

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No.

1. Owner: City of Nampa, Idaho 63-12543 Phone No. 208.468.5420

Current Address: 411 Third street South, Nampa, Idaho 83651

2. Accompanied by: Kevin Boggs EXAM DATE: 01/09/2008

Address: 322 E. Front street, STE 200 Phone No 208.383.6108
BOISE, ID 83702

Relationship to Permit Holder: CONSULTANT

3. Source: Groundwater tributary to

B. OVERLAP REVIEW

1. Other water rights with the same place of use: None

2. Other water rights with the same point of diversion: None

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

Ident No.	Gov't Lot	1/4	1/4	1/4	Sec.	Twp.	Rge.	County	Method of Determination/Remarks
Well 13	lot 2 block 1 "Idaho Center"	SE	SW		7	03N	01W	Canyon	Canyon County Parcel records

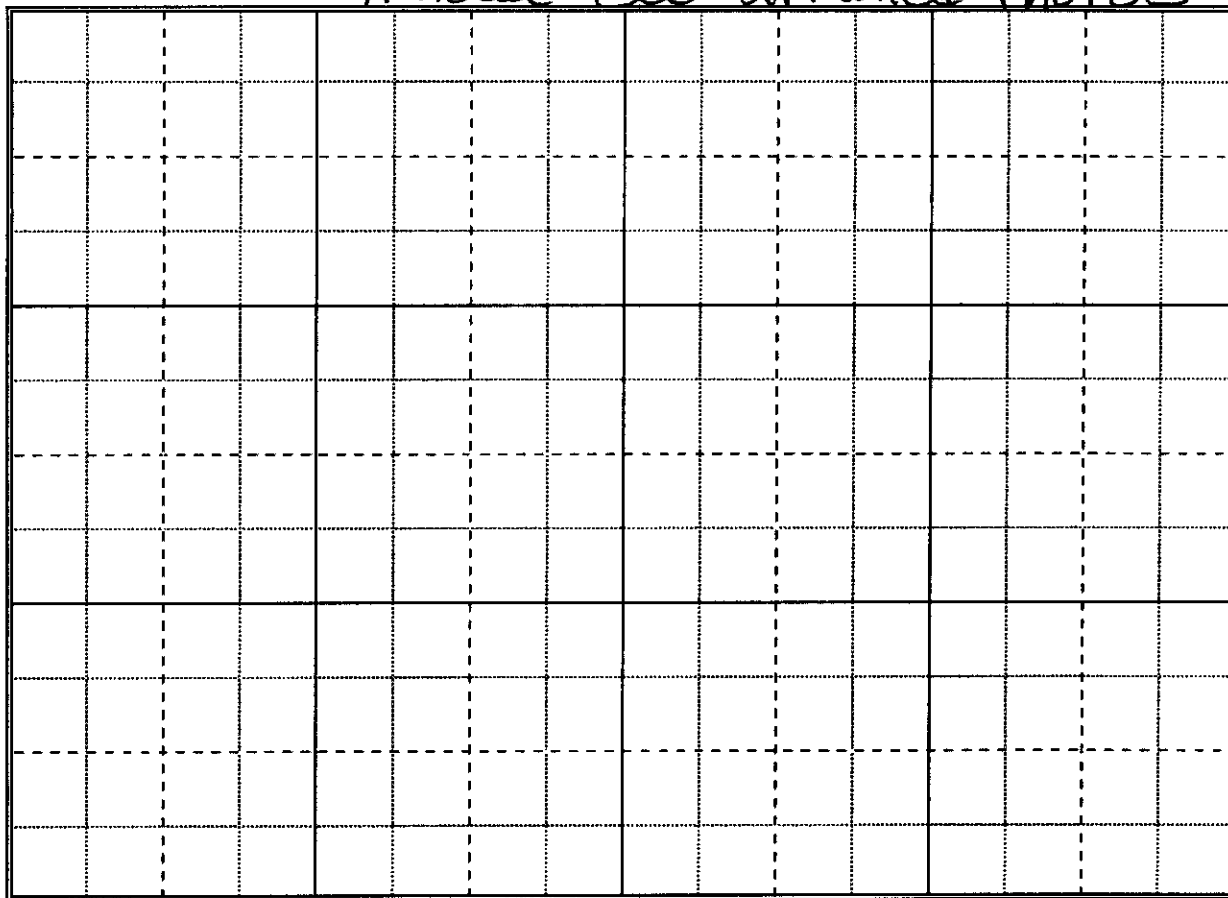
2. Place(s) of Use: Within the boundaries of the City of Nampa Indicate Method of Determination Records Review

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

~~* Please See Attachment A.~~

3. **Delivery System Diagram:** Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable.

