

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 45-13411

Exam Date: 6/28/2012

1. Current Owner: CITY OF BURLEY
PO BOX 1090
BURLEY ID 83318
(208)878-2224
2. Accompanied by: Bryan Reiter
Phone No: (208)878-2103
Address: same as above
Relationship to Permit Holder: Certified PWS Operator for the City of Burley
Email: bryanreiter@pmt.org

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. **Other water rights with the same place of use:** The following water rights for the City of Burley have the same service area boundary: 45-4085, 45-4087, 45-4089, 45-4090, 45-4091, 45-4092, 45-4093, 45-4094, 45-4095, 45-4096, 45-4097, 45-4098, 45-4099, 45-7092, 45-7114, 45-7269, 45-7436, 45-7686, 45-7735, 45-11133, 45-13411, 45-13895, 45-14083, 45-14290.

2. **Other water rights with the same point of diversion:** The following City of Burley water rights wells are included as PODs for water right 45-13411, with well #7 being the new well drilled.

- | | |
|----|----------|
| #2 | A45-4099 |
| #3 | A45-4098 |
| #4 | 36-4080 |
| #5 | A45-7269 |
| #6 | A45-7735 |

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

Well #2: GROUND WATER SW1/4SE1/4 Sec. 20, Twp 10S, Rge 23E, B.M.	CASSIA County
Well #3: GROUND WATER SE1/4NE1/4 Sec. 30, Twp 10S, Rge 23E, B.M.	CASSIA County
Well #4: GROUND WATER NE1/4NW1/4 Sec. 17, Twp 10S, Rge 23E, B.M.	MINIDOKA County**
Well #5: GROUND WATER SE1/4NE1/4 Sec. 32, Twp 10S, Rge 23E, B.M.	CASSIA County
Well #6: GROUND WATER SW1/4NW1/4 Sec. 33, Twp 10S, Rge 23E, B.M.	CASSIA County
Well #7: GROUND WATER NW1/4SW1/4 Sec. 21, Twp 10S, Rge 23E, B.M.	CASSIA County

*****Comments in the file from Shelley Keen states that "at Licensing" to license this water right for the two different basins (45 and 36), to keep the water masters informed of the strategy.***

Method of Determination: Previous POD PLS used for all PODs, except well #7 was GPS'd at the time of this field examination, due to it being the new well being drilled. Confirmed with GPS Garmin Map76S and ArcMap 2013 Imagery.

2.

PLACE OF USE: MUNICIPAL

Service Area Boundary for the City of Burley (see attached map)

Method of Determination: Used current Large POU Imagery. Confirmed with GPS Garmin Map76S and ArcMap 2013 Imagery.

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

Well or Diversion
ID No.*

Motor Make

Hp

Motor Serial No.

Pump Make

Pump Serial No. or Discharge
Size

well #7, ID Tag # A00018534, US Motor 3 pH, model 7230 BCBM upper bearing, 60 Hp turbine pump, with 14" ductile iron discharge.

Booster Pumps:

(2) US Motors 3 pH, 200 Hp each, model 7320 BEH, with 12" ductile iron discharge each

(1) US Motors 3 pH, 50 Hp, model #20076843-100 with a 6" ductile iron discharge

*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

Rosemount Magnetic Flow tube, model 0949105909189005, serial # 0870151520.

Unknown

Note: At the time of the field examination, no physical measurement could be collected due to the pump burning up 7-months prior. Even though the new pump had been installed, it was not yet online, due to the City of Burley waiting on their bacteriological test results to return. For this reason, historical flow records were used.

2. Measurements:

Historical Flow Records (submitted by the City of Burley):

2009 3000 gpm (6.69 cfs)

2010 3500 gpm (7.8 cfs)

2011 3500 gpm (7.8 cfs)

RECOMMEND:

Municipal 1/1 – 12/31 7.8 cfs

E. FLOW CALCULATIONS

Measured Method:

None.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

2. Volume Calculations for Other Uses:

Condition 022 is the limiting factor for the volume.

Permit was approved prior to the 10/19/2009 Administrative Licensing Memo #1.

G. NARRATIVE/REMARKS/COMMENTS:

At the time of the field examination, the POU for the City of Burley is the service area boundary. There were only 6 wells that are connected with this distribution throughout the City of Burley. They are identified on the map as wells #2 – 7. Well #1 the casing rusted out. The original water right numbers for these wells are as follows:

#1 45-4097 (rusted out, and will not be included on water right 45-13411)
#2 A45-4099
#3 A45-4098
#4 36-4080
#5 A45-7269
#6 A45-7735
#7 New well

At the well lot where well #7 is located, there is a 2 million gallon storage tank, with an 18" overflow, a 16" inlet from the booster pumps inside the pump house; 20" discharge from the tank that reduces to a 12" distribution main that reduces to 2" – 10" mains throughout the service area boundary (the majority of the mains are 6"). Inside the pump house is located well #7, ID Tag # A00018534, drilled on 8/30/2006 by Stan Lloyd Drilling LLC. It has a 30" casing, 830' deep, 257' static, a US Motor 3 pH, model 7230 BCBM upper bearing, 60 Hp turbine pump, with 14" ductile iron discharge.

The following booster pumps pump the water to the storage tank through a 16" ductile iron line:

(2) US Motors 3 pH, 200 Hp each, model 7320 BEH, with 12" ductile iron discharge each

(1) US Motors 3 pH, 50 Hp, model #20076843-100 with a 6" ductile iron discharge

Flow goes through a Rosemount Magnetic Flow tube, model 0949105909189005, serial # 0870151520. At the time of the field examination, the motor for well #7 had burned out 7-months before, and the City of Burley had just replaced it, but could not put it online until they received back their good bacteriological test results. For this reason, historical pump tests were submitted and used to determine diversion rates. 2009 results were 3000 gpm, with 2010 and 2011 both being 3500 gpm (7.8 cfs).

Beneficial use is for the additional growth taking place in the City of Burley.

