Appendix 1:
Well Driller's Logs

F:\PROJECTS\KETCHUM CITY - SOUTHGATEWAY WATER SUPPLY\ARCVIEW MAPS\HYDROLIC COND EST MAP.MXD

0 800 1,600 Feet

CITY OF KETCHUM
SOUTHERN GATEWAY WATER STUDY
NAIP 2011 AERIAL

CHSubDist
- CH-C
- CH-E
- CH-LI
- CH-S
- CH-W

Wells_in_Hydrolic_Conductivity_Est
twnshp
Section_Lines
ladesc

N

BROCKWAY ENGINEERING, PLLC.
ALR - NOV. 20, 2012

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Reclamation

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
DEC 5 1969
Department of Reclamation

1. WELL OWNER

Name Ready to Pour

Address Box 274 Twin Falls Ida

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 42 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+1 feet	42 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 3/8 inches by 2 inches

Number		From	To
40	perforations	35 feet	40 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

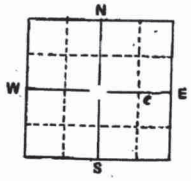
Placed from feet to feet

Surface seal? ☒ Yes ☐ No To what depth 18 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Blaine

NE ¼ SE ¼ Sec. 30, T. 4 N/S R. 18 E/W

7. WATER LEVEL

Static water level 29½ 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
50	18"	4

39777

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6"	0	12	Gravel		X
	12	36	Sand & Clay	X	
	36	40	Gravel	X	
	40	42	Decomposed Granite Rock		X

10.

Work started 11-30-69 finished 11-31-69

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Roessler Well Drilling 19
Driller's or Firm's Name Number

Address Shoshone Ida

Signed By Geo Roessler 12-22-69
Date

USE ADDITIONAL SHEETS IF NECESSARY

361316

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 Thomas Hormel

Address Box 2224 Ketchum, Id. 83340
Water permit. no. 37-08560

Owner's Permit No. 37-89-[illegible]009-000

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	8 inches	+ 1½ feet	38½ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☒ Knife ☐ Torch ☐ Gun
Size of perforation ½" inches by ¼" inches

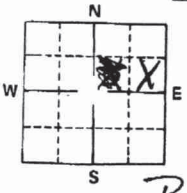
Number		From	To
.250	perforations	28 feet	35 feet
_____	perforations	_____ feet	_____ feet
_____	perforations	_____ feet	_____ feet

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 20 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

DEC 12 1991

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name RIVER EDGE RANCH
Lot No. 1 Block No. _____
County BLAINE
SE ¼ NE ¼ Sec. 30, T. 4 ☒ N ☐ S, R. 18 ☒ E ☐ W

7. WATER LEVEL

Static water level 12 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
100	35	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	6	Topsoil		x
8	6	12	Sand and gravel	x	
8	12	35	Gravel	x	
6	35	40	Sand and gravel	x	

RECEIVED
JUN 14 1990
Department of Water Resources
Southern Region Office

RECEIVED
JUN 21 1990
Department of Water Resources

10.

Work started 5-15-90 finished 5-16-90

11. DRILLERS CERTIFICATION

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

Firm Name WOOD RIVER DRILLING AND PUMP Firm No. 265
BOX 1165 788-3163
Address HAILEY, IDAHO 83333 Date 5-29-90

Signed by (Firm Official) Ron Smith
and
(Operator) Rod McGuire

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

31987

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamat
within 30 days after completion or abandonment of the w

Location Corrected by IDWR To:
T04N R18E Sec. 31 SENWSE
By: mciscell 2012-10-10

1. WELL OWNER

Name EXAMINER REALTY CORPORATION

Address Twin Falls Idaho

Owner's Permit No. 37-7112

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 16 inches Total depth 88 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	20 inches	+1 feet	-19'8" feet
.312 inches	16 inches	+2 feet	-78'7" 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 ¾ inches by 3/8 inches

Number		From	To
64	perforations	-24 feet	-52 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 ____

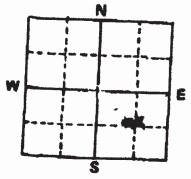
Placed from ____ feet to ____ feet

Surface seal? ☒ Yes ☐ No To what depth 20 feet

Material used in seal ☒ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County BLAINE

NE ¼ SE ¼ Sec. 31, T. 4 N/S, R. 18E E/W

7. WATER LEVEL

Received Idaho Department of Water Administration

Static water level 14' 6" 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
Approx 500	to 17'3"	5

9. LITHOLOGIC LOG

39770

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
	0	3	Sand & Gravel		
	3	13	Course Gravel, Clay & Boulders		
	13	24	Clay course gravel & sand		
	24	52	Medium gravel sand clay	x	
	52	56	Yellow clay		
	56	80	Cracked black rock with clay seams		
	80	88	Rock clay Hard		

10.

Work started 9/16/71 finished 11-3-71

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

SMITH DRILLING & PUMP CO., INC. 11
Driller's or Firm's Name Number

365 West Main Jerome, Idaho 83338
Address

Signed By S. H. B. Mins 11-8-71
Date

USE ADDITIONAL SHEETS IF NECESSARY

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

262032

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Reclamation

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.

1. WELL OWNER

Name Joe S. Goitiandia

Address South of Ketchum, Idaho

Owner's Permit No. 37-7460 Applied For

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 221 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
280 inches	6" ID inches	+1 feet	37 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 _____

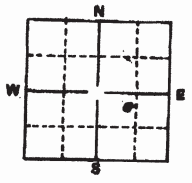
Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth 18 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



37

County Blaine

¼ ¼ Sec. 31 T. 4 N/S R. 18 E/W

7. WATER LEVEL

Static water level 15 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
10 G.P.M.	208	1

39772

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
9 3/8	0	5	Black top soil		
"	5	18	Brown clay and sand		
6"	18	37	Brown clay and sand		
6"	37	60	Bluish grey rock		
6"	60	61	Light brown rock (scoria)	x	
6"	61	103	Light brown rock		
6"	103	104	Blue rock (scoria)	x	
6"	104	135	Bluish rock		
6"	135	170	Brown rock		
6"	170	213	White rock		
6"	213	220	Decomposed granite		
6"	220	221	Decomposed brown rock (scoria	x	

10.

Work started 16 Apr 1970 finished 24 Apr 1970

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

ROESSLER WELL DRILLING 19
Driller's or Firm's Name Number

Shoshone, Idaho
Address

Ray Roessler 22 May 1970
Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

362030

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

RECEIVED DEC 9 1976 Department of Water Resources Southern District Office

RECEIVED JUL 8 1976 Department of Water Resources Southern District Office

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 Charles Wister

Address Box 951 Sun Valley, Idaho

Owner's Permit No.

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 35 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+ 1 feet	35 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No

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

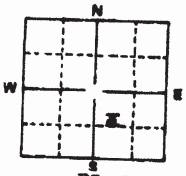
Placed from feet to feet

Surface seal depth 18' Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name

Lot No. Block No.

County Blaine

N. W. ¼ S. E. ¼ Sec. 31, T. 4 N. N/S, R. 18 E E/W

7. WATER LEVEL

Static water level 8 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow

Temperature ° F. Quality good

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
40	5'	1

9. LITHOLOGIC LOG 033816

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8"	0	2	Top soil		X
8"	2	10	Sand and gravel	X	
8"	10	18	Gravel set in clay		X
6"	18	30	Gravel set in clay		X
6"	30	35	River gravel		X

10.

Work started 4/20/76 finished 4/21/76

11. DRILLERS CERTIFICATION

Firm Name Ken Smith Well Drilling Firm No. 265

Address Box 1165 Hailey, Idaho Date 5/2/76

Signed by (Firm Official) Ken Smith

and

(Operator) Ken Smith

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

373103

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

RECEIVED
NOV 10 1971
Department of Water Administration

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

1. WELL OWNER

Name Fred Beam

Address Hailey, Idaho

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 8 inches Total depth 20 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	8 ID inches	+1½ feet	19 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

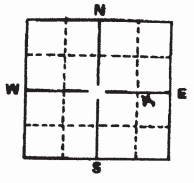
Placed from feet to feet

Surface seal? ☒ Yes ☐ No To what depth 18 feet

Material used in seal ☒ Cement grout ☐ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County BLAINE

NE ¼ SE ¼ Sec. 31, T. 4 N/S, R. 18 E/W

Lot 5 of Wood River Ranch Sub. Division

7. WATER LEVEL

Static water level 918 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
Approx 200	None	1

9. LITHOLOGIC LOG

39775

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	3	Top Soil Soft Black		
	3	12	Brown Clay gravel		
	12	17	Sand Course Gravel	trace	
	17	18½	Yellow clay		
	18½	20	Very course gravel & boulders	X	

10.

Work started 11/3/71 finished 11/6/71

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

SMITH DRILLING & PUMP CO., INC. 11
Driller's or Firm's Name Number

365 West Main Jerome, Idaho 83338
Address

Signed By [signature] 11-9-71
Date

USE ADDITIONAL SHEETS IF NECESSARY

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

862027

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

RECEIVED
JUN 19 1974
Department of Water Administration
Southern District Office

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.

1. WELL OWNER

Name Jack Dodge

Address Gimlet

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6" inches Total depth 30 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+ 1 feet	30 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

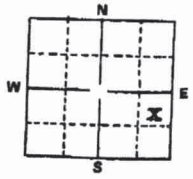
Surface seal? ☒ Yes ☐ No To what depth 18 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.

37



County Blaine

ne ¼ se ¼ Sec. 31, T. 4 N N/S, R. 18 E E/W

7. WATER LEVEL

Static water level 6 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow 30

Temperature ° F. Quality good

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
30	6 ft.	one

9. LITHOLOGIC LOG

033819

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	3	Top Soil		X
8	3	12	Sand With Water	X	
8	12	18	Pea Gravel & Sand	X	
6	18	22	Gravel Set in Clay		X
6	22	26	Gravel & Water	X	
6	26	30	River Gravel & Coarse Sand	X	

10.