** Please see attached photos.*



Scale: 1" = _____

_____ Copy of USGS Quadrangle Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

_____ Aerial Photo Attached (required for irrigation of 10+ acres)

_____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
WELL 13	Floway*	200 460V	EPH-AAG8A-M 05	14DKM	43478-1
	* Please see Attachment A (Pump curve for this pump)				
	* 4 stages of bowls; 1784 RPM				

*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
* Please see Attachment A. All units are gallons.						

2.

Measurements:

E. NARRATIVE/REMARKS/COMMENTS

City of Nampa staff indicate the records in Attachment A are numbers (in gallons) for water pumped into the City's distribution system. The values for well 13 are relatively sporadic because the city was attempting to optimize treatment of the water from Well 13 in 2001.

The pump installed in well 13 in 2001 was capable of producing well over the City's permitted discharge right of 4 cfs. Records from pump development and aquifer step testing indicate well 13 was fully capable of producing over 4 cfs, with drawdown not exceeding 60 feet.

For the purposes of this analysis, the system pressure was assumed to be, on average, 53 PSI (based on a review of city pressure records).

Based on these data, and on interviews with City staff, the city pumped well 13 at 4 cfs before September 24, 2001.

Have conditions of permit approval been met? ☒ yes ☐ no

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method: Records review

G. VOLUME CALCULATIONS

N/A

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:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
<u>Municipal</u>	<u>1/01</u>	<u>12/31</u>	<u>4.0</u>	<u>N/A</u>

Totals: 4.0 cfs

2. Recommended Amendments

N/A

___ 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 Kevin Boggs Date 01/09/2008

Reviewer _____ Date _____

SEAL



Well #13

IDAHO DEPARTMENT OF WATER RESOURCES

Water Permit Report 63-12543

WATER RIGHT NUMBER: 63-12543

Owner Type Name and Address
Current Owner CITY OF NAMPA
 411 3RD ST S
 NAMPA, ID 83651
 (208) 463-2270

Priority Date: 07/30/1999

Basis:

Status: Active

Source Tributary

GROUND WATER

<u>Beneficial Use</u>	<u>From</u> <u>To</u>	<u>Diversion Rate</u>	<u>Annual Volume</u>
MUNICIPAL	1/01 to 12/31	4.000 CFS	
	<u>Total Diversion:</u>	4.000 CFS	

Location of Point(s) of Diversion

GROUND WATER SE1/4SW1/4 Sec. 7, Twp 03N, Rge 01W, B.M.
 CANYON County

Place of Use

Conditions of Approval:

1. 046 Right holder shall comply with the drilling permit requirements of Section 42-235, Idaho Code.
2. 102 The right holder shall not provide water diverted under this right for the irrigation of land having appurtenant surface water rights as a primary source of irrigation water except when the surface water rights are not available for use. This condition applies to all land with appurtenant surface water rights, including land converted from irrigated agricultural use to other land uses but still requiring water to irrigate lawns and landscaping.
3. 121 The Director retains jurisdiction to require the right holder to provide purchased or leased natural flow or stored water to offset depletion of Lower Snake River flows if needed for salmon migration purposes. The amount of water required to be released into the Snake River or a tributary, if needed for this purpose, will be determined by the Director based upon the reduction in flow caused by the use of water pursuant to this permit.
4. 01M After specific notification by the department, the right holder shall install a suitable measuring device or shall enter into an agreement with the department to determine the amount of water diverted from power records and shall annually report the information to the department.
5. Water bearing zone to be appropriated is from 300 to 500 feet.
 Place of use is within the City of Nampa service area.
 Point of diversion is known as Nampa Well #13, located in Lot 2, Blk. 1, Idaho Center.

Remarks:

IDAHO DEPARTMENT OF WATER RESOURCES

Water Permit Report 63-12543

Comments:

1. DNELSON 8/10/1999 ADDITIONAL INFORMATION

Comment: Well also known as Nampa Well # 13.