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	7.8 CFS	
<u>Totals:</u>		7.8 CFS	

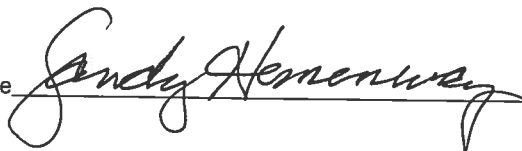
2. Recommended Amendments

☐ 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



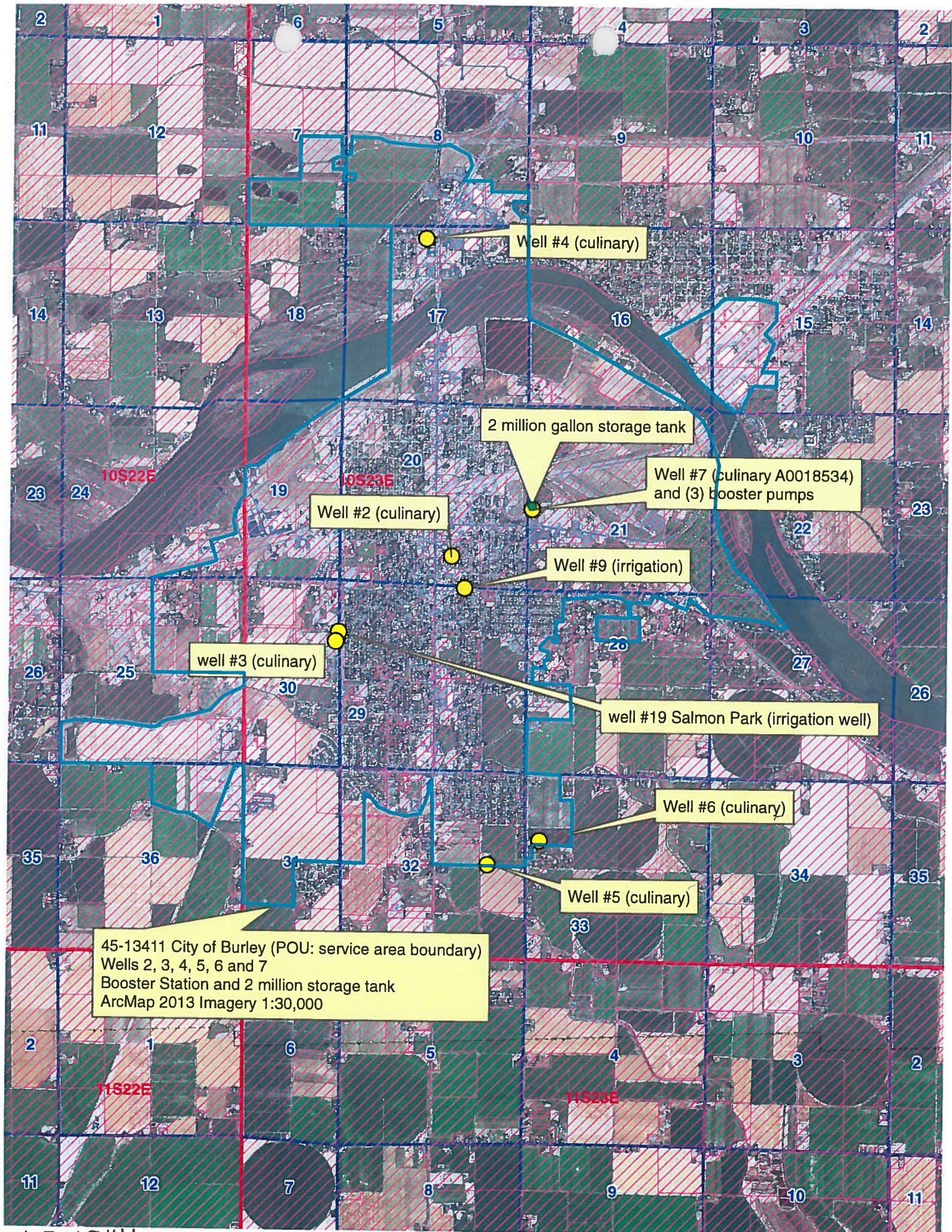
Date: 4/17/2014

Basin	Sequence	Scn	Process	Beals Status	Def't	Righted	Priority Date	Dy	Rate Source List	Water User	Current Owner	Total Acres	Volume	Water District	Reference Name (previous names)	City assigned new well #s	Description
1	7052		Water Right	Deer Active	N	618345	1/24/1983		1.800 SNAKE RIVER	WATER CO CITY OF BURLEY		873.0		1			400040211, 10" casing, 278 ft deep, 180" static, GE Michael M02500C214 40"hp Type K Cade F, Frame A3504LVY
36	2648 A		Water Right	Deer Active	N	6655	6/20/1989		1.190 SNAKE RIVER	IRRIGATOR CITY OF BURLEY		84.2	288.0	130			
36	2648 B		Water Right	Deer Active	N	125677	4/6/1986		1.980 GROUND WATER-INDUSTRIAL CITY OF BURLEY			332.6		130			
36	2729		Water Right	Deer Active	N	125565	3/24/1984		0.700 GROUND WATER-INDUSTRIAL CITY OF BURLEY					130			
36	4087		Water Right	Deer Active	N	145001	6/27/1987		0.810 GROUND WATER-INDUSTRIAL CITY OF BURLEY					130			
36	4180		Water Right	Deer Active	N	442221	8/11/1982		0.020 GROUND WATER-INDUSTRIAL CITY OF BURLEY			0.5	2.0	130			
36	4181		Water Right	Deer Active	N	125597	5/9/1982		0.020 GROUND WATER-INDUSTRIAL CITY OF BURLEY			0.5	2.0	130			
36	4182		Water Right	Deer Active	N	125597	5/9/1982		0.020 GROUND WATER-INDUSTRIAL CITY OF BURLEY			0.5	2.0	130			
36	4184		Water Right	Deer Active	N	125597	5/9/1982		0.020 GROUND WATER-INDUSTRIAL CITY OF BURLEY			0.5	2.0	130			
45	2719		Water Right	Deer Active	N	578331	9/22/1970		1.510 GROUND WATER-INDUSTRIAL CITY OF BURLEY			75.7	302.8	140			
45	4085		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4087		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4088		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4089		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4090		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4091		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4092		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4093		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4094		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4095		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4096		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4097		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4098		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	4099		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7002		Water Right	Deer Active	N	345832	8/24/1987		4.000 GROUND WATER-INDUSTRIAL CITY OF BURLEY			107.6	1,796.5	140			
45	7002		Water Right	Deer Active	N	345832	8/24/1987		4.000 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7114		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7209		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7245		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7288		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7289		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7295		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	7317		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	12417		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	12485		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	14043		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	14230		Water Right	Deer Active	N	620285	12/31/1989		0.300 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			
45	10243		Water Right	Deer Active	N	186387	4/11/1983		1.900 SNAKE RIVER	IRRIGATOR CITY OF BURLEY		96.0		140			
45	11847		Water Right	Deer Active	N	275683	12/31/1986		0.900 GROUND WATER-INDUSTRIAL CITY OF BURLEY					140			

Water Rights for the City of Burley, and Overlaps (POU & POD)

**These rights are associated with an irrigation delivery system north of the railroad tracks, an irrigation delivery system south of the railroad tracks and a canyony system. (as stand on 45-13855, 45-14290 and 45-14083)

It looks like there are separate wells for irrigation and separate wells for possible use, according to the water rights. Have the wells all been interconnected yet into one system
 Can you match the following reference names with a water right: Drake, North Park, Pleasant View Cemetery - West of Building, Golf Course (south of road), Pleasant View Cemetery (east of building), and Airport?