Work started June 11 1974 Completed June 12, 1974

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Ken Smith Well Drilling — 365
Driller's or Firm's Name — Number

Box 1165 Hailey Idaho
Address

Signed By

USE ADDITIONAL SHEETS IF NECESSARY

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

373105

Form 238-7
1/78

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

RECEIVED JUL 6 1981 Department of Water Resources Southern District Office

1. WELL OWNER

Name Henery Whiting

Address Ketchum Idaho

WELL located at Gimlet

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 ☐ 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
.250 inches	8 inches +	1 feet	42 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☒ Knife ☐ Torch
Size of perforation 1/2 inches by 1/4 inches

Number		From	To
8 Per Ft.	perforations	30 feet	42 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 18 Material used in seal: ☐ Cement grout ☒ Puddling clay ☐ Well cuttings
Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing ☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name
Lot No. Block No.

County Blaine

NE ¼ SE ¼ Sec. 31, T. 4 ☐N ☐S, R. 18 ☐E ☐W.

7. WATER LEVEL

Static water level 6 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow
Artesian closed-in pressure p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature °F. Quality

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Air ☐ Other

Discharge G.P.M.	Pumping Level	Hours Pumped
45	12	2

9. LITHOLOGIC LOG

86086

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	3	Top soil		x
8	3	18	Gravel set in clay		x
8	18	30	Hard pan		x
8	30	42	Coarse sand & gravel	x	
3	42	72	Brown shale		x

JUL 6 1981
Department of Water Resources

10.

Work started 5-28-81 ab dt finished 6-6-81

11. DRILLERS CERTIFICATION

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

Ken Smith Well Drilling
Firm Name Firm No. 265
Box 1155 Hailey Idaho
Address Date 6-30-81
Signed by (Firm Official) Ken Smith
and
(Operator) Gary D. Jones

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

394659

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

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
DEC 15 1970
Department of Water Administration

1. WELL OWNER

Name William Larzeler

Address 9713 Sylvia Ave. North Ridge, Calif. 91234

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 90 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+1 feet	46 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

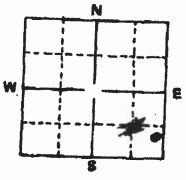
Placed from feet to feet

Surface seal? ☒ Yes ☐ No To what depth 18 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Blaine

SE ¼ SE ¼ Sec. 31 T. 4 N/S, R. 18 E/W

Lot 19 Gimlet Sub Division #2

USE ADDITIONAL SHEETS IF NECESSARY

7. WATER LEVEL

Static water level 14 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
36	8'	1

9. LITHOLOGIC LOG

39771

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
23/8	0	16	Gravel & small boulders	X	
"	16	18	Sand & clay		X
6"	18	43	Sand & clay		
6"	43	82	Brown sandstone		
6"	82	83	Scoria	X	
6"	83	90	Gray sandstone		

10.

Work started 3 Nov 70 finished 8 Nov 70

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

ROESSLER WELL DRILLING 19
Driller's or Firm's Name Number

Shoshone, Idaho
Address

Roy Roessler 24 Nov 70
Signed By Date

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

362031

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

RECEIVED
NOV 12 1975
Department of Water Resources
Southern District Office

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 RICK FABINO

Address KETCHUM IDAHO

Owner's Permit No.

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☑ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 47 feet

Casing schedule: ☑ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+ 1 feet	47 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☑ Yes ☐ No

Was a packer or seal used? ☐ Yes ☑ No

Perforated? ☑ Yes ☐ No

How perforated? ☐ Factory ☑ Knife ☐ Torch

Size of perforation ¼ inches by 2 inches

Number	From	To
44 perforations	30 feet	45 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

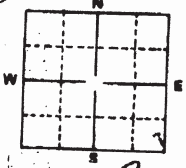
Surface seal depth 18' Material used in seal ☐ Cement grout ☑ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☑ Temporary surface casing ☑ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.

35



Subdivision Name

Lot No. Block No.

County BLAINE

SE ¼ SE ¼ Sec. 31 T. 4 N. R. 18 E.

7. WATER LEVEL

Static water level 20 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
40	NONE	1

9. LITHOLOGIC LOG 033818

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6"	0	3	TOPSOIL & BOULDERS		✓
	3	28	CLAY & BOULDERS		✓
	28	45	CLAY & GRAVEL		✓
	45	47	LIMESTONE	✓	

10.

Work started 2 SEPT. 75 finished 5 SEPT. 75

11. DRILLERS CERTIFICATION

Firm Name K&R LAND & WATER Firm No. 287

Address DIETRICH IDAHO Date 6 SEPT. 75

Signed by (Firm Official) Norman Ridinger

and

(Operator) Norman Ridinger

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

373104

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

RECEIVED
JUL 8 1976
Department of Water Resources
Southern District Office

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.

RECEIVED
JUL 12 1976
Department of Water Resources

1. WELL OWNER

Name George Dondero

Address Box 1581 Ketchum, Idaho

Owner's Permit No.

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 44 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+ 1 feet	44 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No

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

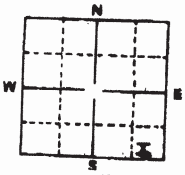
Placed from feet to feet

Surface seal depth 18' Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name Gimlet

Lot No. 20 Block No.

County Blaine

S.E. ¼ S.E. ¼ Sec. 31 T. 4 N. N/S, R. 18 E. E/W

7. WATER LEVEL

Static water level 10 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow

Temperature ° F. Quality good

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
40	8.1	1

9. LITHOLOGIC LOG 033817

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8"	0	3	Sandy top soil		x
8"	3	10	Gravel and boulders		x
8"	10	14	Sand and gravel	x	
8"	14	18	Gravel set in clay		x
6"	18	26	Gravel set in clay		x
6"	26	32	Sand and gravel	x	
6"	32	41	Gravel set in clay		x
6"	41	44	River gravel	x	

10.

Work started 4/21/76 finished 4/24/76

11. DRILLERS CERTIFICATION

Firm Name Ken Smith Well Drilling Firm No. 265

Address Box 1165 Hailey, Idaho Date 5/3/76

Signed by (Firm Official) Ken Smith

and

(Operator) Ken Smith

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

373106

Form 238-7
1/78

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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.

RECEIVED
JUL 27 1982
Department of Water Resources
Southern District Office

1. WELL OWNER

Name JOE B. SAVIERS
Address BOX 106, SUN VALLEY, IDA 83350
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 ☐ 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
.250 inches	6 inches +	1 feet	45 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

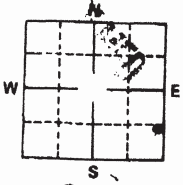
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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 depth 18 Material used in seal: ☐ Cement grout ☐ Puddling clay ☒ Well cuttings
Sealing procedure used: ☒ Slurry pit ☐ Temp. surface casing ☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name GAMLET #9
Lot No. 5 Block No. _____
County BLAINE
SE ¼ SE ¼ Sec. 31, T. 4 N/S R. 18 E/W.

7. WATER LEVEL

Static water level 4 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ P.S.I.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
40	15'	1

079110

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6"	0	5	BROWN SOIL	X	
"	5	11	LARGE BOULDERS	X	
"	11	12	COARSE SAND	X	
"	13	40	GRAVEL & SAND, CLAY	X	
"	40	45	LOOSE BROWN SANDSTONE		
"	45	54	HARD LIMESTONE		
"	54	55	" SCORIA	X	
"	55	58	HARD BROWN LIMESTONE		

10.

Work started 15 MAY 82 finished 20 MAY 82

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.
RAY ROESSLER
Firm Name WELL DRILLING Firm No. 262
129 5TH AVE E.
Address GOODING, IDA 83330 Date 22 MAY 82
Signed by (Firm Official) Ray Roessler
and
(Operator) Ray Roessler

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

Saviers

Unagi-

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

RECEIVED
DEC 9 1976
Department of Water Resources
Southern District Office

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

1. OWNER
Name Jerry Kirkman
Address Ketchum, Idaho (Coldsprings)
Owner's Permit No. 37-7506WR

2. NATURE OF WORK
☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE
☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED
☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION
Diameter of hole 12 inches Total depth 84 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	12 inches	+1 feet	74 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 1¼ inches by ¼ inches

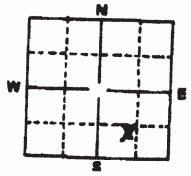
Number	From	To
400 perforations	45 feet	65 feet
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet

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 20' Material used in seal ☒ Cement grout ☐ Puddling clay ☐ Well cuttings
Sealing procedure used ☐ Slurry pit ☐ Temporary surface casing ☒ Overbore to seal depth

6. LOCATION OF WELL
Sketch map location must agree with written location.



Subdivision Name ____
Lot No. ____ Block No. ____
County Blaine
SW ¼ se ¼ Sec. 31 T. 4N N/S, R. 18E E/W

7. WATER LEVEL
Static water level 35 feet below land surface
Flowing? ☐ Yes ☒ No G.P.M. flow ____
Temperature ____ ° F. Quality good
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
60	nil	2

033815

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
16"	1	2	Top soil and gravel		X
16"	2	20	Gravel set in clay		X
12"	20	45	Gravel set in clay		X
12"	45	65	Water gravel	X	
12"	65	74	Hard pan gravel	X	
12"	74	84	Limestone		X

10. Work started 7/5/76 finished 7/21/76

11. DRILLERS CERTIFICATION
Firm Name Ken Smith Well Drilling Firm No. 265
Address Box 1165 Hailey, Idaho Date 7/31/76
Signed by (Firm Official) Ken Smith
and
(Operator) Gary Jones

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

373101

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Reclamation

WELL DRILLER'S REPORT

RECEIVED
FEB 23 1970
Department of Reclamation

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

1. WELL OWNER

Name Chalet Motel
Mrs. Velma Swanson owner
Address Ketchum Sun Valley Ida

Owner's Permit No. none

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 80 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6-5/8 inches	+1 feet	50 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

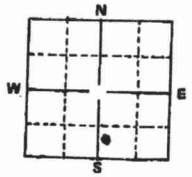
Well screen installed? ☐ Yes ☒ No
Manufacturer's name ____
Type ____ Model No. ____
Diameter ____ Slot size ____ Set from ____ feet to ____ feet
Diameter ____ Slot size ____ Set from ____ feet to ____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel ____
Placed from ____ feet to ____ feet

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

6. LOCATION OF WELL

Sketch map location must agree with written location.