2. DELLIS 8/16/2000 Extension of Time Received

Comment: Extension of Time Received

Dates and Other Information:

Permit Proof Due Date: 10/1/2001

Permit Proof Made Date: 9/24/2001

Permit Approved Date: 9/27/1999

Permit Moratorium Expiration Date:

Enlargement Use Priority Date:

Enlargement Statute Priority Date:

Field Exam Date:

Date Sent to State Office:

Date Received at State Office:

State or Federal:

Owner Name Connector:

Water District Number:

Generic Max Rate Per Acre:

Generic Max Volume Per Acre:

Swan Falls Trust or Nontrust:

Swan Falls Dismissed:

DLE Act Number:

Carey Act Number:

Mitigation Plan: False

Combined Use Limits:

Water Supply Bank:

ATTACHMENT A
PRODUCTION RECORDS (ALL UNITS ARE GALLONS) AND WELL 13 PUMP CURVE

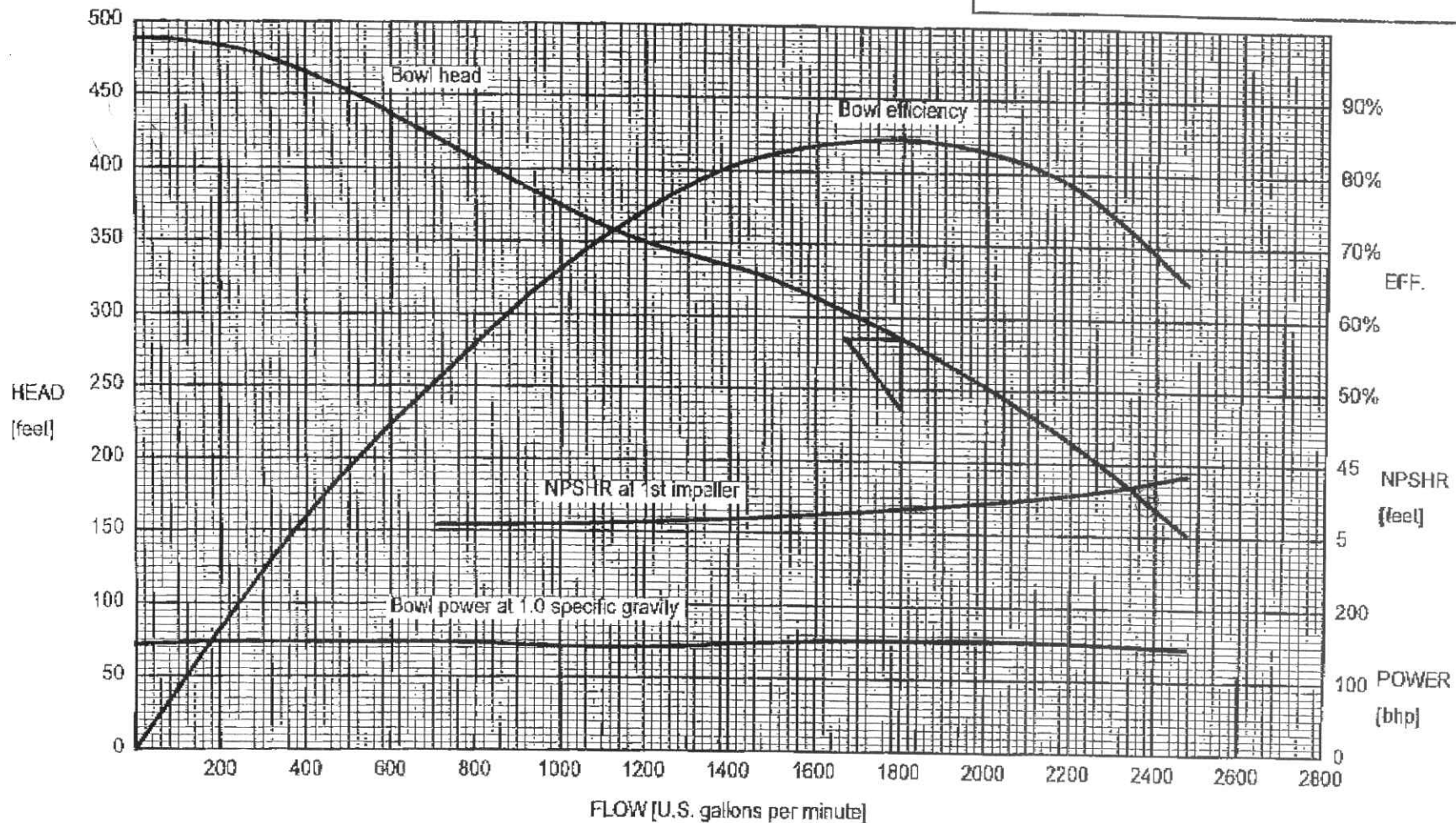
DATE	1 & 2	G-3	G-4	G-5	G-6	G-9	G-10	G-11	G-12-	G-13	TOTAL GAL
9/1/2001		1,225,000	143,000			2,186,000	6,344,000	2,766,000	1,315,000		13,979,000
9/2/2001		948,000				1,274,000	747,800	2,424,000	1,155,000		6,548,800
9/3/2001		1,129,000	167,000	90,000		2,265,000	751,900	3,354,000	1,310,000		9,066,900
9/4/2001		1,093,000	26,000	30,000	1,534,000	2,058,000	475,000	2,105,000	1,050,000		8,371,000
9/5/2001		1,127,000	144,000	456,000	857,000	168,000	678,000	2,690,000	1,140,000		7,260,000
9/6/2001		1,195,000	67,000	501,000	1,119,000	557,000	515,000	3,060,000	868,000		7,882,000
9/7/2001		1,152,000	167,000	16,000	544,000		430,000	2,142,000	799,000		5,251,000
9/8/2001		1,081,000	163,000		899,000	430,000	555,000	2,874,000	661,000		6,663,000
9/9/2001		1,079,000	184,000	633,000	1,129,000	199,000	639,000	3,369,000	938,000		8,170,000
9/10/2001		1,481,000	93,000	334,000	1,147,000	513,000	508,700	2,764,000	738,000		7,578,700
9/11/2001		727,000	560,000	90,000	989,000	120,000	577,300	3,137,000	844,000		7,044,300