45-13411 City of Burley (POU: service area boundary)
Wells 2, 3, 4, 5, 6 and 7
Booster Station and 2 million storage tank
ArcMap 2013 Imagery 1:30,000

Well #4 (culinary)

2 million gallon storage tank

Well #7 (culinary A0018534) and (3) booster pumps

Well #2 (culinary)

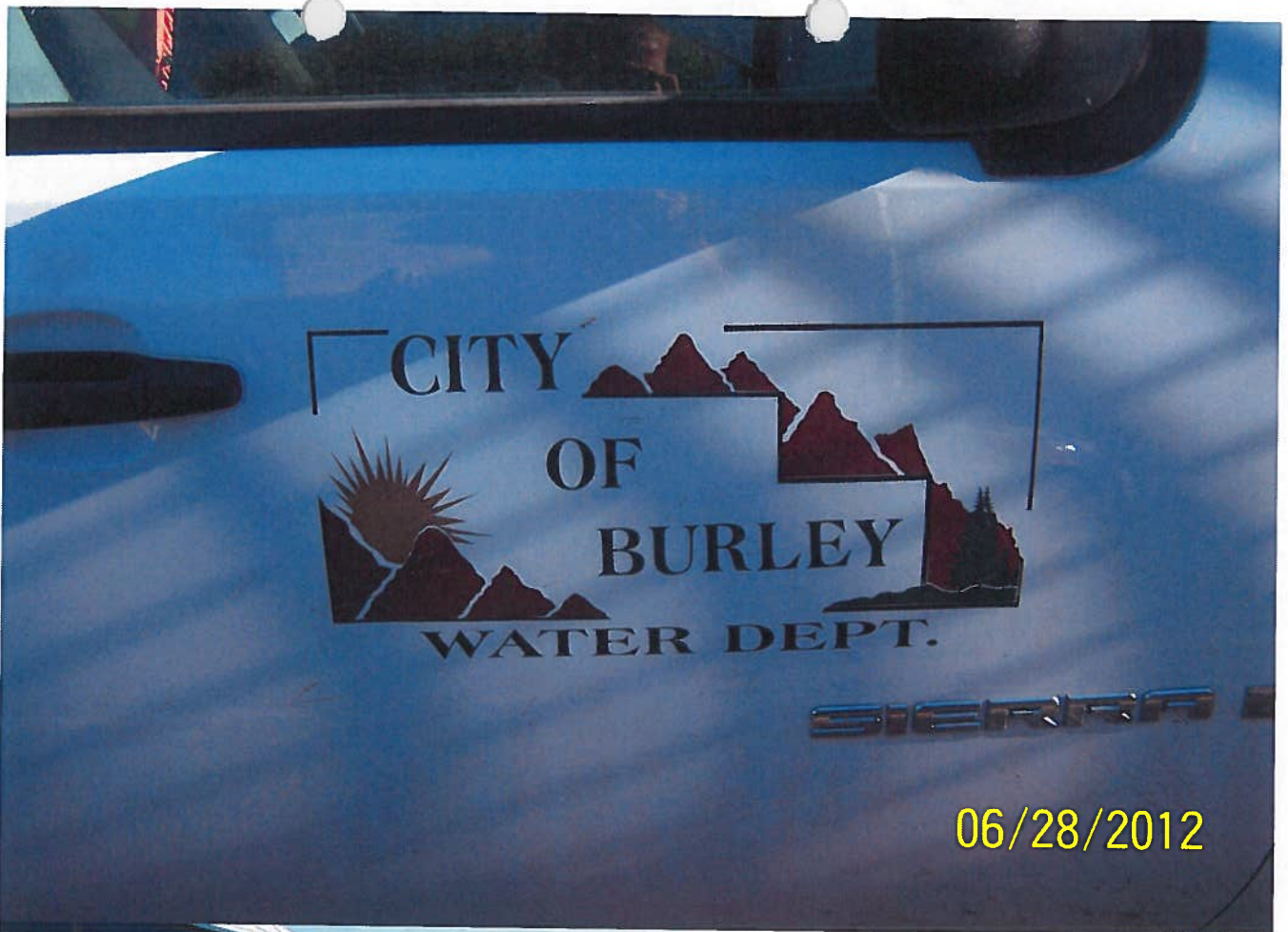
Well #9 (irrigation)

well #3 (culinary)

well #19 Salmon Park (irrigation well)

Well #6 (culinary)

Well #5 (culinary)



2M.
gallon
storage
tank
with
18"
overflow

45-13411

S. Hemminger



18" overflow

16" inlet from booster pumps;

20" discharge that reduces to

12" distribution + fire protection

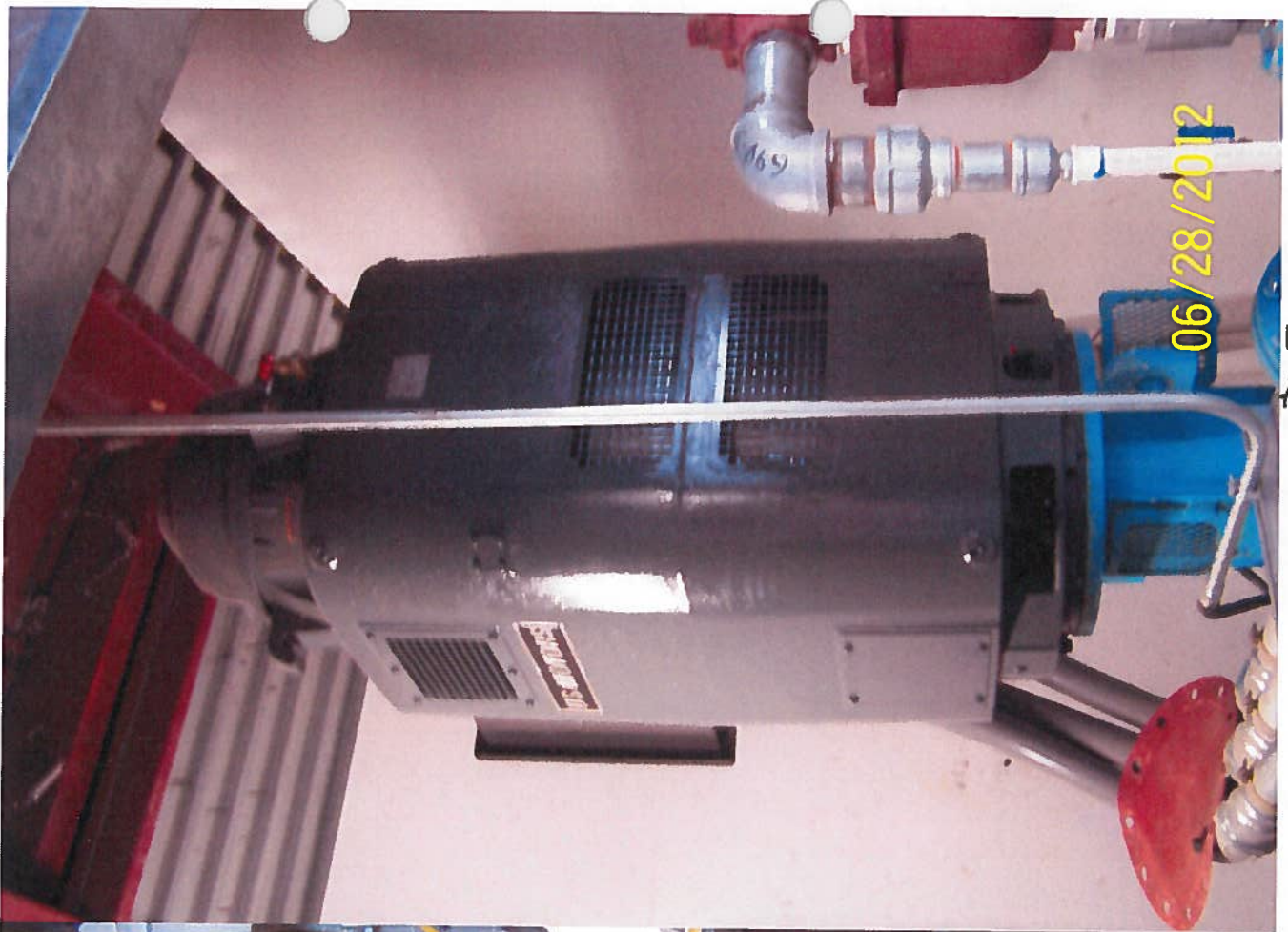
2-10" mains, majority 6"