37
County Blaine
SW¼ SE¼ Sec. 31 T. 4 N☒ R. 18 E/W

7. WATER LEVEL

Static water level 30 feet above 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
40	8 ft	10

9. LITHOLOGIC LOG

041520

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6"	0	49	Gravel + Boulders		X
6"	49	65	Fine Gravel + Clay	X	
6"	65	78	Brown Clay		X
	78	80	Washed Rivers Gravel Coarse	X	

10.

Work started 6-12-65 finished 6-15-65

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

Geo Roessler 19
Driller's or Firm's Name Number

Hailey Ida
Address

Geo Roessler 12-26-69
Signed By Date

USE ADDITIONAL SHEETS IF NECESSARY

38843

WELL LOG AND REPORT TO THE STATE RECLAMATION ENGINEER OF IDAHO

Log No. RECEIVED
Rec. DEC 29 1953
Well Department of Reclamation
Permit No. 034455
(DO NOT FILL IN)

Owner E. J. ODERMATT Driller EUGENE W WALKER
Address KETCHUM Address TWIN FALLS Lic. No. 15
Location of Well: FRACTIONAL PART ~~1/4~~ SE 1/4 Sec. 31, T. 4 N, R. 18 E ~~W~~ BLAINE County.
and 2616.0' feet ~~N~~ S, and 1834.6' feet ~~E~~ W from NE corner of ~~1/4~~ 1/4 Sec. 31
Water will be used for DOMESTIC & IRRIGATION Total depth of well 296
Size of drilled hole 8 inch Weight of casing per linear foot 25 & 28
Thickness of casing .277 and 322 Casing material Pipe
(e.g., pipe, concrete, wood.)
Diameter, length and location of casing 8" 45½ ft Surface
(Casing 12" in diameter and under give inside diameter; casing over 12" in diameter give outside diameter.)
Number and size of perforations 25 ¼" x 6 located 38 feet to 43 feet
from surface of ground.
Other perforations: none
If flowing well, give flow in c.f.s. ____ or g.p.m. ____ and shut in pressure ____
If non-flowing well, give depth of standing water from surface 35½
If flowing well, describe control works ____
(Type and size of valve, etc.)
On pumping test delivery was 1000 g.p.m. or ____ c.f.s. Drawdown was 90 feet
Length of time pumped during check was 2 hr. ____ min. Water temp. 53 - 64° Fahrenheit.
Date of commencement of well Oct. 9 1953 Date of completion of well Nov. 28
Type of well rig CHURN

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	"Remarks" — Seals, Grouting, Etc.

GENERAL INFORMATION — Pumping Test, Quality of Water, Etc.

W½ SE 5.31 4N 18E

374262

WELL LOG

From Feet	To Feet	Type of Material	Drilling Time Hrs.	Drilling Time Min.	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
0	4	Surface gravel & dirt	1		No	No
4	40	Gravel boulders & sand	66		Yes	40 ft
40	43	Clay		30		
43	83	Brown decomposed ANDESITE	15	30	83	
83	105	Green ANDESITE	7		100 to 105	
105	125	Green " . With streams of Clay	13		No	
125	146	Green ANDESITE	8		No	
146	153	" "	5		No	
153	173	" " with seam of Clay	12		No	
173	181	" grey "	5		No	
181	206	Green & grey & Black ANDESITE	12		No	
206	229	" & grey ANDESITE	10		No	
229	233	Green ANDESITE	3		No	
233	243	" "	8		No	
243	254	" "	10		No	
254	264	" "	10			
264	275	Layer of Rock & Clay about 1 foot	8		275	
275	292	FAULT - Clay - Brecciated Shale & Sand	100	caving	No	
292	296	If more space is required use Sheet No. 2 Hard Rock - Could be lime	8			

WELL DRILLERS STATEMENT

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

NOTARIZATION NOT NECESSARY UNDER NEW LAW.

Signed Eugene H Walker

By _____

License No. _____

Dated _____, 19____.

Subscribed and sworn before me this _____ day of _____, 19____.

_____
Notary Public

My commission expires _____

_____
Residing at

Form 238-7
1/94

C

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter or Ball Point Pen

56033

1. DRILLING PERMIT NO. 37-93-S.0134-000
Other IDWR No.

2. OWNER:
Name JAMES WELSH
Address P.O. BOX 3880
City KETCHUM State ID Zip 83340

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

Twp. 4 North ☑ or South ☐
Rge. 18 East ☑ or West ☐
Sec. 31, NE 1/4 (10 acres) NE 1/4 (40 acres) ____ 1/4 (160 acres)
Gov't Lot ____ County

Address of Well Site 101 Red Cliffs Rd.
(Give street name of road + Distance to Road or Landmark) City Ketchum

Lt. 1 Blk. ____ Sub. Name Redcliff Sub.

4. PROPOSED USE:
☑ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK
☑ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD
☐ Mud Rotary ☑ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
BENTONITE	0	20	12 SKS	DUMP

Was drive shoe used? Y ☑ N ☐
Was drive shoe seal tested? Y ☐ N ☐ How?

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
6 + 1/2	43	.250	STEEL	☑	☐	☑	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ~ Length of Tailpipe ~

9. PERFORATIONS/SCREENS
☑ Perforations Method SAW
☐ Screens Screen Type

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
40	100	1/8"	50	3"	PLASTIC	☐	☐
						☑	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
17 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
40		100	1

Water Temp. ~ 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	Water N
8	0	5	TOP SOIL		✓
8	5	15	SAND & CLAY		✓
8 & 6	15	27	GRAVEL & CLAY	✓	
6	27	43	GRAVEL, SAND, CLAY	✓	
6	43	90	GRANITE & BLUE CLAY		✓
6	90	100	GRANITE	✓	

RECEIVED
NOV 3 1993
Department of Water Resources

RECEIVED
APR 20 1994
Department of Water Resources
Southern Region Office

MICROFILMED
MAY 08 1995

Completed Depth 100 (Measurable)
Date: Started 9/26/93 Completed 9/27/93

13. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was released

Firm Name RIVER DRILLING & PUMP BOX 837 BELLEVUE, ID 83313 Firm No. 265
Firm Official Ken Smith Date 10-24-93
and
Supervisor or Operator [signature] Date 10-24-93
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

213729

Form 238-7
9/82

C

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 Wallace Huffman

Address Box 478 Sun Valley, ID 83353

Owner's Permit No. 37-88-S-049-002 OK 5-17-89

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches +	1 feet	38 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

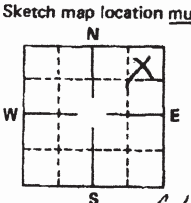
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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 depth 20 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name Huffman Bender Cox
Lot No. 2 Block No. _____
County BLAINE
NE ¼ NE ¼ Sec. 31, T. 4 (N)S, R. 18 (E)W.

7. WATER LEVEL

Static water level 5 feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
30	35	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	7	Top soil and boulders		x
8	7	20	Gravel set in clay		x
6	20	30	Gravel		x
6	30	38	water, gravel and boulders	x	

RECEIVED
MAY 17 1989
Department of Water Resources
Southern Region Office

MAY 23 1989

MICROFILMED
JUN 20 1991

10.

Work started May 2, 89 finished May 2, 89

11. DRILLERS CERTIFICATION

OL

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

Firm Name: WOOD RIVER DRILLING AND PUMP BOX 1105 HAILEY IDAHO 83333 Firm No. 265
Address _____ Date 5-5-89
Signed by (Firm Official) Ken Smith
and
(Operator) Gary Jones

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

3148162

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Reclamation

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.

1. WELL OWNER

Name R. S. Petersen

Address Hetchum Ida

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 Inches Total depth 192 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+1 feet	20 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

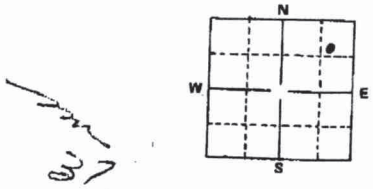
Placed from feet to feet

Surface seal? ☒ Yes ☐ No To what depth 19 feet

Material used in seal ☐ Cement grout ☒ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Blaine

N.E. ¼ N.E. ¼ Sec. 31, T. 4 N/S, R. 18 E/W

7. WATER LEVEL

Static water level 16 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
10	185	2

9. LITHOLOGIC LOG 39773

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6"	0	2	Topsoil		X
"	2	17	Boulders & Gravel		X
	17	52	Brown Shale		X
	52	56	Green Soft Rock		X
		56	Small Cracks	X	
			W/5 G.P.M.		
	56	142	Green Decomposed Rock		X
	142	168	Grey Sticky Clay		X
	168	189	Green Decomposed Rock		X
		189	5 G.P.M.	X	
	189	192	Granite		X

10.

Work started 10-20-69 finished 10-30-69

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

George J Roessler 19
Driller's or Firm's Name Number

Address Shoshone Ida

Signed By Geo J - Roessler Date 11-22-69

USE ADDITIONAL SHEETS IF NECESSARY

362029

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 John McDonald

Address Box 1 Ketchum, Id. 83340

Owner's Permit No. 37-90-S-103 OK

2. NATURE OF WORK

☐ New well ☐ Deepened ☒ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches +	1 feet	36 feet
PVC inches	SDR inches	10 feet	200 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

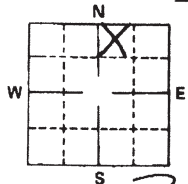
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation 1/8" inches by 3 inches

Number		From	To
2 per 10 ft	perforations	30 feet	198 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 20ft Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County BLAINE
NW¼ NE¼ Sec. 31, T. 4 N ☐ S ☐ R. 18 E ☒ W ☐

7. WATER LEVEL

Static water level 12ft feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☒ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
40	33 ft.	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	3	Topsoil		x
8	3	7	Sand		x
8	7	35	Gravel and clay		x
6	35	40	Granite		x
6	40	42	Blue rock		x
6	42	70	Granite		x
6	70	80	Granite and sand		x
6	80	195	Granite gray	x	
6	195	204	Brown granite	x	
6	204	210	Blue rock		x

RECEIVED
JUL - 3 1990
Department of Water Resources
Southern Region Office

RECEIVED
JUL 10 1990
Department of Water Resources

10.