9/12/2001		1,493,000	436,000	3,000	741,000	180,000	553,600	2,834,000	835,000		7,075,600
9/13/2001		681,000	214,000	211,000	193,000	1,580,000	163,600	4,379,000	1,120,000		8,541,600
9/14/2001		1,195,000	113,000	164,000	678,000	2,433,000	163,600	4,379,000	1,308,000		10,433,600
9/15/2001		1,113,000	196,000	142,000	1,195,000	1,723,000		2,129,000	1,206,000		7,709,000
9/16/2001		922,000	466,000	402,000	1,171,000	938,000		2,399,000	1,131,000	25,000	7,454,000
9/17/2001		1,046,000	47,000	1,171,000	998,000	2,471,000		1,406,000	1,149,000	25,000	8,313,000
9/18/2001		1,076,000	17,000	154,000	1,087,000	3,740,000		2,510,000	1,061,000	72,000	9,717,000
9/19/2001		1,070,000	99,000	743,000	1,221,000	2,025,000		1,083,000	601,000	25,000	6,867,000
9/20/2001		1,074,000	93,000	243,000	1,050,000	2,182,000		2,179,000	1,079,000		7,900,000
9/21/2001		1,158,000	3,840,000	317,000	1,052,000	715,000	559,900	2,644,000	1,304,000	58,000	11,647,900
9/22/2001		1,229,000	865,000	775,000	1,227,000		641,700	3,230,000	1,261,000	33,000	9,261,700
9/23/2001		912,000	702,000	1,065,000	1,088,000		539,800	2,794,000	958,000	20,000	8,078,800
9/24/2001		1,433,000	347,000		1,147,000	1,883,000	287,800	2,495,000	1,080,000	591,000	9,263,800
9/25/2001		683,000	82,000	111,000	960,000	2,442,000	75,000	2,360,000	1,236,000		7,949,000
9/26/2001		1,057,000	171,000	160,000	1,040,000	2,508,000	5,900	2,714,000	1,204,000		8,859,900
9/27/2001		1,076,000	1,000	229,000	1,283,000	2,482,000	231,300	2,623,000			7,925,300
9/28/2001		1,148,000	22,000	87,000	1,089,000	2,834,000	172,900	2,183,000	1,241,000		8,776,900
9/29/2001		1,045,000	187,000	181,000	1,039,000	2,291,000		2,096,000	1,116,000		7,955,000
9/30/2001		1,218,000	326,000		1,161,000	2,613,000	1,298,000	2,506,000	1,191,000		10,313,000
											251,856,800