pump house



45-13411

S. Hemenway



POD
Well #8
A001853



POD
US
3pt
model
7230
B2BM
upper
bearing
600Hp
turbine,
14"
ductile
iron
discharge

45-1346

S. Hemerway



Prooster
 Pumps:
 27 US
 Motor
 3PH
 200 Hp
 Model
 T320
 BEH
 12"
 ductile
 iron
 discharge
 +
 (1)
 US Motor
 3PH
 50 Hp
 Model #
 200768
 43-100
 with
 6"
 discharge

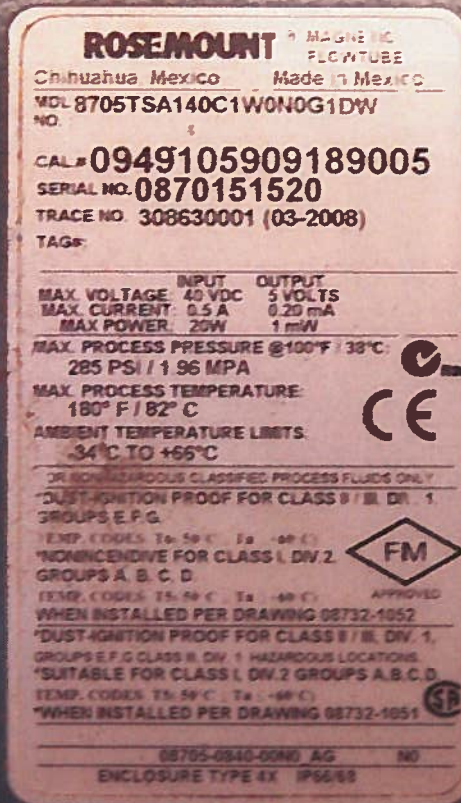
16"
 ductile
 iron to
 storage
 tank



Flow
Meter

45-13411

S. Hemerway



Flow
Meter

06/28/2012



45-13411

S. Hernerway

2011

SECTION II. Meter Readings

Describe type or brand of the meter: Rosemont 8705TSA140C1W6N061DW
 Record flow meter volume and flow rate at least once per month. Take year-end reading near December 31. Record units (gallons, acre-feet, gpm, cfs) and any multipliers. Please explain when two or more diversions are measured with one meter or when two or more meters are used for one diversion (indicate each meter's readings).

Date (enter date of reading if different than below)	Total Volume Reading Units: <u>gallons</u> (gal or af) Multiplier: X <u>1</u>	Flow Rate Units: <u>(gpm)</u> (gpm or cfs) Multiplier: X <u>1</u>	Discharge pressure (psi)
January 1	1,212,651,000	3500 gpm	10 psi
January 31	1,238,702,000		
February 28	1,256,566,000		
March 31	1,283,883,000		
April 30	1,314,113,000		
May 31	1,335,796,000		
June 30	1,344,138,000		
July 31	1,344,138,000		
August 31	1,344,138,000		
September 30	1,365,796,000		
October 31	1,388,281,000		
November 30	1,398,778,000		
December 31	1,398,800,000		

(7.8 cfs)

* Please take reading on or near the end of each month.

Do the totalizer readings above include the meter multiplier? ☒ Yes ☐ No

Total Gallons 186,149,000 ✓
 OR

Total Acre-ft _____

(325,850 gallons per acre-foot)

Point of Diversion #7

Culinary Well #7

2010

SECTION II. Meter Readings

Describe type or brand of the meter: Rosemount
Rosemount 8705TSA14061W DND061DW
 Record flow meter volume and flow rate at least once per month. Take year-end reading near December 31. Record units (gallons, acre-feet, gpm, cfs) and any multipliers. Please explain when two or more diversions are measured with one meter or when two or more meters are used for one diversion (indicate each meter's readings).

Date (enter date of reading if different than below)	Total Volume Reading Units: <u>gallons (gal)</u> or af Multiplier: X <u>1</u>	Flow Rate Units: <u>gpm</u> (gpm) or cfs Multiplier: X <u>1</u>	Discharge pressure (psi)
January 1	704875000	3500 gpm	
January 31	736082000		
February 28	7645100000		
March 31	794916000		
April 30	843046000		
May 31	884256000		
June 30	932818000		
July 31	990408000		
August 31	1063068000		
September 30	1120585000		
October 31	1150460000		
November 30	1183852000		
December 31	1212651000		

* Please take reading on or near the end of each month.

Do the totalizer readings above include the meter multiplier? X Yes No

Total Gallons 507,776,000
OR

Total Acre-ft

(325,850 gallons per acre-foot)

Point of Diversion #7

Culinary Well #7

SECTION III Rate of flow and volume diverted (REQUIRED DATA)

Meter information:

Make Rosemont Model No. 8705 T6A 140 C 1W 0ND 610W Serial No. 0870151520

Does the meter totalizer measure in acre-feet or gallons?
(circle one)

What is the multiplier? 1

Does the meter rate of flow indicator show gpm or cfs?
(circle one)

What is the multiplier? 1

Reading of the meter totalizer, flow rate and discharge pressure should be taken and recorded once each month on or near the same date. Please provide the actual totalizer reading and not the total volume since last reading.

