

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-21243

Exam Date: 10/6/2011

1. Current Owner: CITY OF CAREY
20482 MAIN ST
PO BOX 9
CAREY ID 83320
(208) 823-4045
2. Accompanied by: Bob Simpson
Phone No: 208-309-0319
Address: PO Box 9
Carey, ID 83320
Relationship to Permit Holder: Water Superintendent

3. **SOURCE**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-7766, 37-21355, 37-20384 and 37-22661
2. Other water rights with the same point of diversion: 37-22661

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

GROUND WATER

NW1/4NE1/4

Sec. 27, Twp 01S, Rge 21E, B.M.

BLAINE County

Method of Determination:

Updated to GPS points from spatial data layer collected by staff.

2. **PLACE OF USE:** MUNICIPAL

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

Method of Determination:

Place of use is described from a service area map that was submitted with Transfer 71537 (37-7766 adding a point of diversion). Bob Simpson has stated that this is the most current map for the city of Carey service area. (see attached corrected map)

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>
D0030213		50 HP			8 inch pipe

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>
Portaflow	Polysonic	FUJI		240332		8/2/2011

2. Measurements:

On 8/2/2011, Cindy Yenter conducted a flow measurement of well # 3. This measurement indicated that well # 3 has a capacity of 922 gpm, or 2.05 cfs.

E. FLOW CALCULATIONS X Additional Computation Sheets Attached**Measured Method:**

N/A

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:

Plot map of 94 lots at 0.6 AF(IDWR standard) per lot.

$$94 \text{ lots} \times 0.6 \text{ AF} = 56.4 \text{ AF}$$

G. NARRATIVE/REMARKS/COMMENTS

Permit 37-21243 is for municipal use for the city of Carey. This is the third of four permits for the city of Carey. There are three wells for the municipal system with a total rate of 4.75 cfs at full system capacity. Wells #2 (1.95 cfs) and #3(2.05 cfs) are the primary wells and well #1(0.75 cfs) is the backup. The first two permits (37-20384 and 37-21355) were developed under well #1 and well #2 and will be licensed for their full system capacity (2.70 cfs) with no volume limits. The third and fourth permits (37-21243 and 37-22661) were developed under well #3.

Permit 37-21243 authorizes the diversion of up to 0.6 cfs from well #3. On 8/2/2011, Cindy Yenter conducted a flow measurement of well # 3. This measurement indicated that well # 3 has a capacity of 992 gpm, or 2.05 cfs but exceeds the limits of the permit. **Recommended flow rate of 0.6 cfs.**

This permit was originally developed for a subdivision but was assigned to the city of Carey and stubbed into the municipal system at the time proof was filed. The third license will be limited to in-house use and the IDWR standard volume of 0.6 AF per lot (94 lots) for the original subdivision. **Recommended volume 56.4 AF (94 lots x 0.6 AF= 56.4 AF).**

Recommended place of use is the City of Carey and surrounding service area.

After licensing of all four permits, the city will file for a transfer to combine all water rights (37-7766, 37-20384, 37-21355, 37-21243 and 37-22661) within the entire municipal system.

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	0.600 CFS	56.4 AF
<u>Totals:</u>		0.600 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 Jana Reeder Date 3/22/12