DATE	1 & 2	G-3	G-4	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	G-13	TOTAL GAL
10/1/2001		869,000	76,000	192,000	1,081,000			2,305,000	51,100	2,310,000	1,136,000		8,020,100
10/2/2001		1,097,000			236,000	1,105,000			2,319,000	323,000	1,205,000		6,285,000
10/3/2001		1,036,000	207,000	51,000	1,211,000			2,443,000	37,600	2,649,000	1,181,000	297,000	9,112,600
10/4/2001		1,067,000			1,003,000			2,550,000		2,090,000	1,214,000		7,924,000
10/5/2001		1,193,000	113,000	16,000	1,147,000			2,465,000		2,033,000	1,296,000		8,263,000
10/6/2001		1,017,000		18,000	1,047,000			2,341,000		2,033,000	1,109,000		7,565,000
10/7/2001		975,000		22,000	1,166,000			2,934,000		2,397,000	1,162,000		8,656,000
10/8/2001		1,044,000	84,000		1,064,000			1,956,000	5,800	2,397,000	1,162,000		7,477,800
10/9/2001		1,062,000			1,069,000			2,422,000	40,800	1,696,000	1,182,000		7,471,800
10/10/2001		1,069,000			1,108,000			2,591,000		1,929,000	1,191,000		7,888,000
10/11/2001		1,037,000			1,081,000			2,436,000	1,500	1,749,000	1,170,000		7,474,500
10/12/2001		1,172,000	21,000		878,000			2,505,000		1,178,000	1,255,000		7,009,000
10/13/2001		1,041,000			1,110,000			2,380,000		2,758,000	1,130,000		8,419,000
10/14/2001		961,000			968,000			2,349,000		2,092,000	1,066,000		7,436,000
10/15/2001		1,044,000			732,000			2,391,000		1,227,000	1,163,000	32,000	6,589,000
10/16/2001		1,062,000			916,000			2,260,000		1,516,000	1,196,000		6,950,000
10/17/2001		1,040,000	1,000		795,000			2,430,000		1,556,000	1,116,000		6,938,000
10/18/2001		1,040,000	1,000		816,000			2,740,000		1,360,000	1,135,000		7,092,000
10/19/2001		1,043,000			824,000				2,466,000	900	1,420,000	1,178,000	5,888,900
10/20/2001		1,043,000			822,000					1,559,000	1,129,000		4,553,000
10/21/2001		1,065,000	1,000	2,000	1,052,000			1,788,000	156,500	2,728,000	1,153,000		7,945,500
10/22/2001		803,000	242,000	498,000	1,131,000			115,000	188,300	2,553,000	1,129,000		6,659,300
10/23/2001		1,011,000	7,000	23,000	784,000			2,251,000		1,328,000	1,145,000		6,549,000
10/24/2001		1,052,000	36,000		857,000	2,000		2,535,000		1,385,000	1,052,000		6,919,000
10/25/2001		1,064,000			688,000			2,552,000		1,414,000	1,267,000		6,985,000
10/26/2001		1,071,000			665,000			2,163,000		781,000	1,089,000		5,769,000
10/27/2001		1,110,000			800,000			2,640,000		1,370,000	1,198,000		7,118,000
10/28/2001		970,000	6,000		797,000			2,190,000		1,700,000	1,061,000		6,724,000
10/29/2001		1,045,000			791,000			2,400,000		1,270,000	1,137,000		6,643,000
10/30/2001		1,053,000			847,000			2,610,000		1,268,000	1,168,000		208,324,500
10/31/2001													
Total		30,113,000	795,000	822,000	26,662,000	1,931,000	0	62,742,000	5,266,600	50,408,900	35,023,000	1,507,000	416,649,000