Date (date of reading)	Totalizer Reading	Flow Rate circle: cfs or gpm	Discharge Pressure
End of last year	<u>242037000</u>	<u>2000</u>	
January (<u>31</u>)	<u>261898000</u>		
February (<u>28</u>)	<u>278426000</u>		
March (<u>31</u>)	<u>295989000</u>		
April (<u>30</u>)	<u>318800000</u>		
May (<u>31</u>)	<u>370234000</u>		
June (<u>30</u>)	<u>433828000</u>		
July (<u>31</u>)	<u>512769000</u>		
August (<u>31</u>)	<u>580996000</u>		
September (<u>30</u>)	<u>631917000</u>		
October (<u>31</u>)	<u>661516000</u>		
November (<u>30</u>)	<u>676985000</u>		
December (<u>31</u>)	<u>704875000</u>		

462,838,000 gallons

Does totalizer and flow readings above include meter multipliers? ☒ Yes ☐ No

SECTION IV Additional Information

Examples: List major modifications made to the diversion system, including new flowmeter installation. Note if no diversions occurred or no measuring device is installed.

SECTION V Certification

I hereby certify that the above reported information is correct to the best of my knowledge and that I recognize that willful submittal of false or inaccurate data is a violation of law subject to the penalty provisions of Sections 42-311, 42-350 and 42-351, Idaho Code.

George Bunn
Signature

Foreman
Title

1-29-08
Date

Reviewed by _____
Data entry by _____

For Department Use Only

Date _____
Date _____

2009

Point of Diversion #7
Culinary Well #7

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT *Page 1 of 2*

1. WELL TAG NO. D 0037120
 DRILLING PERMIT NO. 837689
 Water Right or Injection Well No. 45-13411

2. OWNER:

Name City of Burley
 Address 1401 Overland Ave., P.O. Box 1090
 City Burley State ID Zip 83318

3. LOCATION OF WELL by legal description:

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

Twp. 10 North ☐ or South ☒
 Rge. 23 East ☒ or West ☐
 Sec. 21 NW 1/4 or SW 1/4
 Gov't Lot _____ County Cassia

Lat: _____ Long: _____
 Address of Well Site Hiland Ave., Approx 300' N.
of Main St. 50' E. City Burley
 (Give street name of road - Distance to Road in Landmark)

Li _____ 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
Cement grout	77	120	7 c.y.	direct pour
Bentonite grout	0	24	2 c.y.	pressure grouting

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 30" = 71' 0", 24" = 18'
 Was drive shoe seal tested? ☐ Y ☒ N How? 30" = 526'

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Unr	Welded	Threaded
30	+2.5	77	.50	Steel	☒	☐	☒	☐
24	+2.5	174	.50	Steel	☒	☐	☒	☐
20	+3.0	527	.375	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____
 Packer ☒ Y ☐ N Type ON 16", 16x20 K-packer

9. PERFORATIONS/SCREENS PACKER TYPE

Perforation Method _____

Screen Type & Method of Installation _____

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

257 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 ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
3550	191	448	25 hrs.

Water Temp. 62 Bottom hole temp 62

Water Quality test or comments: Apparently good, clear, odorless, negative bacteria. Depth first Water Encounter 31'

13. LITHOLOGIC LOG: (Describe repairs or abandonment)

Water

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Y	N
30	0	6	Fill: Brn. sandy clay w/ debris		X
30	6	18	Brn. sandy clay w/ silt		X
30	18	23	Sand & gravel, trace silt/clay		X
30	23	48	Lt. grey clay, some sand	X	
30	48	56	Grey weakly cemented sandy clay	X	
30	56	70	Fine to med. sand w/ silty clay	X	
30	70	90	Lt. brn. sandy clay	X	
30	90	130	Dense Lt. brn. clay, some sand		X
24	130	150	Dense grey to tan clay		X
24	150	172	Lt. brn. claystone		X
24	172	195	Hard dark grey basalt		X
24	195	200	Sticky clay w/ grey basalt		X
24	200	217	Hard brn. grey basalt		X
24	217	254	Brown basalt		X
24	254	278	Orange brn. sandy clay		X
24	278	308	Dense sticky clay		X
24	308	312	Dark grey basalt		X
22	312	344	Brn. sandy clay		X
22	344	381	Lt. brn. dense clay		X
22	381	392	Lt. brn. waxy claystone		X
22	392	405	Lt. tan-grey waxy claystone		X
20	405	441	Blue grey waxy claystone		X
20	441	451	Clayey sandstone, some gravel		X
20	451	464	Lt. brn. grey sandy clay		X
20	464	477	Clayey sandstone, some gravel		X
20	477	481	Hard sand & gravel		X
20	481	486	Sandy clay w/ gravel		X
20	486	489	Clayey conglomerate		X
20	489	498	Lt. brn. sandy clay		X
20	498	525	Tan sticky clay (some sand)		X
20	525	530	Hard dark grey basalt		X
20	530	551	Black basalt, some orange clay		X

Completed Depth See page 2 of 2 (Measurable)

Date: Started _____ Completed _____

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 _____ Firm No. _____

Principal Driller _____ Date _____

and _____

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

*Well #7
 Culinary Well*

Form 238-7
6/02

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

Page 2 of 2

1. WELL TAG NO. D 0037120
DRILLING PERMIT NO. _____
Water Right or Injection Well No. _____

2. OWNER:

Name City of Burley
Address _____
City _____ State _____ Zip _____

3. LOCATION OF WELL by legal description:

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

Twp. 10 North ☐ or South ☒
Rge. 23 East ☒ or West ☐
Sec. 21 NW 1/4 or SW 1/4
Gov't Lot _____ County _____

Lat: _____ Long: _____
Address of Well Site Milard Ave., Approx 300' N
of Main St 50' E City Burley
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 cased out

7. SEALING PROCEDURES

Seal Material	From	To	Weight / Volume	Seal Placement Method

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 _____
Packer ☐ Y ☐ N Type _____

9. PERFORATIONS/SCREENS PACKER TYPE

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

10. FILTER PACK

Filter Material	From	To	Weight / Volume	Placement Method

11. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

_____ 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 ☐ Bailor ☐ Air ☐ Flowing Artesian

Yield gal/min.	Drawdown	Pumping Level	Time

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	Water	Y	N
20	551	566	Dark brown basalt		X	
20	566	583	Brn grey basalt w/ orange clay		X	
20	583	631	Brn. fractured basalt		X	
20	631	640	Brn. cinders / scoria		X	
20	640	665	Dark grey basalt			X
20	665	670	Fractured basalt, trace clay		X	
20	670	690	Fractured dark grey basalt		X	
20	690	705	Fractured grey basalt w/ clay		X	
20	705	722	Fractured grey basalt, trace clay		X	
20	722	724	Paleosol, sticky brn red clay			X
20	724	755	Hard grey basalt, some clay		X	
20	755	775	Fractured red brn. basalt w/ clay		X	
20	775	794	Hard dark grey basalt		X	
20	794	795	Fine black sand, heaving		X	
16	795	801	Fine black sand, heaving		X	
16	801	830	Fractured basalt w/ cinders and clay		X	

