
- the maximum day volume
- maximum instantaneous rate of flow diverted from the point of diversion authorized for this permit (Township 09N, Range 05W, Section 34, NESWNE, Payette County)
- maximum instantaneous rate of diversion across the system

The second half of your field examination process is the field exam (site inspection) itself. I am contacting you now in an effort to schedule a time to conduct the required field examination.

Please contact me by August 3, 2016 to make arrangements for a field examination to be conducted on your diversion system. IDWR may void your permit if no response is received. Please contact me by telephone at 208-287-4846 or by email at ashley.newbry@idwr.idaho.gov.

Respectfully,

Ashley Newbry, PE
Staff Engineer