City of Nampa Well #13 Pump Installed Originally

The head and power may be different than shown in accordance with Hydraulic Institute standards.

NAMPA WELL #13



RIVERSIDE, INC
PARMA, ID

Floway PUMPS

FRESNO, CALIFORNIA

A **WET** COMPANY

TYPE: 14DKM
NO. OF STAGES: 4
R.P.M.: 1784
PUMP SERIAL NO.:

DWG. NO.
Archimedex

DWN. BY: rayc

WELL DRILLER'S REPORT

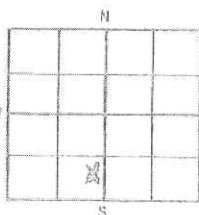
1. WELL TAG NO. D 000 12474
DRILLING PERMIT NO. 63-79-4-0634-000
Other IDWR No. 63-12543

2. OWNER:

Name City of Nampa #13
Address 411 3rd St. South
City Nampa State Id Zip 83651

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.



Twp. 3 North ☒ or South ☐
Rge. 1 East ☐ or West ☒
Sec. 7 SE 1/4 SE 1/4 SW 1/4
Gov't Lot _____
County Canyon
Lat: _____ Long: _____

Address of Well Site Franklin RdNear Town Center City Nampa
(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/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks	Pounds	
Bentonite	0	302			over bore
Bentonite	0	372	24	yards	over bore
Bentonite	527	630	94	lbs	

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
20	42	309	.375	Steel	☒	☐	☒	☐
12	289	382	.375	Steel	☒	☐	☒	☐
12	382	402	.375	Steel	☒	☐	☒	☐

Length of Headpipe 20' Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations

Method

Screens

Screen Type Johnson W. Re SS

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
382	394	.030		12	SS	☒	☐
402	422	.030		12	SS	☒	☐
423	443	.030		12	SS	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

ft. below ground Artesian pressure 11 lb.Depth flow encountered 19 ft. Describe access port or control device: Small well head & valve

Office Use Only

Inspected by _____

Twp _____ Rge _____ Sec _____

1/4 _____ 1/4 _____ 1/4 _____

Lat: _____ Long: _____

☐ Air ☐ Flowing Artesian

11. WELL TESTS:

☒ Pump ☐ Bailor☐ Air☐ Flowing Artesian

Yield gal/min	Drawdown	Pumping Level	Time
1825	70	70	8 hrs
	50-60 ft/min		

Water Temp. less than 85° Bottom hole temp. _____

Water Quality test or comments: _____

Depth first Water Encounter 19'

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
28"	0	6	top Soil		
"	6	19	Hard bent Clay w/ clerkey		
"	19	53	Loose gravel & Sand		
"	53	54	tan Clay		
"	54	62	fine to med Sand		
"	62	66	tan Clay & Sand mix		
"	66	78	fine to med tan Sand w/ clay		
"	78	89	tan Clay		
"	89	110	fine to med tan Sand w/ clay & silt		
"	110	120	fine to med tan Sand		
"	120	155	fine to coarse tan Sand		
"	155	158	tan Clay & Sand mix		
"	158	203	fine to coarse tan Sand		
"	203	213	tan Clay & Sand		
"	213	250	fine to coarse tan Sand		
"	250	260	tan Clay w/ Brown Sand last 2'		
"	260	268	Sandy Brown Clay		
"	268	273	fine tan Sand		
"	273	288	tan Clay		
"	288	291	tan fine Sand & Clay tan mix		
"	291	304	tan Sandy Clay		
"	304	309	fine Sand		
28"	309	342	tan Clay w/ silt & stone		
20"	342	351	fine to med Sand		
"	351	367	Brown clay		
"	367	374	tan Clay		
"	374	387	fine to coarse Sand		
"	387	389	tan Clay		
"	389	393	fine to coarse Sand		
"	393	401	Blue Clay		
20"	401	424	Sand		
"	424	433	Blue Clay		

Completed Depth 527' (Measurable)
Date: Started 11/2/99 Completed 2/9/00

13. DRILLER'S CERTIFICATION

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

Company Name Riverside Inc. Firm No. 333Firm Official Dane Chan Date 11/30/00and _____
Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO: WATER RESOURCES

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

1. WELL TAG NO. D2012474
DRILLING PERMIT NO. 63-99-W-0634-000
Other IDWR No. 63-12843

2. OWNER:
Name City of Nampa #13
Address 411 3rd St. South
City Nampa State ID Zip 83605

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>3</u>		North ☒ or South ☐
E		Rge. <u>1</u>		East ☐ or West ☒
S		Sec. <u>7</u>		SE 1/4 SE 1/4 SW 1/4
W		Gov't Lot		County <u>Canyon</u>
		Lat:		Long:
		Address of Well Site <u>Franklin Rd</u>		City <u>Nampa</u>

Near ID Center
(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/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
<u>Col. Sil. Sand</u>	<u>372</u>	<u>527</u>	<u>Filter Pack</u>	<u>8-12</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>22"</u>	<u>422</u>	<u>433</u>	<u>375</u>	<u>Steel</u>	☒	☐	☒	☐
<u>12"</u>	<u>433</u>	<u>497</u>	<u>375</u>	<u>Steel</u>	☒	☐	☒	☐
<u>12"</u>	<u>517</u>	<u>527</u>	<u>375</u>	<u>Steel</u>	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____ Method _____
Screens _____ Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
<u>497</u>	<u>517</u>	<u>.030</u>		<u>12</u>	<u>SS</u>	☒	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ ft. below ground Artesian pressure 11 lb.
Depth flow encountered _____ ft. Describe access port or
country devices _____