Completed Depth 830' (Measurable)
Date: Started 12/15/05 Completed 8/30/06

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 Stan Lloyd Drilling, LLC Firm No. 294
Principal Driller Alan Lloyd Date 9/2/06
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

Well # 7
culinary well

WELL DRILLER'S REPORT

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

Pumps About

1150 G.P.M.

1. WELL OWNER

Name: City of BurleyAddress: Burley IdahoOwner's Permit No. 5-WELLS

7. WATE

Static
Flow
Artr
Control
Temper

ELL

Pum

Charge

20

20

2385 ft

2395 ft

2 hrs

3 hrs

2. NATURE OF WORK

- ☒ New well ☐ Deep
☐ Abandoned (describe materials, plug depth)

3. PROPOSED USE

- ☐ Domestic ☐ Irriga
☐ Industrial ☐ Stock
☐ Other

4. METHOD DRILLED

- ☐ Rotary ☐ Air
☒ Cable ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Casing schedule: ☒ Steel ☐ Concrete ☐ Other

Thickness inches Diameter inches From feet To feet
3.75 inches 20" OD inches + 2.5 feet 18.2 feet
3.75 inches 16" ID inches + 2.5 feet 46.5 feet

Was casing drive shoe used? ☒ Yes ☐ NoWas a packer or seal used? ☐ Yes ☒ NoPerforated? ☐ Yes ☒ NoHow 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 depth 23 ft Material used in seal: ☒ Cement grout☐ Bentonite ☐ Pudding clay ☐Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing20 ft. Cement ☒ Overbore to seal depthMethod of joining casing: ☐ Threaded ☒ Welded ☐ Solvent☐ Cemented between strataDescribe access port 2" galv. pipe welded to casing

LITHOLOGIC LOG

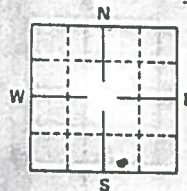
Depth	From	To	Material	Water
				Yes
0	3		surface soil	
3	20		sal. brown clay	
20	28		sand + gravel	X
28	40		gray clay	
40	48		gray clay	
48	70		gravel + sand	X
70	90		brown clay + gravel	
90	98		brown clay + sand	
98	120		brown clay	
120	145		light brown clay	
145	162		brown clay + sdy	
162	178		brown clay	
178	194		gray lava (hard)	
194	199		brown lava (soft)	
199	203		gray lava (hard)	
203	208		gray lava (base formation)	X
208	216		gray lava	
216	241		brown lava	
241	258		gray lava	
258	270		gray lava + brown clay	X
270	292		brown clay	
292	300		gray clay	
300	355		brown clay + some gravel	X
355	430		gray clay + rock	
430	465		gravel + gray clay	
465	487		gray lava (hard)	
487	492		gray + gray + gray clay	
492	497		gray lava (hard)	
497	515		gray lava (soft)	
515	530		brown clay + brown lava	X
530	545		gray + brown lava	
545	594		gray lava	
594	610		brown lava + brown	
610	615		tan clay	X
			brown sand	X

10.

Work started 3-21-86 finished 7-11-86

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name

Lot No. Block MICRO

County

SW 1/4 SE 1/4 Sec. 20, T. 10, N. S. R. 23 E. 10

11. DRILLERS CERTIFICATION

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

Firm Name Denton Well Drilling Firm No. 83Address Paul Idaho Date 7-18-86Signed by (Firm Official) Robert E. Denton

and

(Operator) Ruben W. Denton

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

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCESUSE TYPEWRITER OR
BALLPOINT PEN

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.

1. WELL OWNER

Name _____

Address _____

Owner's Permit No. _____

7. WATER LEVEL

Static water level _____ feet below land surface.

Flowing ☐ Yes ☐ No G.P.M. flow _____

Artesian closed-in pressure _____

Control by: ☐ Valve ☐ Cap ☐ Plug

Temperature _____ of. Quality _____

Describe artesian or temperature zone 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 _____

Discharge G.P.M.	Pumping Level	Hours Pumped

3. PROPOSED USE

- ☐ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

- ☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☐ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____

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

Was casing drive shoe used? ☐ Yes ☐ NoWas a packer or seal used? ☐ Yes ☐ NoPerforated? ☐ Yes ☐ NoHow 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 depth _____ Material used in seal: ☐ Cement grout☐ Bentonite ☐ Pudding clay ☐ _____Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing☐ Overbore to seal depthMethod of joining casing: ☐ Threaded ☐ Welded ☐ Solvent☐ Weld☐ Cemented between strata

Describe access port _____

9. LITHOLOGIC LOG

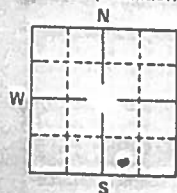
Bore Diam.	Depth From	Depth To	Material	Water Yes N
16"	615	642	gray lava (hard)	
	642	651	gray brown lava & cinders	X
	651	665	gray lava	
	665	690	gray lava & cinders	
	690	715	(could be carrying water)	X
	715	734	gray lava & cinders	
	734	750	gray lava & cinders	
16"	734	750	gray lava & cinders + coarse cluttings & soft formation	X
	750	750	brown & gray cinders + lava (hard clay hard carry water)	X

10.

Work started 7-21-86 finished 7-16-86

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County _____

SW 1/4 SE 1/4 Sec. 20, T. 10

S. R. 23 E. 100

11. DRILLERS CERTIFICATION

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

Firm Name Denton & Well Drilling Firm No. 83Address Paul, Idaho Date 7-28-86Signed by (Firm Official) Robert E. Dentonand
(Operator) Robert E. Denton

USE ADDITIONAL SHEETS

NECESSARY - FORWARD THE WHITE COPY TO THE DEPARTMENT

WELL
#3

Joley, Henry, V

Well Drillers

Murtaugh, Idaho

WELL LOG

Pumps About

950 G.P.M

23

PURCHASER: City of Burley, Idaho (culinary) 2020 park avenue

LOCATION: 225'S, 179'W of SE corner of NE $\frac{1}{4}$ c

TIME: August 12, 1960 - September 26, 1960

CASING: 150 foot, 3 inches of 20 O.D. X .200

Plus one foot doubled on bottom for

442 foot, 6 inches of 16 O.D. X .250

of which 1 $\frac{1}{2}$ foot is doubled above 3/4

Drilled diameter: 20 inch diameter well 0-30

16 inch diameter well 305-509

STATIC WATER LEVELS: first water 226 feet (cased out)

SWL 187 foot @ 187 foot depth, 9/5/60

SWL 235 foot @ 337 foot depth, 9/19/60

SWL 231 $\frac{1}{2}$ foot @ 495 foot depth, 9/23/60

SWL 226 foot @ 509 foot depth, 9/26/60

WATER TEMPERATURE: 64°F

FORMATION: first mentioned material is greatest quantity

0-3 gravel and clay

3-8 sandy clay

8-25 gravel and tan clay

25-45 brown quicksand

45-65 sand, tan clay, and gravel

65-90 sandy clay and gravel

90-95 coarse sand and gravel

95-155 tan clay, some gravel (cavy)

155-180 grey-black basalt

180-192 broken, cinder-like lava

192-225 reddish-brown lava, some talc

225-245 brown-black basalt

coarse, separated cuttings, water dirty (aquifer?)