Reviewer [Signature] Date 3/22/12

Corrected Map for

Transfer No. 71537

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

RECEIVED

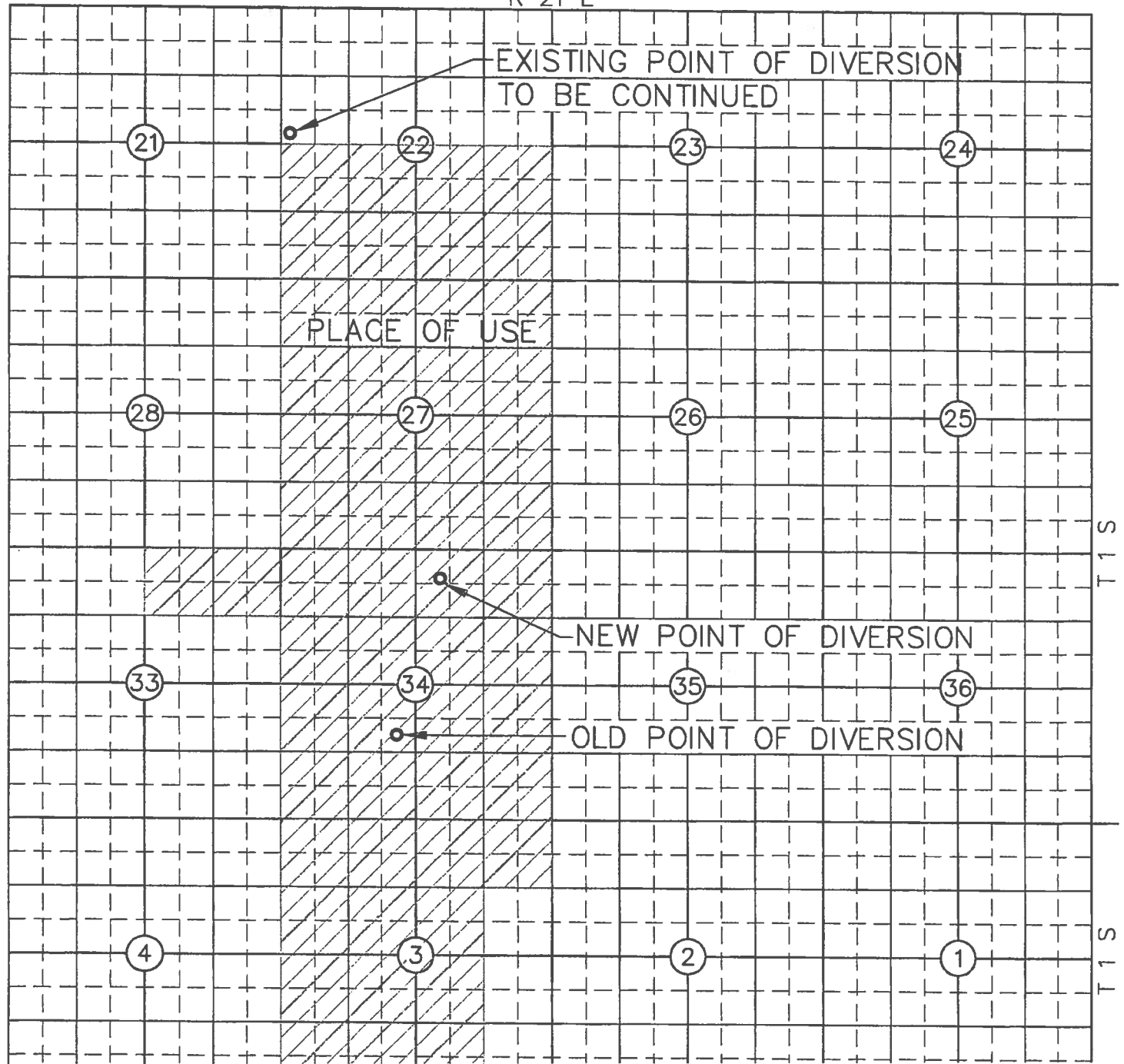
OCT 28 2004

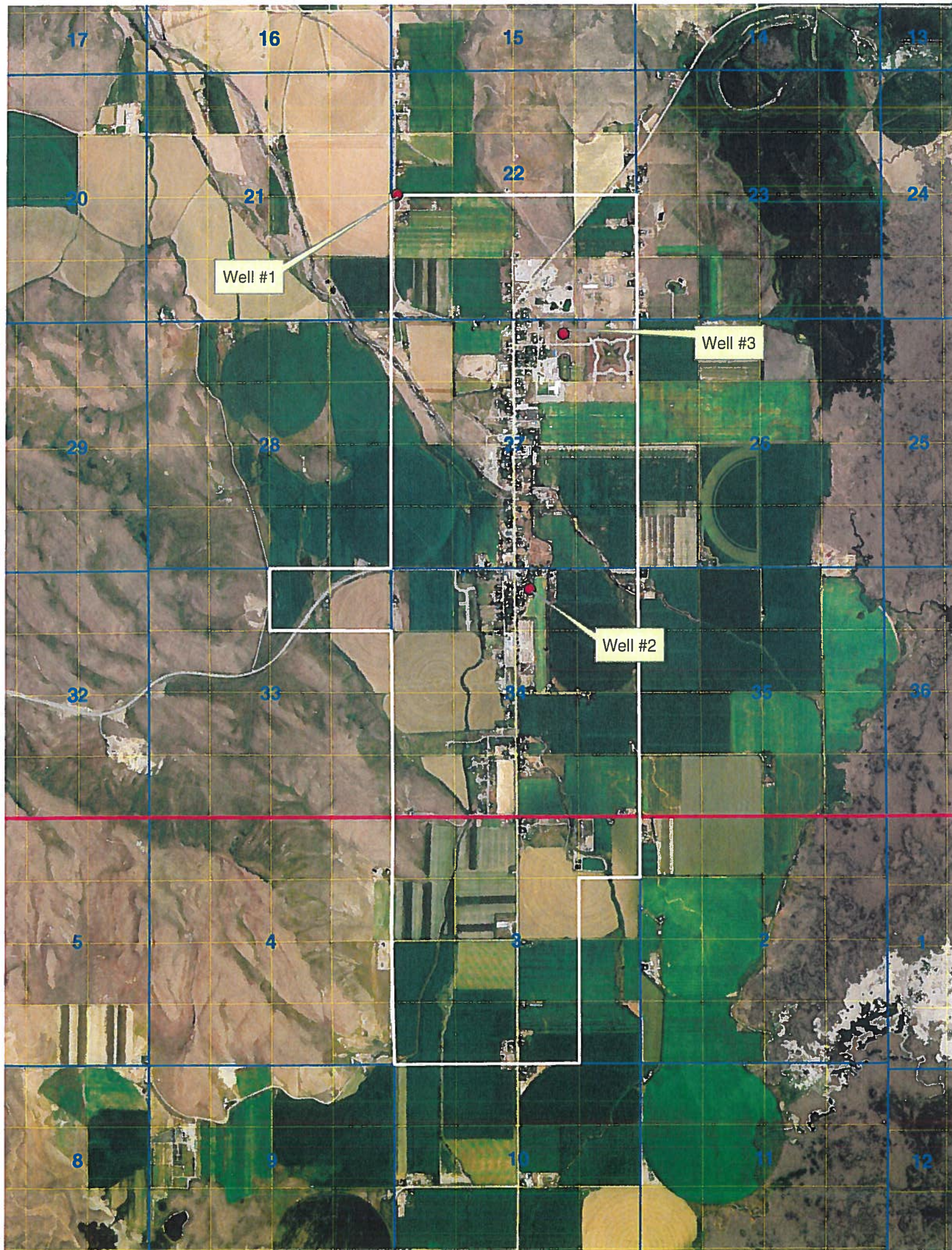
APPLICATION FOR TRANSFER OF WATER RIGHT
PART 3

Department of Water Resources
Southern Region

A. Draw a map or attach a USGS map indicating the new point(s) of diversion and/or the new place of use for the rights described in part 1. Clearly depict the land by section, township and range number.

R 21 E





Wells #1 & 2

7766 (L) 0.71

20384 (P) 0.70

21355 (P) 1.37

2.78

meas #1 = 0.75

meas #2 = 1.95

capacity 2.70 cfs

(-0.08 = 1.29 cfs)

Well #3 (sec 27) Waterford meas = 2.05

21243 (P) 0.6

22661 (P) 1.45

2.05

(Limit to inhouse use .6 per lot for subdivision.)

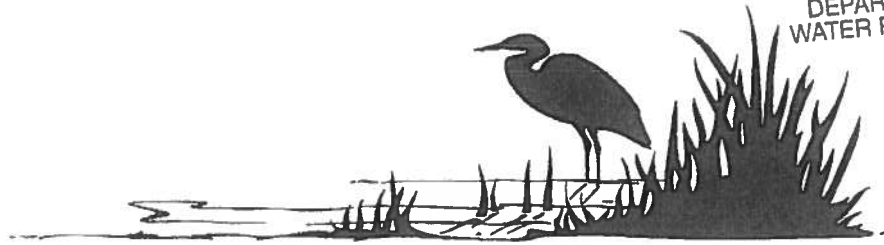
Use 2 & 3 Well 1 is back up.