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

11. WELL TESTS:

Yield gal/min	Drawdown	Pumping Level	Time

Water Temp. Less Than 85° Bottom hole temp. _____

Water Quality test or comments: _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water
				Y N
<u>20</u>	<u>433</u>	<u>444</u>	<u>Sand - screened (4 1/2 b.c.)</u>	
<u>11</u>	<u>444</u>	<u>526</u>	<u>Blue Clay</u>	
<u>11</u>	<u>526</u>	<u>516</u>	<u>Coarse Sand - screened</u>	
<u>11</u>	<u>516</u>	<u>541</u>	<u>Blue Clay</u>	
<u>11</u>	<u>541</u>	<u>546</u>	<u>Coarse Sand</u>	
<u>11</u>	<u>546</u>	<u>559</u>	<u>Blue Clay</u>	
<u>11</u>	<u>559</u>	<u>567</u>	<u>Sand</u>	
<u>11</u>	<u>567</u>	<u>574</u>	<u>Sand</u>	
<u>11</u>	<u>574</u>	<u>595</u>	<u>Blue Clay</u>	
<u>11</u>	<u>595</u>	<u>600</u>	<u>fine to med Gray Sand</u>	
<u>11</u>	<u>600</u>	<u>605</u>	<u>Blue Clay</u>	
<u>11</u>	<u>605</u>	<u>607</u>	<u>fine Gray Sand w/uxed</u>	
<u>11</u>	<u>607</u>	<u>612</u>	<u>fine to coarse Gray Sand</u>	
<u>11</u>	<u>612</u>	<u>622</u>	<u>Gray Clay</u>	
<u>11</u>	<u>622</u>	<u>625</u>	<u>Blue clay</u>	
<u>11</u>	<u>625</u>	<u>627</u>	<u>Dark oily Brown Clay</u>	

very reflective core

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 Riverside Inc Firm No. 333

Firm Official Dave Ch Date 1/20/02

and _____
Driller or Operator _____ Date _____

(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

well 13

Post-it Fax Note

7671

Date

of pages

16

To Rob Whitney

From Matt Cunniff

Co./Dept.