245-280 tan-brown clay

280-310 grey-black basalt, some talc

groove with partial cutting loss 303-310, water dirty (aquifer?)

310-340 tan clay

340-360 brown clay- dry and cavy

360-375 alternate layers of sticky tan clay and hard blue clay

375-395 blue clay

395-410 sand with clay

410-435 sand, clay, and gravel (aquifer?)

435-460 grey-brown basalt with clay

separated cuttings 445-460, water dirty (aquifer)

460-475 reddish-brown lava cinders and talc (aquifer)

475-490 broken lava with red clay, some talc

490-509 dark grey basalt, some talc; hard, broken rock; loose and cavy

separated cuttings, water dirty 490-495

lost cuttings 495-502 (best aquifer)

clean, separated cuttings; partial loss 502-509 (aquifer)

Pump About
1100 GPM

4 acres

Well #10

RECEIVED
NOV 28 1960

LOG AND REPORT OF THE
FORMATION ENGINEER OF IDAHO

Department of Reclamation

County Lincoln

Shaw's Haining Project

Locate well in section

MICROFILMED

AUG 15 2002

Address Wesley Idaho

Well location E 1/4 A 1/4 Sec. 17, T. 10 N/S, R. 23 E/W

Size of drilled hole 16 5/8

NW 1/4	NE 1/4
SW 1/4	SE 1/4

Total depth of well 279 ft.

Give depth to standing water from the ground 184 Water temp. 65 °Fahr.

On "Pumping Test" delivery was not test c.f.s. Drawdown was feet.

Size of pump and motor used to make test

Length of time of test hours minutes.

If flowing well, give flow c.f.s. or g.p.m. and of shut off pressure

If flowing well, described control works

Water will be used for domestic

(TYPE AND SIZE OF VALVE, ETC.)

Weight of casing per lineal foot 5.5 # ft.

Thickness of casing 5/8 Casing material steel

(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing 16 5/8 from top of ground to 223 ft.

(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER.
CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER.)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
16 5/8	0	223	223	

Number and size of perforations located feet to feet from ground

Date of commencement of well Aug 29 1960 Date of completion of well Oct 20 1960

well.

MICROFILMED

AUG 15 2002

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
0	2	Top soil	no	
2	12	sand	yes	
12	22	sand	yes	
22	28	sand	yes	
28	38	blue clay	"	
38	46	blue clay		
46	56	sand		
56	66	sand	yes	
66	76	sand	"	
76	86	sand	"	
86	96	sand	"	
96	112	sand	"	
112	122	clay	"	
122	132	clay	no	
132	142	clay	"	
142	152	clay	"	
152	162	clay	"	
162	172	clay	"	

If more space is required use Sheet No. 2

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is true and correct to the best of my knowledge and belief.

Signed Lawrence

By _____

Dated Nov. 25, 1960

License No. 173

Well Owner Wm C. G. K. L. L.
Well Driller L. M. D.
Well Location 6 S. 38 E. 17 N. 5 W.

[illegible]

AUG 15 2002

TYPEWRITER OR
PENCIL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REP

State law requires that this report be filed with the Director, Department of Water Administration, within 10 days after the completion or abandonment of the well.

Pumps About

1700 GPM

1. WELL OWNER

Name City of Burley
Address Casey county Burley Idaho
Owner's Permit No. _____

7. WATER LEVEL

Static water
Flowing? ☐
Temperature _____
Artesian clos _____
Controlled by _____

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandonment) _____

8. WELL TEST

☒ Pump

Discharge G.P.M.	Draw Down	Hours Pumped
2300 4.89 cwt/sec	24ft.	10 hrs.

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type) _____
☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection _____

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Diameter of hole 70 inches Total depth 630 feet
Casing schedule: ☒ Steel ☐ Concrete
Thickness 3/8 inches Diameter 20 inches From 2 feet To 140 feet
20 inches 16 inches 132 feet 419 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 3 inches by 1/2 inches
Number 1120 perforations From 379 feet To 419 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

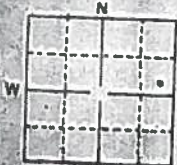
Surface seal depth 40 feet Material used in seal ☒ Cement grout ☐ Well cuttings
☐ Pudding clay ☐ Temporary surface casing
Sealing procedure used ☐ Sherry pit ☐ Dry bore to seal depth

9. LITHOLOGIC LOG

Hole Diam.	Depth		Material	Water	
	From	To		Yes	No
24	0	2	sdv soil		
24	2	5	sand		
24	5	45	sandy clay & gravel		
24	45	55	sand, sdv. clay, gravel		
24	55	97	gravel & sand		
24	97	112	brown sdv. clay & gravel		
24	112	135	tan clay		
20	135	185	gray lava		
20	185	197	black lava		
20	197	212	gray lava		
20	212	227	hard gray rhyolite		
20	227	239	brown lava		
20	239	258	black lava		
20	258	265	clay, gravel & lava		
20	265	285	gravel & sand		
20	285	315	clay & gravel		
20	315	355	tan sdv. clay & gravel		
20	355	415	gray sdv. clay		
16	415	423	soft black lava		
16	423	443	gray lava & gray sandstone		
16	443	452	gray lava (hard)		
16	452	468	gray lava cinders & clay		
16	468	487	dark gray lava		
16	487	525	gray lava (hard)		
16	525	545	brown lava, red clay		
16	545	555	gray lava cinders, clay		
16	555	570	gray lava		
16	570	575	hard gray lava		
16	575	593	brown lava & cinders		
16	593	607	gray lava cinders		
16	607	623	hard gray lava		
16	623	630	brown lava cinders		

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Cassia

Subdivision Name _____

Lot No. _____ Block No. _____

1/4 Sec. _____ T. _____ S. _____ E/W _____

10.

Work started 11-12-76 finished 1-14-77

11. DRILLERS CERTIFICATION

Firm Name R.O. Denton & Son Firm No. _____
Address Paul, Idaho Date 2-2-77
Signed by (Firm official) Robert O. Denton
or (Operator) 20 25 0 4

USE ADDITIONAL SHEETS IF NECESSARY

FORWARD THE WHITE COPY TO THE DEPARTMENT

WELL DRILLER'S REPORT

Use Typewriter or Ballpoint Pen

Pumps About
2000 GPM

1. DRILLING PERMIT NO. 45-97-S-0065-000

Other IDWR No. Tag # D 0002353

2. OWNER:

Name City of Buckley

Address Box 1090 East

City Buckley State ID Zip 83318

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location.