Total Flow
4.75

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JAN 27 2012

DEPARTMENT OF
WATER RESOURCES



CITY OF CAREY, IDAHO

Public Works Department

20482 Main Street, PO Box 9, Carey, Idaho 83320

(w) 208-823-4045 (f) 208-823-4171

careywater@frontier.com

25 January 2012

Idaho Department of Water Resources
PO Box 83720
Boise ID 83720-0098

Re Wr 37-22661 Item 13 deficiency items on completion form

The application for this water right is in addition to the .60 CFS of WR 37-21243.

In April we conducted the DEQ required 24 hr test on this new water source this was through a 12" 90 degree v notch weir at this time there was no flow meter installed on the system. At this time the well pumped approximately 2.0 CFS with a draw down of 40 ft.

In May the flow meter was installed and we started using this well as a part of the city's system. On October 2nd Cindy Yenter Watermaster 130 conducted the certification of the flow meter. At this time the well pumped 922 GPM / 2.05 CFS this is where we came up with requirement of 1.45 CFS plus the .60 CFS of WR 37-21243 to match what this well is pumping at full rate.

Attached are the test results from the IDWR testing and the test data from the 24 hr required DEQ testing and our summary report that was submitted to WD 130 the end of the year

If you have any questions are require additional information, please contact me at (208) 309-0319.

Sincerely,

Robert Simpson
Public Works Director

CITY OF CAREY - WELL 3 (WATERFORD)
MAX FLOW CONDITION

LOG NAME:D00030213
START :08-02 13:00
END :08-02 13:10
INTERVAL:00:01:00

8/2/2011 13:00
+5.828E+0 ft/s
+9.245E+2 gal/m
+TOTAL 0000000 gal
NORMAL

8/2/2011 13:06
+5.774E+0 ft/s
+9.159E+2 gal/m
+TOTAL 0005531 gal
NORMAL

8/2/2011 13:01
+5.935E+0 ft/s
+9.415E+2 gal/m
+TOTAL 0000906 gal
NORMAL

8/2/2011 13:07
+5.785E+0 ft/s
+9.178E+2 gal/m
+TOTAL 0006454 gal
NORMAL

8/2/2011 13:02
+5.797E+0 ft/s
+9.197E+2 gal/m
+TOTAL 0001833 gal
NORMAL

8/2/2011 13:08
+5.840E+0 ft/s
+9.265E+2 gal/m
+TOTAL 0007377 gal
NORMAL

8/2/2011 13:03
+5.819E+0 ft/s
+9.231E+2 gal/m
+TOTAL 0002758 gal
NORMAL

8/2/2011 13:09
+5.807E+0 ft/s
+9.212E+2 gal/m
+TOTAL 0008299 gal
NORMAL

8/2/2011 13:04
+5.772E+0 ft/s
+9.157E+2 gal/m
+TOTAL 0003683 gal
NORMAL

8/2/2011 13:10
+5.794E+0 ft/s
+9.191E+2 gal/m
+TOTAL 0009220 gal
NORMAL

8/2/2011 13:05
+5.879E+0 ft/s
+9.327E+2 gal/m
+TOTAL 0004606 gal
NORMAL

922.00 GPM
2.05 CFS

**CITY OF CAREY WELL #1
A0004263
2011 MONTHLY SUMMARY**

COPY

DATE	METER READING	GALLONS PUMPED	GPD	GPM per Day	MGPM	MGPD	ACRE FT / MO	DEPTH STATIC	DEPTH DYNAMIC
12/31/10	349700								
01/31/11	359510	981000	31645	22	0.981	0.032	3.01	73.08	
02/28/11	370220	1071000	38250	27	1.071	0.038	3.29	79.20	
03/31/11	382230	1201000	38742	27	1.201	0.039	3.69	86.30	
04/29/11	393200	1097000	37828	26	1.097	0.038	3.37	74.08	
05/31/11	398550	535000	16719	12	0.535	0.017	1.64	41.00	
06/30/11	400080	153000	5100	4	0.153	0.005	0.47	31.54	
07/31/11	400090	1000	32	0	0.001	0.000	0.00	30.50	
08/31/11	400160	7000	226	0	0.007	0.000	0.02	33.17	
09/30/11	400160	0	0	0	0.000	0.000	0.00	43.00	
10/31/11	400264	10400	335	0	0.010	0.000	0.03		
11/30/11	400266	200	7	0	0.000	0.000	0.00	48.45	
12/30/11	400266	0	0	0	0.000	0.000	0.00	54.15	
		5056600			5.06		15.52		