Work started 6-26-90 finished 6-27-90

11. DRILLERS CERTIFICATION

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

Firm Name WOOD RIVER DRILLING AND PUMP Firm No. 265
Address ~~BOX 1165 788-3163~~ HAILEY, IDAHO 83333 Date _____
Signed by (Firm Official) Ron Smith
and
(Operator) Rod McGuire

RECEIVED
DEC 12 1990

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

314493

Form 238
9/82

RECEIVED
JUL 26 1984

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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.

Department of Water Resources

RECEIVED
JUL 2 1984
Department of Water Resources
Southern District Office

1. WELL OWNER (Jim Bother - CONTRACTOR)

Name Ray A. Hoffman

Address #2 Cricklewood Path
Pasadena, CA 91107

Owner's Permit No. 37-84-C-0027-000

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches + 20" M.		58 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

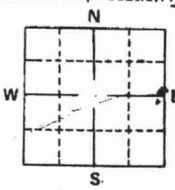
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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 depth 18 Material used in seal: ☐ Cement grout
☐ Bentonite ☒ Puddling clay ☐ _____
Sealing procedure used: ☒ Slurry pit ☐ Temp. surface casing
☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name R T Huffman - Beckley Cox Subdivision
Lot No. 5 Block No. _____
County BLAINE
SE ¼ NE ¼ Sec. 31, T. 4 N, R. 18 E W.

7. WATER LEVEL

Static water level 5 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
10	128'	1

9. LITHOLOGIC LOG

71790

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
6"	0	2	SMALL GRAVEL & SAND		
"	2	8	SMALL BOULDERS & SAND	X	
"	8	20	LARGE BOULDERS & GRAVEL	X	
"	20	38	LARGE BOULDERS CLAY & SAND	X	
"	38	40	COARSE SAND & BROWN CLAY		
"	40	47	SOFT BROWN SANDSTONE		
"	47	56	SOFT GREY SANDSTONE		
"	56	64	GREY SANDSTONE		
"	64	65	" " SCORIA (SMALL AMOUNT)	X	
"	65	75	GREY SANDSTONE		
"	75	102	LIGHT BLUE SANDSTONE		
"	102	104	DARK GREY SANDSTONE		
"	104	137	LIGHT BLUE SANDSTONE		
"	137	138	" " " SCORIA (SMALL AMOUNT)	X	
"	138	141	LIGHT GREY SANDSTONE		

RECEIVED

10.

Work started 29 MAY 84 finished 4 JUNE 84

11. DRILLERS CERTIFICATION

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

KAY KRESSLER
Firm Name KELL DRILLING Firm No. 262
Address 129 5TH AVE E, TWIN FALLS, IDA 83301 Date 4 JUNE 84
Signed by (Firm Official) Kay Kressler
and
(Operator) Kay Kressler

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

314724

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

RECEIVED
JUN 23 1978
Department of Water Resources
Southern District Office

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 Jack Dodds

Address Ketchum Idaho

Owner's Permit No.

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☒ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 33 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	6 inches	+ 1 feet	33 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No

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

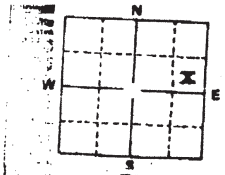
Placed from feet to feet

Surface seal depth 18 FT Material used in seal ☐ Cement grout ☒ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location (37)



Subdivision Name

Lot No. Block No.

County Blaine

S.E. ¼ N.E. ¼ Sec. 31 T. 4 N. N/S, R. 18 E. E/W

7. WATER LEVEL

Static water level 9 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

☐ Pumo ☒ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
30	4 Ft.	2

9. LITHOLOGIC LOG 023023

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	1	Top soil		x
8	1	18	Gravel set in clay		x
6	18	20	" " " "		x
6	20	23	Heaving sand	x	
6	23	26	Gravel set in clay		x
6	26	33	Gravel and coarse sand	x	

WF

10. Work started 7-26-1977 finished 7-27-77

11. DRILLERS CERTIFICATION

Firm Name Ken Smith Well Drilling Firm No. 265

Address Box 1165 Hailey Ida. Date 8-14-77

Signed by (Firm Official) Ken Smith

and (Operator) Wayne Bell

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

360721

Form 238-7
8/90

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

1. WELL OWNER

Name Joe Gattiandia

Address P.O. Box 130 Ketchum, Id. 83340

Drilling Permit No. 37-91-S-145 or A37-11550

Water Right Permit No. 37-7060-7578

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches +	2 feet	38 feet
PVC .250 inches	5od inches	20 feet	240 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☐ Yes ☒ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation 3" inches by 1/8 inches saw

Number	From	To
50 perforations	40 feet	240 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 20 Material used in seal: ☒ Cement grout ☐ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name _____
Lot No. _____ Block No. _____

County BLAINE

SW ¼ NE ¼ Sec. 31, T. 4 N ☒ S ☐ R. 18 E ☒ W ☐

7. WATER LEVEL

Static water level 25 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
100	200 ft.	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	2	topsoil		x
10	2	25	gravel and clay		
6	25	38	brown granite	x	
6	38	90	brown granite	x	
6	90	100	black shale	x	
6	100	130	gray granite	x	
6	130	138	brown granite	x	
6	138	190	gray granite & silt	x	
6	190	195	brown granite	x	
6	195	240	gray granite	x	

SEP 27 1991
Department of Water Resources

RECEIVED
SEP 17 1991
Department of Water Resources
Southern Region Office

10.

Work started 9/10/91 finished 9/11/91

11. DRILLERS CERTIFICATION 20

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

Firm Name WOOD RIVER DRILLING & PUMP INC. Firm No. 265
Address P.O. OFFICE BOX 420 HAILEY IDAHO 83333 208 788-3163 Date 9/13/91
Signed by (Firm Official) Ken Smith
and
(Operator) Bill McHargue

DEC 12 1991

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

313989

Form 238-7
6/89

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

RECEIVED
SEP 04 1990
Department of Water Resources
Southern Region Office

1. WELL OWNER

Name Deane F. Johnson JR.

Address Box 310 Ketchum, Id. 83340

Owner's Permit No. 37-90-S-111 OK

2. NATURE OF WORK

☐ New well ☐ Deepened ☒ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches	+	1½ feet	22½ feet
PVC inches	50d inches		10 feet	190 feet
inches	inches		feet	feet
inches	inches		feet	feet

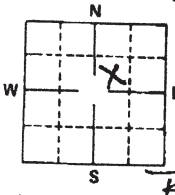
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation ⅛" inches by 2" inches

Number		From	To
1 per ft	perforations	30 feet	180 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 20 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name 12511 STATE HWY. 75 DEC 19 1991
Lot No. _____ Block No. _____
County BLAINE
SW ¼ NE ¼ Sec. 31, T. 4 ☒ N ☐ S, R. 18 ☐ E ☒ W

7. WATER LEVEL

Static water level 8 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
80	140	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	5	Topsoil		X
8	5	8	Gravel		X
8	8	11	Clay		X
8	11	20	Gravel		X
6	20	25	Granite		X
6	25	38	Clay and granite		X
6	38	120	Granite gray	X	
6	120	160	Brown granite	X	
6	160	190	Gray granite	X	

RECEIVED
SEP 7 1990
Department of Water Resources

10.

Work started 8-17-90 finished 8-20-90

11. DRILLERS CERTIFICATION

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

Firm Name WOOD RIVER DRILLING AND PUMP Firm No. 265
Address BOX 1165 ~~788-3163~~ HAILEY, IDAHO 83333 Date 8-31-90
Signed by (Firm Official) Ken Smith
and
(Operator) Broomsburg

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

314503

Form 238-7
/73

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 Lawrence Mobile Home Park

Address Box 222 Ketchum, Idaho 83340

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 ☐ 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
.250 inches	6 inches +	1 feet	38'6" feet
.250 inches	5 inches	30 feet	48'8" feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

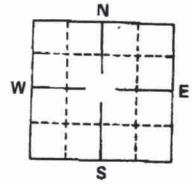
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☒ Yes ☐ No
Perforated? ☒ Yes ☐ No
How perforated? ☒ Factory ☐ Knife ☒ Torch
Size of perforation 1/8 inches by 4 inches

Number	From	To
180 perforations	33 feet	48 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 20 Material used in seal: ☐ Cement grout ☒ Puddling clay ☒ Well cuttings
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing ☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County Blaine
S/W ¼ N/E ¼ Sec. 31, T. 4 N/S R. 18 E/W

7. WATER LEVEL

Static water level 19 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____

8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
31	34	2½

9. LITHOLOGIC LOG

023026

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
6	0	11	topsoil		X
	11	28	boulders & topsoil		X
	28	33	cemented gravel	X	
	33	40	cemented boulders		X
	40	55	cemented gravel	X	

10.

Work started 7/12/78 finished 7/17/78

11. DRILLERS CERTIFICATION

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

Firm Name W.E. Stevens & Sons Firm No. 153
Address 3709 Hawthorne Drive Date 7/18/78
Signed by (Firm Official) Wayne Stevens
and
(Operator) Don Stevens

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

360794

Form 238-7
6/89

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 Russel Satler

Address Box 1182 Hailey, Id. 83333

Owner's Permit No. 37-89-S-132 200*

2. NATURE OF WORK

☐ New well ☐ Deepened ☒ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches +	1 feet	38 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
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 20 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E / S

Subdivision Name _____
Lot No. _____ Block No. _____

County BLAINE
NE ¼ SE ¼ Sec. 30, T. 4 N ☒ S ☐ R. 18 E ☒ W ☐

DEC 12 1989

7. WATER LEVEL

Static water level 12 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature ____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
20	35	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	20	Gravel and sand		x
6	20	38	Gravel	x	

RECEIVED
DEC 21 1989
Department of Water Resources
Southern Region Office

10.