N		Twp. <u>10</u>		North ☐	or	South ☒
W		Rge. <u>23</u>		East ☒		West ☐
E		Sec. <u>33</u>		SW 1/4 NW 1/4 1/4 160 acres		
S		Gov't Lot		County <u>Cassia</u>		
		Lat:		Long:		

Address of Well Site Hiland Ave

3 1/2 mile S. of 100 S. Road City Buckley ID

(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

SEA/FILTER PACK			AMOUNT		METHOD
Material	From	To	Sacks or Pounds		
Portulacite Cement	0	140'	144 bags		OVER HOLE
Cement	135'	140'	11 bags		dr. H. & F. Cement
Cement	455'	478'	18 bags		dr. H. & F. Cement

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 453'

Was drive shoe seal tested? ☐ Y ☐ N How? _____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
24"	14	140'	.375	Steel	☒	☐	☒	☐
20"	14	453'	.375	Steel	☒	☐	☒	☐

Length of Headpipe _____ Length of Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations Method _____
☐ Screens Screen Type _____

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

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

289.4 ft. below ground Artesian pressure _____ lb.

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

11. WELL TEST

☐ Pump

Yield gal./min.

Water Temp. _____

Water Quality test _____

12. LITHOLOG

Bore Dia.	From	To	
28"	0	3'	
28"	3'	4'	
28"	4'	7'	Brown Clay
28"	7'	18'	Sand & Gravel
28"	18'	56'	Brown Clay
28"	56'	98'	Sand, Gravel, Sand Clay
28"	98'	110'	Sand & Gravel
28"	110'	139'	Brown Clay
28"	139'	185'	Black Lava
28"	185'	215'	Gray Lava
28"	215'	232'	Red Lava
28"	232'	275'	Gray Lava
28"	275'	285'	Black Lava, Red Clay, & Sand
28"	285'	306'	Clay & Sand
28"	306'	320'	Sand
28"	320'	333'	Sand & Brown Clay
28"	333'	455'	Brown Gravel Clay
28"	455'	478'	Gray Lava
28"	478'	478'	Black Lava, Sand, Clay
28"	478'	490'	Black Lava
28"	490'	513'	Black Lava
28"	513'	554'	Red & Black Lava, Sand Clay
28"	554'	570'	Red & Black Lava
28"	570'	578'	Clay, Rock, Black Lava
28"	578'	642'	Reddish Black Lava, Broken
28"	642'	650'	Acas, Clay, Chunks
28"	650'	650'	Gray Lava to Black Sand
28"	650'	650'	Broken

Completed Depth 650 FT. (Measurable)

Date: Started 2/9/98 Completed 4/21/98

13. DRILLER'S CERTIFICATION

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

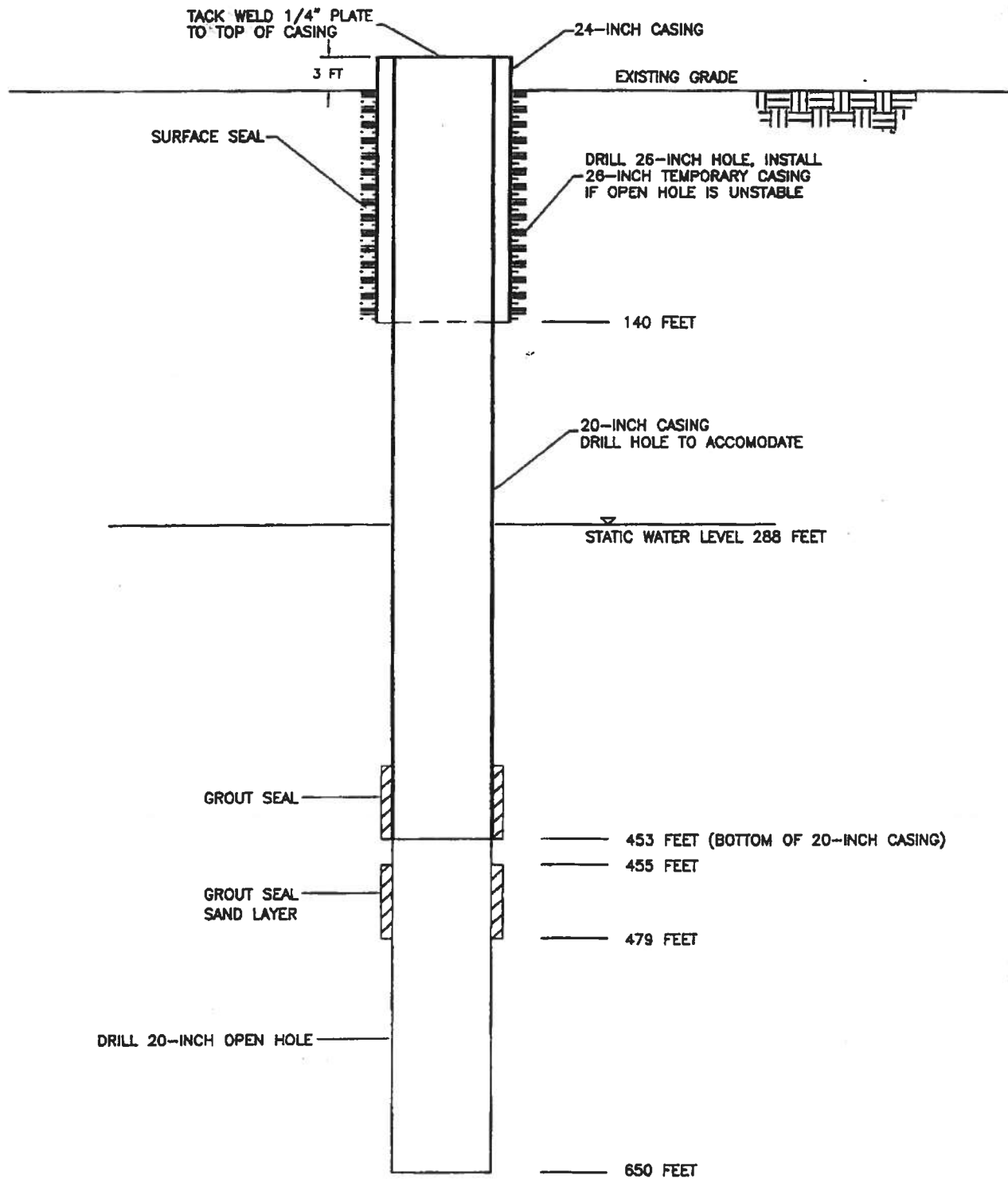
Firm Name Vallin's Well Drilling Firm No. 383

Firm Official Rene L. Vallin Date 5/28/98

and _____

Supervisor or Operator Rene L. Vallin Date 5/28/98

(Sign once if Firm Official & Operator)



DRAWING OF RECORD

PROPOSED WELL SCHEMATIC
 1997 MUNICIPAL WELL #6 PROJECT
 MICROFILME CITY OF BURLEY, IDAHO

AUG 15 2002

N.T.S.