gal x 100

CITY OF CAREY WELL #2
D0034183
2011 MONTHLY SUMMARY

DATE	METER READING	GALLONS PUMPED	GPD	GPM per Day	MGPM	MGPD	ACRE FT / MO	DEPTH STATIC	DEPTH DYNAMIC
12/31/10	626590								
01/30/11	627580	99000	3300	2	0.099	0.003	0.30	61.90	81.20
02/28/11	629820	224000	7724	5	0.224	0.008	0.69	66.60	85.20
03/31/11	631370	155000	5000	3	0.155	0.005	0.48	73.80	
04/30/11	631610	24000	800	1	0.024	0.001	0.07	67.90	
05/31/11	653420	2181000	70355	49	2.181	0.070	6.69	43.10	
06/30/11	695590	4217000	140567	98	4.217	0.141	12.94	33.90	
07/31/11	768200	7261000	234226	163	7.261	0.234	22.28	28.10	
08/31/11	832460	6426000	207290	144	6.426	0.207	19.72	28.10	
09/09/11	848010	1555000	172778	120	1.555	0.173	4.77		
09/30/11	277	277000	13190	9	0.277	0.013	0.85	30.80	52.60
10/31/11	305	28000	903	1	0.028	0.001	0.09	38.30	
11/30/11	384	79000	2633	2	0.079	0.003	0.24	45.10	
12/31/11	765	381000	12290	9	0.381	0.012	1.17	51.40	
		22907000			22.91		70.30		

*gal X 100
1.07 cal. Factor*

12.71 AF

install new mag meter

2.33 AF

*gal X 1000
.99 cal factor*

*TOTAL
75.04 AF*

CITY OF CAREY WELL #3
D0030213
2011 MONTHLY SUMMARY

DATE	METER READING	GALLONS PUMPED	GPD	GPM per Day	MGPM	MGPD	ACRE FT / MO	DEPTH STATIC	DEPTH DYNAMIC
12/31/10									
01/31/11									
02/28/11									
03/31/11									
04/08/11		1500000	187500	130	1.500	0.188	4.60	95.70	
05/31/11									est amt DEQ req 24 hr test plus pump testing
06/30/11	473	473000	15767	11	0.473	0.016	1.45	63.40	
07/31/11	860	387000	12484	9	0.387	0.012	1.19	58.50	
08/31/11	1643	783000	25258	18	0.783	0.025	2.40	74.40	
09/30/11	3469	1826000	60867	42	1.826	0.061	5.60	79.70	
10/31/11	5292	1823000	58806	41	1.823	0.059	5.59	83.70	
11/30/11	6503	1211000	40367	28	1.211	0.040	3.72	88.80	
12/31/11	7467	964000	31097	22	0.964	0.031	2.96	95.50	
		8967000			8.97		27.52		

CAREY WELLS YEARLY TREND

1999-2011

	Well #1	Well #2	Well #3	Total	Percent of Past year	Percent of 12 yr avg	Total A.F.
	Mil Gal/Yr	Mil Gal/Yr	Mil Gal/Yr	Mil Gal			
1999	52.52			52.52		98%	161.17
2000	62.36			62.36	119%	116%	191.37
2001	60.59			60.59	97%	113%	185.94
2002	58.51			58.51	97%	109%	179.55
2003	63.01			63.01	108%	117%	193.37
2004	53.09			53.09	84%	99%	162.92
2005	57.26			57.26	108%	106%	175.71
2006	47.91	13.39		61.30	107%	114%	188.13
2007	14.93	53.36		68.29	111%	127%	209.57
2008	9.40	43.09		52.49	77%	98%	161.09
2009	10.77	27.90		38.67	74%	72%	118.69
2010	9.61	24.91		34.52	89%	64%	105.93
2011	5.06	22.91	8.97	36.94	107%	69%	113.37
total				699.53			
average				53.81			

S89°51'13"E 1345.52'

22723
27426

Proposed Domestic Water Distribution System Follows Roadways

Proposed Points of Diversion
(up to 2 wells

T.L. 7182
ARRIAGA

530°54'48"E 1004.63'

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DEC 15 2003

Department of Water Resources
Southern Region

**S00°01'24"W
1333.49'**

500°01'24"W
1333.50'

DEVELOPMENT PHASE 2
MIRRORS ABOVE SECTION OF PHASE 1
(APPROXIMATELY)

N89°50'53"W
1341.93'

N89°50'53"W 1341.93'

1353.38' \$00°07'53"E

LOT 1
BLOCK 1
CAREY SCHOOL SUBDIVISION

BLOCK 2

BLOCK 1

SECOND SOUTH STREET
(VACATED)

SECOND SOUTH STREET
(VACATED)

BLOCK 11

BLOCK 12

PANTHER STREET

M ST.