Work started 12-14-89 finished 12-14-89

11. DRILLERS CERTIFICATION

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

Firm Name WoodRiver Drilling & Pump Firm No. 2165
Box 1165
Address Hailey, ID 83333 Date 12-26-89
Signed by (Firm Official) Ken Smith
and
(Operator) Gary Jones

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

211262

Form 238
9/82

RECEIVED
JUL 27 1984
Department of Water Resources

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

1. WELL OWNER

Name Woodriver Oil Co.

Address Ketchum 83340

Owner's Permit No. 37-83-C-0022-000

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	6 inches	+	1 feet	38 feet
_____ inches	_____ inches		_____ feet	_____ feet
_____ inches	_____ inches		_____ feet	_____ feet
_____ inches	_____ inches		_____ feet	_____ feet

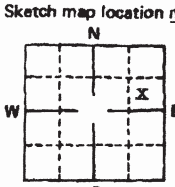
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☐ Yes ☒ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

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 depth 18 Material used in seal: ☐ Cement grout
☒ Bentonite ☒ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☒ Temp. surface casing
☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____
Lot No. _____ Block No. _____
County Blaine
S.E. ¼ N.E. ¼ Sec. 30, T. 4 ☒S, R. 18 ☒W.

7. WATER LEVEL

Static water level 9 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☒ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
30	15	1

71988

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
6	0	4	Top soil		x
6	4	9	Gravel set in clay		x
6	9	17	Small gravel & sand	x	
6	17	24	Gravel & sand	x	
6	24	38	Gravel & clay	x	

MICROFILMED

10.

Work started 8/2/1983 finished 8/4/1983

11. DRILLERS CERTIFICATION 20

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

Firm Name Ken Smith Well Drilling Firm No. 265
Address Box 1165 Hailey Id. Date 8/30/1983
Signed by (Firm Official) Ken Smith
and
(Operator) _____

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

314692

Form 238-8/90

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 Tom Hormel

Address P.O. Box 2224 Ketchum, Id. 83340

Drilling Permit No. 37-91-S-148-000

Water Right Permit No. 37-08560

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement
☐ Well diameter increase
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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	
.250	inches	6	inches +	2	feet	36	feet
PVC.250	inches	5od	inches	35	feet	160	feet
	inches		inches		feet		feet
	inches		inches		feet		feet

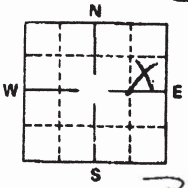
Was casing drive shoe used? ☒ Yes ☐ No
Was a packer or seal used? ☐ Yes ☒ No
Perforated? ☒ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch ☐ Gun
Size of perforation 1/8 inches by 2 inches

Number		From		To	
200	perforations	35	feet	160	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 20 Material used in seal: ☐ Cement grout
☒ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name RIVER EDGE RANCH
Lot No. 1 Block No. _____
County ~~Blaine~~ BLAINE
SE ¼ NE ¼ Sec. 30, T. 4 ☒ N ☐ S R. 18 ☒ E ☐ W

7. WATER LEVEL

Static water level 33 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
100	60 ft.	1

9. LITHOLOGIC LOG 022740

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	8	topsoil		x
8	8	12	gravel	x	
8	12	18	granite		x
6	18	36	broken granite		x
6	36	160	granite	x	

RECEIVED
OCT 25 1991
Department of Water Resources
Southern Region Office

10.

Work started 10/23/91 finished 10/24/91

11. DRILLERS CERTIFICATION OL

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

Firm Name WOOD RIVER DRILLING & PUMP INC. Firm No. 265
Address POST OFFICE BOX 420 BELLEVUE, IDAHO 83313 208 788-3163 Date 10/24/91
Signed by (Firm Official) Ken Smith
and
(Operator) Bill McHargue

NOV 20 1991

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

213997

Form 238-7
9-82

C

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE 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 Graystone Inc.

Address Box 2162 Ketchum, Id. 83340

Owner's Permit No. 37-89-S-127 ok

2. NATURE OF WORK

wr. 37-08535

☒ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

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
.250 inches	8 inches +	1 feet	55 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ No
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
600	perforations	40 feet	55 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 ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☐ Temp. surface casing
☒ Overbore to seal depth
Method of joining casing: ☐ Threaded ☒ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location.

N / W / E

Subdivision Name _____
Lot No. _____ Block No. _____

County BLAINE

SE ¼ SE ¼ Sec. 30, T. 4 ☐N ☐S, R. 18 ☐E ☐W.

DEC 12 1991

7. WATER LEVEL

Static water level 20 feet below land surface.
Flowing? ☐ Yes ☒ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature ____ °F. Quality good
Describe artesian or temperature zones below.

8. WELL TEST DATA

☒ Pump ☐ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
100	60	1

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	20	Top soil and boulders		X
6	20	55	Boulders	X	
6	55	150	Blue shell		X
6	150	250	Blue shell		X
6	250	297	Blue shell	X	

RECEIVED
JAN 13 1990
Department of Water Resources
Southern Region Office

10.

Work started 11-17-89 finished 11-20-89

11. DRILLERS CERTIFICATION

DL

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

Firm Name Wood River Drilling & Pump Firm No. 265
Box 1165
Address HAILEY ID 83333 Date 12-15-89
Signed by (Firm Official) Ken Smith
and
(Operator) Gary Jones

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

2 11 3116

Form 238-7
3/95

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT
Use Typewriter or Ballpoint Pen

62302

Office Use Only
Inspected by _____
Twp____ Rge____ Sec____
____1/4 ____1/4 ____1/4
Lat: : : Long: : :

1. DRILLING PERMIT NO. 37-97-S-0129-000
Other IDWR No. D0002189

2. OWNER:
Name Blaine Co. Rec. District
Address PO Box 297
City Hailey State Id. Zip 83333

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 4 North ☒ or South ☐
Rge. 18 East ☒ or West ☐
Sec. 30, ____ 1/4 SE 1/4 SE 1/4
(10 acres / 40 acres / 160 acres)
Gov't Lot ____ County Blaine
Lat: : : Long: : :
Address of Well Site HWY 75 & Broadway Run City Ketchum
(Give at least name of road + Distance to Road or Landmark)

Lt.____ Blk.____ Sub. Name____

4. USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☒ Other commercial

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 Material	From	To	AMOUNT Sacks or Pounds	METHOD
Bentonite	0	20	10sks	10" overbore
Chips				

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
6	+1.5	53	.250	steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe____ Length of Tailpipe____

9. PERFORATIONS/SCREENS
☒ Perforations Method Knife
☐ Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
30	43	3	200	1.5	steel	☐	☒
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
14 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
14		45	1

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	Water Y	Water N
8	0	2	Topsoil		X
8	2	15	Sand & Gravel		X
8	=15	20	Clay & Gravel		X
6	20	25	Clay & Gravel		X
6	25	35	Gravel & Boulders		X
6	35	43	Gravel & Clay	X	
6	43	52	Broken Granite & Clay		X
6	52	60	Granite		X

RECEIVED
NOV 13 1997
Department of Water Resources
Southern Region

RECEIVED
NOV 20 1997
Department of Water Resources

Completed Depth 60 (Measurable)
Date: Started 10/10/97 Completed 10/14/97

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 Wood River Drilling/Pump Firm No. 265
Firm Official Ken Smith Date 11/12/97
and
Supervisor or Operator [signature] Date 11/12/97
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

312968

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Reclamation

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.

1. WELL OWNER

Name George Castle

Address Ketchum, Idaho

Owner's Permit No. Applied for

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 ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 38 feet
Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
280 inches	8 inches	1 feet	38 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 1/4 inches by 5 inches

Number	From	To
60 perforations	1 feet	5 feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

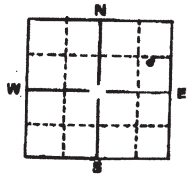
Well screen installed? ☐ Yes ☒ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter ___ Slot size ___ Set from _____ feet to _____ feet
Diameter ___ Slot size ___ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal? ☒ Yes ☐ No To what depth 18 feet
Material used in seal ☒ Cement grout ☐ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Blaine

SW ¼ NE ¼ Sec. 30, T. 4 N/S R. 18 E/W

7. WATER LEVEL

Static water level 8 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
39	0	1

39776

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
	1	3	Brown top soil		
	3	11	Small boulders & gravel	x	
	11	18	Cement gravel		
8"	18	20	Cement gravel		
8"	20	36	Gravel & clay		
8"	36	38	Gravel & sand	x	

10.

Work started 9 Jul 70 finished 15 Jul 70

11. DRILLER'S CERTIFICATION

This well was drilled under my supervision and this report is true to the best of my knowledge.