Co. J-U-B

Phone #

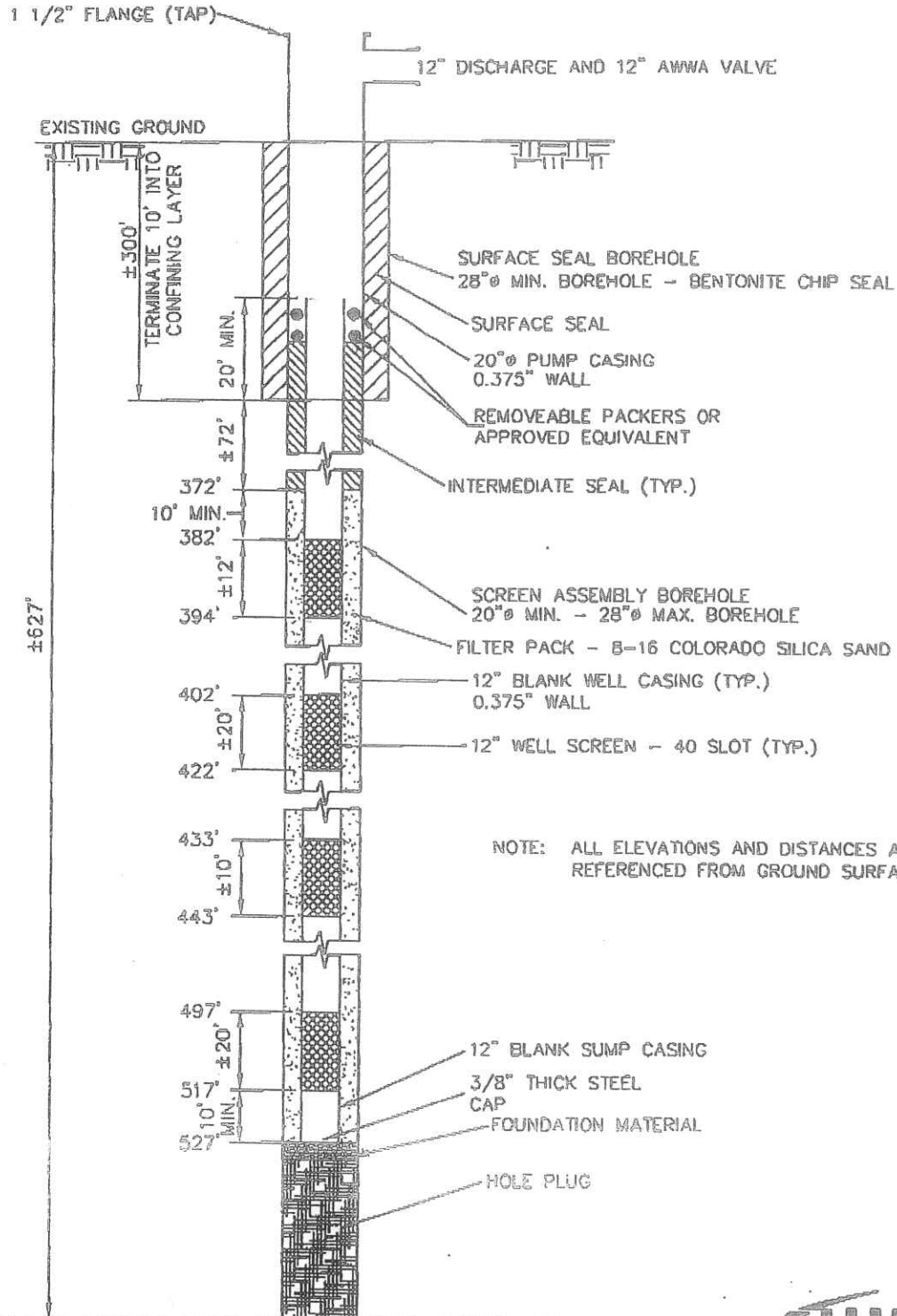
Phone #

Fax #

334-2348

Fax #

1999 MUNICIPAL
CITY OF
CANYON COL
MUNICIPAL W
1000 GALLONS PER



N.T.S.

40104/CONST-WELL

J.U.B.
DESIGN • CONSTRUCTION • PLUMBING



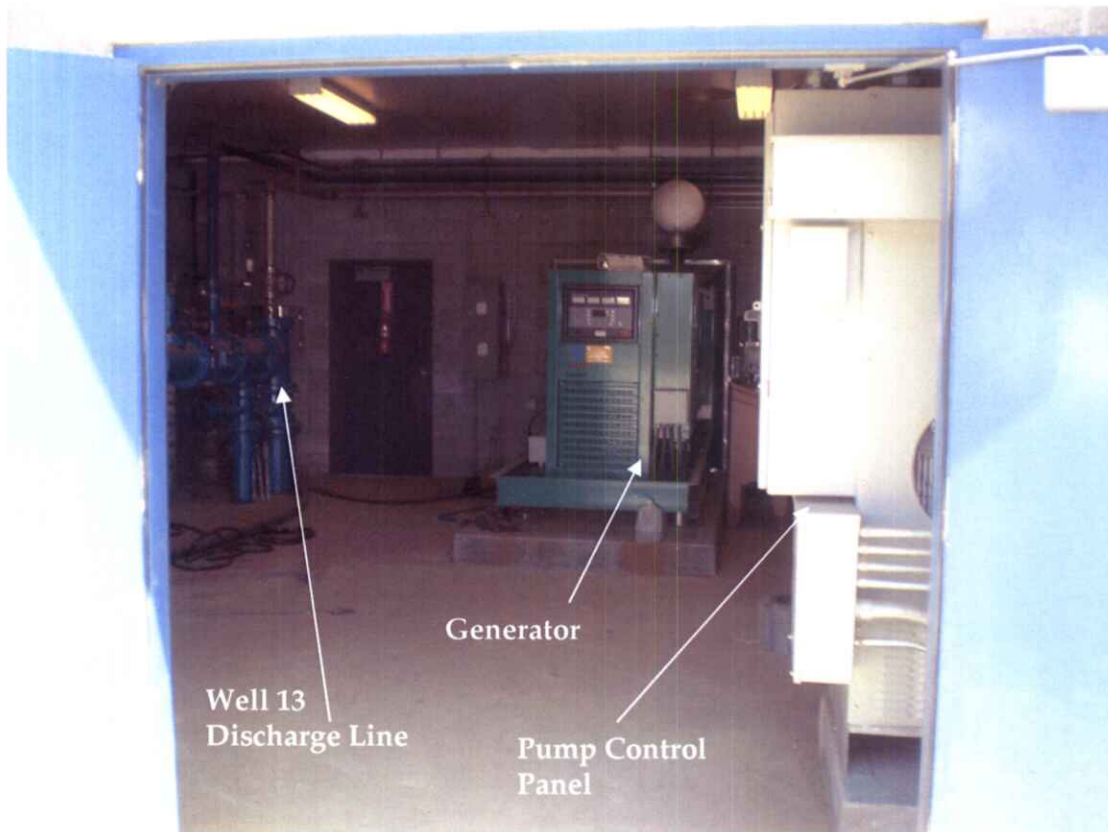
Well 13 Pump House



Well 13 Pump House



Well 13 Pump House







Ozone Treatment Equipment