FIRST EAST STREET

10

1

App 881017

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

1. WELL TAG NO. D 0030213
 DRILLING PERMIT NO. 810554
 Water Right or Injection Well No. 37-21243

2. OWNER:
 Name Waterford Partners III, LLC
 Address P.O. Box 2477
 City Hailey, State ID Zip 83333

3. LOCATION OF WELL by legal description:

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

Twp. 01 North ☐ or South ☒
 Rge. 21 East ☒ or West ☐
 Sec. 27 NE 1/4 NW 1/4 NE 1/4
 Gov't Lot _____ County Blaine

Lat: _____ Long: _____
 Address of Well Site Carey Lake Drive + 200's,
1/4 mile East of Hailey City Carey
(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 Material	From	To	Weight / Volume	Seal Placement Method
Bentonite Grout	80	67	1300 lbs.	Pre-mix
Bentonite Chys	67	0	1000 lbs.	Dry pack, then hydrated
Was drive shoe used?	☒ Y	☐ N	Shoe Depth(s) <u>22.7 - 228'</u>	
Was drive shoe seal tested?	☒ Y	☐ N	How? <u>N/A</u>	

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
14"	+ 2	228	.375	Steel	☒	☐	☐	☐
10"	196	261	.365	Steel	☐	☒	☐	☐

Length of Headpipe 4' Length of Tailpipe 2' (lower set)
 Packer ☐ Y ☒ N Type Flared drive head, 12.9"
reinforced steel.

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method torchScreen Type & Method of Installation N/A

From	To	Size	Number	Diameter	Material	Casing	Liner
230	260	3/16"	200	8"	Steel	☐	☒
198	230	3/16"	150	8"	Steel	☐	☒

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method
<u>N/A</u>				

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

67 ft. below ground Artesian pressure _____ lb.
 Depth flow encountered _____ ft. Description of access point 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 ☒ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
<u>50</u>	<u>0</u>	<u>67</u>	<u>30 min</u>
<u>985</u>	<u>81</u>	<u>148</u>	<u>6 hrs</u>

Water Temp. 51°F Bottom hole temp. 51°F

Water Quality test or comments: apparently good, clear,
cool, odorless, tasteless Depth first Water Encounter 56'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
24	0	3	Soil w/ gravel, some cobbles		X
24	3	19	Coarse gravel, some cobbles w/ grey sandy clay		X
18	19	48	same as above		X
18	48	79	Sand & gravel w/ grey sandy clay	X	
14	79	135	Gravel w/ sand, some clay and cobbles	X	
14	135	197	Lt. brn sandy clay w/ gravel	X	
14	197	163	Weakly cemented sandstone w/ clayey sand (brown)	X	
14	163	205	Brown sandy clay w/ gravel	X	
14	205	228	Weakly cemented sand & gravel	X	
14	228	234	Gravel & sand, truck clay	X	
14	234	258	Basalt, dark gray, hard	X	
10	258	261	Coarse sand & gravel	X	
10	261	264	Weakly cemented clayey sandstone	X	
10	264	275	Strongly cemented silt/clay conglomerate	X	
10	275	292	Brown grey sandy clay w/ gravel	X	
10	292	293	Coarse gravel	X	

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OCT 26 2004

Department of Water Resources
Southern RegionCompleted Depth 292 (Measurable)Date: Started 7/5/04 Completed 10/19/04