ROESSLER WELL DRILLING 19
Driller's or Firm's Name Number

Shoshone, Idaho
Address

Ray Roessler 4 Aug 1970
Signed by Date

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE, BLUE, AND PINK COPIES TO THE DEPARTMENT

362026

Appendix 2:
Estimation of Hydraulic Conductivity

Table 1

ESTIMATION OF HYDRAULIC CONDUCTIVITY USING SPECIFIC CAPACITY

Project: Machado Stock and Commercial Well Analysis

Brockway Engineering, PLLC 11/20/12

	Well I.D.	SWL (ft)	Bore diam (in)	Pumping rate (gpm)	Pumping duration (hrs)	Pumping WL (ft)	Well Depth (ft)	Saturated Depth (ft)	Drawdown (ft)	Specific Cap (gpm/ft)	Estimated T (ft2/d)*		Average T from the two methods	Estimated K (ft/d)***		Average K from the two methods	Test Type
											Method 1	Method 2		Method 1	Method 2		
		C1	C2	C3	C4	C5	C6	C7	C8	C9	C10	C11	C12	C13	C14	C15	
1	Ready To Pour	9.5	6	50	4	27.5	42	32.5	18	2.8	420	742	581	12.9	22.8	17.87	pump
2	Thomas Hormel	12	6	100	1	35	40	28	23	4.3	564	1161	863	20.2	41.5	30.81	pump
3	Examiner Reality	15	16	500	5	32	88	73	17	29.4	2272	7853	5063	31.1	107.6	69.35	pump
4	Joe Goitandie	15	10	10	1	223	221	206	208	0.05	5	13	9	0.0	0.1	0.04	air
5	Charles Whistler	8	6	40	1	13	35	27	5	8.0	1038	2136	1587	38.5	79.1	58.78	bailer
6	Fred Beam	10	8	200	1	11	20	10	1	200.0	23363	53400	38381	2336.3	5340.0	3838.14	air
7	Jack Dodds	6	6	30	1	12	30	24	6	5.0	649	1335	992	27.0	55.6	41.33	bailer
8	Henry Whiting	6	8	45	2	18	72	66	12	3.8	474	1001	738	7.2	15.2	11.18	bailer
9	William Larzeler	14	6	36	1	22	90	76	8	4.5	584	1202	893	7.7	15.8	11.75	bailer
10	Rick Fabino	20	6	40	1	21	47	27	1	40.0	5192	10680	7936	192.3	395.6	293.92	bailer
11	George Dondero	10	6	40	1	18	44	34	8	5.0	649	1335	992	19.1	39.3	29.18	bailer
12	Joe Saviers	4	6	40	1	19	58	54	15	2.7	346	712	529	6.4	13.2	9.80	bailer
13	Jerry Kirkman	35	12	60	2	36	84	49	1	60.0	5899	16020	10959	120.4	326.9	223.66	bailer
14	Chalet Motel	30	6	40	10	38	80	50	8	5.0	826	1335	1080	16.5	26.7	21.61	pump
15	E.J. Odermatt	36	8	17	2	126	296	260	90	0.2	24	50	37	0.1	0.2	0.14	pump
16	James Welsh	17	6	40	1	60	100	83	43	0.9	121	248	185	1.5	3.0	2.22	air
17	Wallace Huffman	5	6	30	1	35	38	33	30	1.0	130	267	198	3.9	8.1	6.01	air
18	R.S Peterson	16	6	10	2	201	192	176	185	0.1	8	14	11	0.0	0.1	0.06	bailer
19	John McDonald	2	6	40	1	33	210	208	31	1.3	167	345	256	0.8	1.7	1.23	pump
20	Roy Hoffman	5	6	10	1	128	141	136	123	0.1	11	22	16	0.1	0.2	0.12	bailer
21	Jack Dodds	9	6	30	2	13	33	24	4	7.5	1053	2003	1528	43.9	83.4	63.66	bailer
22	Joe Goitandie	25	6	100	1	200	240	215	175	0.6	74	153	113	0.3	0.7	0.53	air
23	Deane Johnson	8	6	80	1	140	190	182	132	0.6	79	162	120	0.4	0.9	0.66	air
24	Lawrence Mobile Home	19	6	31	2.5	34	55	36	15	2.1	297	552	425	8.3	15.3	11.79	pump
25	Russel Satler	12	6	20	1	35	38	26	23	0.9	113	232	173	4.3	8.9	6.64	air
26	Woodriver Oil Co.	9	6	30	1	15	38	29	6	5.0	649	1335	992	22.4	46.0	34.21	bailer
27	Tom Hormel	33	6	100	1	60	160	127	27	3.7	481	989	735	3.8	7.8	5.79	air
28	Garystone Inc.	20	6	100	1	60	297	277	40	2.5	324	668	496	1.2	2.4	1.79	pump
29	Blaine Co Rec Depart	14	6	14	1	45	60	46	31	0.5	59	121	90	1.3	2.6	1.95	air
30	George Castle	8	8	39	1	9	38	30	1.0	39	4556	10413	7484	151.9	347.1	249.48	bailer
	Average	14.4	6.9	64.1	1.8	57.3	102.6	88.2	42.9	14.5	1681	3883	2782	102.7	233.6	168.1	

* Method 1: Theis (1963)
Method 2: Thomasson, et al. (1963)
** K = T / b, where b = average saturated depth
Assumed specific yield (Storativity) 0.15

Saturated Depth = C6-C1
Drawdown = C5-C1
Specific Capacity = C3/C8
T Method 1 = 0.134*C9*F*(1300-264*LOG(5*C2)+264*LOG(C4/24))
T Method 2 = 267*C9
Average T = AVERAGE(C10,C11)
K Method 1 = C10/C7
K Method 2 = C11/C7
Average K = AVERAGE(C13,C14)

F	
in	
6	1
8	0.9
10	0.8
12	0.7
14	0.6
16	0.5
18	0.4
20	0.3

Hydraulic Conductivity (K)	
Over all Average	**168.1 ft/day**
Average excluding high and low values	**43.1 ft/day**
Average for only Pump Test values	**19.3 ft/day**
Average excluding high and low values	**14.2 ft/day**

Transmissivity (T)	
Over all Average	**2782 ft^2/day**
Average excluding high and low values	**1610 ft^2/day**
Average for only Pump Test values	**1100 ft^2/day**
Average excluding high and low values	**617 ft^2/day**

Well Drillers Logs

	Owner:	Legal
1	Ready To Pour	T4NS R18E Sec. 30 NESE
2	Thomas Hormel	T4NS R18E Sec. 30 SENE
3	Examiner Reality	T4NS R18E Sec. 31 NESE
4	Joe Goitandie	T4NS R18E Sec. 31 NWSE
5	Charles Whistler	T4NS R18E Sec. 31 NWSE
6	Fred Beam	T4NS R18E Sec. 31 NESE
7	Jack Dodds	T4NS R18E Sec. 31 NESE
8	Henry Whiting	T4NS R18E Sec. 31 NESE
9	William Larzeler	T4NS R18E Sec. 31 SESE
10	Rick Fabino	T4NS R18E Sec. 31 SESE
11	George Dondero	T4NS R18E Sec. 31 SESE
12	Joe Saviers	T4NS R18E Sec. 31 SESE
13	Jerry Kirkman	T4NS R18E Sec. 31 SESE
14	Chalet Motel	T4NS R18E Sec. 31 SWSE
15	E.J. Odermatt	T4NS R18E Sec. 31 SWSE
16	James Welsh	T4NS R18E Sec. 31 NENE
17	Wallace Huffman	T4NS R18E Sec. 31 NENE
18	R.S Peterson	T4NS R18E Sec. 31 NENE
19	John McDonald	T4NS R18E Sec. 31 NWNE
20	Roy Hoffman	T4NS R18E Sec. 31 SENE
21	Jack Dodds	T4NS R18E Sec. 31 SENE
22	Joe Goitandie	T4NS R18E Sec. 31 SWNE
23	Deane Johnson	T4NS R18E Sec. 31 SWNE
24	Lawrence Mobile Home	T4NS R18E Sec. 31 SWNE
25	Russel Satler	T4NS R18E Sec. 30 SENE
26	Woodriver Oil Co.	T4NS R18E Sec. 30 NESE
27	Tom Hormel	T4NS R18E Sec. 30 SENE
28	Garystone Inc.	T4NS R18E Sec. 30 SESE
29	Blaine Co Rec Depart	T4NS R18E Sec. 30 SESE
30	George Castle	T4NS R18E Sec. 30 SWNE

Appendix 3:

Sub District Acre Calculations

Community Housing Overlay District

04.10.2012

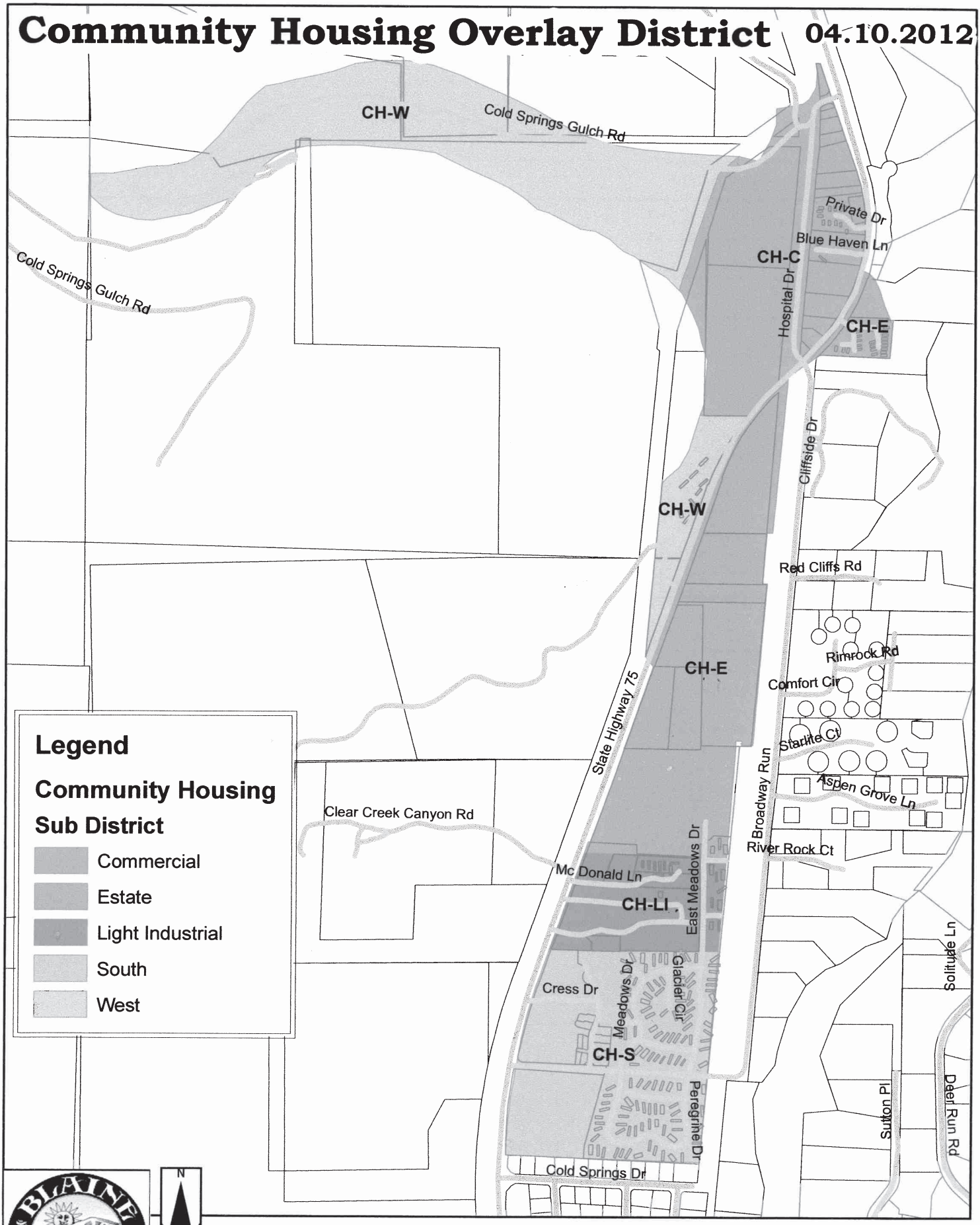


EXHIBIT A

This information is to be used ONLY for reference purposes and Blaine County is not responsible for any inaccuracies herein contained

Table 1

KETCHUM - SOUTHERN GATEWAY PROJECT
INTERSECTING PARCELS
BROCKWAY ENGINEERING, PLLC.
ALR - NOV. 28, 2012

FID_Parcel	SubDist	Parcel_Num	Owner1	Lgl_Desc1	ACRES
9	CH-E	RP004140000010	BOONE STEPHEN K TRUSTEE	MORSE SUB	2.54
10	CH-E	RP004140000020	COLLIER KATHE	MORSE SUB	2.36
25	CH-E	RP04N180307310	SUN VALLEY TRAILER PARKS INC	FR SE TL 7185, SEC 30	2.09
26	CH-E	RP04N180307330	INNES MARGARET NELL	FR SESE TL 7828 & TL 7829	5.42
46	CH-E	RP04N180317510	MC DONALD GREGORY S	FR N1/2NE TL 8234, FR NE	1.48
47	CH-E	RP04N18031752A	BRAMBLE PATCH DEVELOPMENT LLC	FR NWNE TL 8141	2.17
48	CH-E	RP04N18031752B	BRAMBLE PATCH DEVELOPMENT LLC	FR NWNE TL 8142	7.76
49	CH-E	RP04N180317540	MULLINS ROBERT P	FR NENE TL 6799, SEC 30 & 31	3.40
51	CH-E	RP04N18031760B	DRASHNER-PRICE LLC	FR SWNE TL 6917, SEC 31	11.91
53	CH-E	RP04N180317670	JOHNSON DEANE F	FR SWNE TL 6918, SEC 31	0.53
					39.66
53	CH-LI	RP04N180317670	JOHNSON DEANE F	FR SWNE TL 6918, SEC 31	0.86
2	CH-LI	RP000920000010	MC DONALD JOHN H	CLEAR CREEK LIGHT IND PARK	0.81
3	CH-LI	RP000920000020	MC DONALD JOHN H	CLEAR CREEK LIGHT IND PARK	0.97
4	CH-LI	RP000920000030	MC DONALD JOHN H	CLEAR CREEK LIGHT IND PARK	0.97
					3.61
0	CH-LI	RP000210000010	ACKER RANDALL L	ANIMAL SUB	0.50
1	CH-LI	RP000210000020	ACKER RANDALL	ANIMAL SUB	0.41
52	CH-LI	RP04N180317620	GOITIANDIA JOE	FR SWNE TL 6974, SEC 31	7.36
					8.27
11	CH-S	RP004730000020	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	5.58
12	CH-S	RP004730010290	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.13
13	CH-S	RP004730010300	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.12
14	CH-S	RP004730010310	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.12
15	CH-S	RP004730020220	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.12
16	CH-S	RP004730020230	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.11
17	CH-S	RP004730020260	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.06
18	CH-S	RP004730020270	MEADOWS LLC THE	QUAIL CREEK PUD SUBDIVISION	0.07
44	CH-S	RP04N18031747A	MEADOWS LLC THE	FR NWSE TL 6740 SEC 31	6.77
					13.08
0	CH-W	RP04N18030744A	SUN VALLEY RESORTS	FR NW TL 4252 & TL 4302	11.79
0	CH-W	RP04N18030744F	MAC DONALD ALEXANDER TRUSTEE	LOT 4, FR LOT 3 TL 7190,	7.11
24	CH-W	RP04N18030729A	GARDNER-BENCH LLC	NESW, FR SWSE TL 2014, FR NWSE	19.30
24	CH-W	RP04N18030729A	GARDNER-BENCH LLC	NESW, FR SWSE TL 2014, FR NWSE	0.07
41	CH-W	RP04N18030744D	CASTLE ANNETTE TRUSTEE	LOT 1, FR LOT 2 TL 4253,	6.08
42	CH-W	RP04N18030744F	MAC DONALD ALEXANDER TRUSTEE	LOT 4, FR LOT 3 TL 7190,	0.07
43	CH-W	RP04N18030744G	TURNER ROGER D	FR SWNE TL 7951	1.40
					45.82

Appendix 4:

Water Demand per Sub District Design Densities

Table 1

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing Estate Sub District

Residential indoor water use	69.3	gal/person/day	
Persons per unit	3		
Irrigation Efficiency	65%		

% of Gross area that will be Roads	15%		
Commons area per Unit	1000	ft^2	
Backyard area per Unit	500	ft^3	

Sub-District	Acres	15 Units/Acre Units	12 Units/Acre Units	8 Units/Acre Units	5 Units/Acre Units
CH-E	39.66	595	476	317	198

15 Units/Acre Potable gpd	12 Units/Acre Potable gpd	8 Units/Acre Potable gpd	5 Units/Acre Potable gpd
123680	98944	65963	41227

Average unit foot print per unit (Unit/Storage/Parking) 2000 ft^2

Single Structure Units				
27.3	21.9	14.6	9.1	Acres for Community Housing
20.5	16.4	10.9	6.8	Acres for Common Area and Backyards
5.9	5.9	5.9	5.9	Acres for Roads, Walkways
-14.1	-4.5	8.2	17.8	Remaining Acres

Average unit foot print per unit (Unit/Storage/Parking) 900 ft^2
(Based on McHanville Creek 5 Unit Stuctures)

Two Level Duplex's				
15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre	
12.3	9.8	6.6	4.1	Acres for Community Housing
20.5	16.4	10.9	6.8	Acres for Common Area and Backyards
5.9	5.9	5.9	5.9	Acres for Roads, Walkways, Driveways
0.9	7.5	16.2	22.8	Remaining Acres

Irrigation Water Demand

Hailey Ranger Stn (NWS -- 103942)
http://data.kimberly.uidaho.edu/ETIdaho/stcvrstats.py?station=103942&cover=17&stats=Deficit
ETIdaho 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho
Pdef Grass - Turf (lawns) - Irrigated
597 mm
1.96 ft.

	January	February	March	April	May	June	July	August	September	October	November	December	Total
mm/day	-0.01	0.02	0.04	0.14	2.12	4.07	5.51	4.5	2.76	0.35	-0.25	-0.06	
day/month	31	28	31	30	31	30	31	31	30	31	30	31	365
ft/month				0.01	0.22	0.40	0.56	0.46	0.27	0.04			1.96

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing Estate Sub District

Total Water Demand

Single Structures
5 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 6.8 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet				0.1 AF	2.3 AF	4.2 AF	5.9 AF	4.8 AF	2.9 AF	0.4 AF			**20.5 AFA**
Gallons per day				1572 gpd	23809 gpd	45709 gpd	61882 gpd	50539 gpd	30997 gpd	3931 gpd			

Daily Potable and Irriagtion Demand	41227 gpd	41227 gpd	41227 gpd	42799 gpd	65036 gpd	86936 gpd	103108 gpd	91765 gpd	72224 gpd	45157 gpd	41227 gpd	41227 gpd
	29 gpm	29 gpm	29 gpm	30 gpm	45 gpm	60 gpm	72 gpm	64 gpm	50 gpm	31 gpm	29 gpm	29 gpm

Annual Demand for Potable Water	**46.2 AFA**
Annual Demand for Irrigation Water	**20.5 AFA**
Total Annual Demand of Potable and Irrigation Water	**66.7 AFA**

Single Structures
8 Units/Acre

Estimated irrigation area 10.9 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.2 AF	3.6 AF	6.7 AF	9.4 AF	7.7 AF	4.6 AF	0.6 AF			**32.9 AFA**
Gallons per day				2516 gpd	38095 gpd	73135 gpd	99011 gpd	80862 gpd	49595 gpd	6289 gpd			

Daily Potable and Irriagtion Demand	65963 gpd	65963 gpd	65963 gpd	68478 gpd	104057 gpd	139098 gpd	164973 gpd	146824 gpd	115558 gpd	72252 gpd	65963 gpd	65963 gpd
	46 gpm	46 gpm	46 gpm	48 gpm	72 gpm	97 gpm	114 gpm	102 gpm	80 gpm	50 gpm	46 gpm	46 gpm

Annual Demand for Potable Water	**73.9 AFA**
Annual Demand for Irrigation Water	**32.9 AFA**
Total Annual Demand of Potable and Irrigation Water	**106.8 AFA**

Single Structures
12 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 16.4 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.3 AF	5.4 AF	10.1 AF	14.1 AF	11.5 AF	6.8 AF	0.9 AF			**49.3 AFA**
Gallons per day				3774 gpd	57142 gpd	109703 gpd	148516 gpd	121293 gpd	74393 gpd	9434 gpd			