14. DRILLER'S CERTIFICATION

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

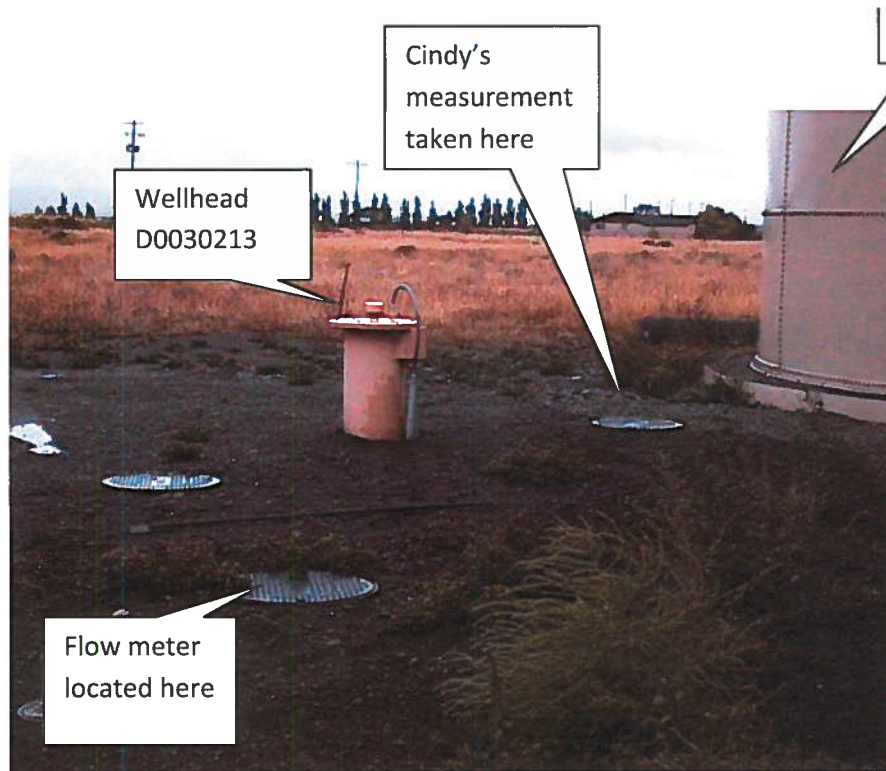
Company Name Stan Lloyd Drilling LLC Firm No. 294

Principal Driller Alan Lloyd Date 10/23/04
 and _____ Date _____
 Driller or Operator II _____ Date _____

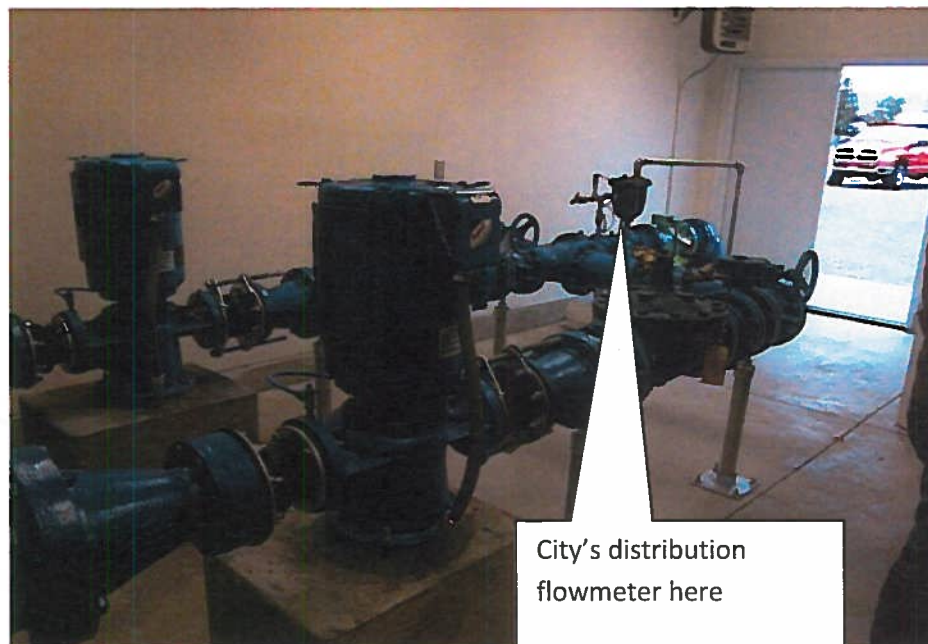
Operator I _____ Date _____

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

FORWARD WHITE COPY TO WATER RESOURCES



Storage tank



City's distribution flowmeter here



Lots stubbed in at time proof was filed