Daily Potable and Irriagtion Demand	98944 gpd	98944 gpd	98944 gpd	102717 gpd	156086 gpd	208646 gpd	247460 gpd	220237 gpd	173337 gpd	108378 gpd	98944 gpd	98944 gpd
	69 gpm	69 gpm	69 gpm	71 gpm	108 gpm	145 gpm	172 gpm	153 gpm	120 gpm	75 gpm	69 gpm	69 gpm

Annual Demand for Potable Water	**110.8 AFA**
Annual Demand for Irrigation Water	**49.3 AFA**
Total Annual Demand of Potable and Irrigation Water	**160.1 AFA**

Single Structures
15 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 20.5 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.4 AF	6.8 AF	12.6 AF	17.7 AF	14.4 AF	8.6 AF	1.1 AF			**61.6 AFA**
Gallons per day				4717 gpd	71428 gpd	137128 gpd	185645 gpd	151616 gpd	92991 gpd	11792 gpd			

Daily Potable and Irriagtion Demand	123680 gpd	123680 gpd	123680 gpd	128397 gpd	195108 gpd	260808 gpd	309325 gpd	275296 gpd	216671 gpd	135472 gpd	123680 gpd	123680 gpd
	86 gpm	86 gpm	86 gpm	89 gpm	135 gpm	181 gpm	215 gpm	191 gpm	150 gpm	94 gpm	86 gpm	86 gpm

Annual Demand for Potable Water	**138.5 AFA**
Annual Demand for Irrigation Water	**61.6 AFA**
Total Annual Demand of Potable and Irrigation Water	**200.2 AFA**

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing Estate Sub District

Two Level Duplex's
5 Units/Acre

Estimated irrigation area 6.8 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	2.3 AF	4.2 AF	5.9 AF	4.8 AF	2.9 AF	0.4 AF			**20.5 AFA**
Gallons per day				1572 gpd	23809 gpd	45709 gpd	61882 gpd	50539 gpd	30997 gpd	3931 gpd			

Daily Potable and Irriagtion Demand	41227 gpd	41227 gpd	41227 gpd	42799 gpd	65036 gpd	86936 gpd	103108 gpd	91765 gpd	72224 gpd	45157 gpd	41227 gpd	41227 gpd
	29 gpm	29 gpm	29 gpm	30 gpm	45 gpm	60 gpm	72 gpm	64 gpm	50 gpm	31 gpm	29 gpm	29 gpm

Annual Demand for Potable Water	**46.2 AFA**
Annual Demand for Irrigation Water	**20.5 AFA**
Total Annual Demand of Potable and Irrigation Water	**66.7 AFA**

Two Level Duplex's
8 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 10.9 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.2 AF	3.6 AF	6.7 AF	9.4 AF	7.7 AF	4.6 AF	0.6 AF			**32.9 AFA**
Gallons per day				2516 gpd	38095 gpd	73135 gpd	99011 gpd	80862 gpd	49595 gpd	6289 gpd			

Daily Potable and Irriagtion Demand	65963 gpd	65963 gpd	65963 gpd	68478 gpd	104057 gpd	139098 gpd	164973 gpd	146824 gpd	115558 gpd	72252 gpd	65963 gpd	65963 gpd
	46 gpm	46 gpm	46 gpm	48 gpm	72 gpm	97 gpm	114 gpm	102 gpm	80 gpm	50 gpm	46 gpm	46 gpm

Annual Demand for Potable Water	**73.9 AFA**
Annual Demand for Irrigation Water	**32.9 AFA**
Total Annual Demand of Potable and Irrigation Water	**106.8 AFA**

Two Level Duplex's
12 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 16.4 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.3 AF	5.4 AF	10.1 AF	14.1 AF	11.5 AF	6.8 AF	0.9 AF			**49.3 AFA**
Gallons per day				3774 gpd	57142 gpd	109703 gpd	148516 gpd	121293 gpd	74393 gpd	9434 gpd			

Daily Potable and Irriagtion Demand	98944 gpd	98944 gpd	98944 gpd	102717 gpd	156086 gpd	208646 gpd	247460 gpd	220237 gpd	173337 gpd	108378 gpd	98944 gpd	98944 gpd
	69 gpm	69 gpm	69 gpm	71 gpm	108 gpm	145 gpm	172 gpm	153 gpm	120 gpm	75 gpm	69 gpm	69 gpm

Annual Demand for Potable Water	**110.8 AFA**
Annual Demand for Irrigation Water	**49.3 AFA**
Total Annual Demand of Potable and Irrigation Water	**160.1 AFA**

Two Level Duplex's
15 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 20.5 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.4 AF	6.8 AF	12.6 AF	17.7 AF	14.4 AF	8.6 AF	1.1 AF			**61.6 AFA**
Gallons per day				4717 gpd	71428 gpd	137128 gpd	185645 gpd	151616 gpd	92991 gpd	11792 gpd			

Daily Potable and Irriagtion Demand	123680 gpd	123680 gpd	123680 gpd	128397 gpd	195108 gpd	260808 gpd	309325 gpd	275296 gpd	216671 gpd	135472 gpd	123680 gpd	123680 gpd
	86 gpm	86 gpm	86 gpm	89 gpm	135 gpm	181 gpm	215 gpm	191 gpm	150 gpm	94 gpm	86 gpm	86 gpm

Annual Demand for Potable Water	**138.5 AFA**
Annual Demand for Irrigation Water	**61.6 AFA**
Total Annual Demand of Potable and Irrigation Water	**200.2 AFA**

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing Estate Sub District

	Single Structure Units			
	15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre
Annual Demand for Potable Water			**73.9 AFA**	**46.2 AFA**
Annual Demand for Irrigation Water			**32.9 AFA**	**20.5 AFA**
Total Annual Demand of Potable and Irrigation Water			**106.8 AFA**	**66.7 AFA**

	Two Level Duplex's			
	15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre
Annual Demand for Potable Water	**138.5 AFA**	**110.8 AFA**	**73.9 AFA**	**46.2 AFA**
Annual Demand for Irrigation Water	**61.6 AFA**	**49.3 AFA**	**32.9 AFA**	**20.5 AFA**
Total Annual Demand of Potable and Irrigation Water	**200.2 AFA**	**160.1 AFA**	**106.8 AFA**	**66.7 AFA**

Table 2

South Gateway Water Supply
Brockway Engineering
Community Housing South Sub District

Residential indoor water use	69.3	gal/person/day	% of Gross area that will be Roads	15%	
Persons per unit	3		Commons area per Unit	1000	ft^2
Irrigation Efficiency	65%		Backyard area per Unit	500	ft^3

Sub-District	Acres	15 Units/Acre Units	12 Units/Acre Units	8 Units/Acre Units	5 Units/Acre Units
CH-S	13.08	196	157	105	65

15 Units/Acre Potable gpd	12 Units/Acre Potable gpd	8 Units/Acre Potable gpd	5 Units/Acre Potable gpd
40790	32632	21755	13597

Average unit foot print per unit (Unit/Storage/Parking) 2000 ft^2

Single Structure Units

15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre	
9.0	7.2	4.8	3.0	Acres for Community Housing
6.8	5.4	3.6	2.3	Acres for Common Area and Backyards
2.0	2.0	2.0	2.0	Acres for Roads, Walkways
-4.6	1.5	2.7	5.9	Remaining Acres

Average unit foot print per unit (Unit/Storage/Parking) 900 ft^2
(Based on McHanville Creek 5 Unit Stuctures)

Two Level Duplex's

15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre	
4.1	3.2	2.2	1.4	Acres for Community Housing
6.8	5.4	3.6	2.3	Acres for Common Area and Backyards
2.0	2.0	2.0	2.0	Acres for Roads, Walkways, Driveways
0.3	2.5	5.4	7.5	Remaining Acres

Irrigation Water Demand

Hailey Ranger Stn (NWS -- 103942)
http://data.kimberly.uidaho.edu/ETIdaho/stcvrstats.py?station=103942&cover=17&stats=Deficit
ETIdaho 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho
Pdef Grass - Turf (lawns) - Irrigated
597 mm
1.96 ft.

	January	February	March	April	May	June	July	August	September	October	November	December	Total
mm/day	-0.01	0.02	0.04	0.14	2.12	4.07	5.51	4.5	2.76	0.35	-0.25	-0.06	
day/month	31	28	31	30	31	30	31	31	30	31	30	31	365
ft/month				0.01	0.22	0.40	0.56	0.46	0.27	0.04			1.96

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing South Sub District

Total Water Demand

Single Structures
5 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 2.3 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet				0.0 AF	0.7 AF	1.4 AF	1.9 AF	1.6 AF	0.9 AF	0.1 AF			**6.8 AFA**
Gallons per day				519 gpd	7852 gpd	15075 gpd	20409 gpd	16668 gpd	10223 gpd	1296 gpd			

Daily Potable and Irriagtion Demand	13597 gpd	13597 gpd	13597 gpd	14115 gpd	21449 gpd	28672 gpd	34005 gpd	30264 gpd	23820 gpd	14893 gpd	13597 gpd	13597 gpd
	9 gpm	9 gpm	9 gpm	10 gpm	15 gpm	20 gpm	24 gpm	21 gpm	17 gpm	10 gpm	9 gpm	9 gpm

Annual Demand for Potable Water	**15.2 AFA**
Annual Demand for Irrigation Water	**6.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**22.0 AFA**

Single Structures
8 Units/Acre

Estimated irrigation area 3.6 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.2 AF	2.2 AF	3.1 AF	2.5 AF	1.5 AF	0.2 AF			**10.8 AFA**
Gallons per day				830 gpd	12564 gpd	24120 gpd	32654 gpd	26669 gpd	16357 gpd	2074 gpd			

Daily Potable and Irriagtion Demand	21755 gpd	21755 gpd	21755 gpd	22584 gpd	34318 gpd	45875 gpd	54409 gpd	48423 gpd	38111 gpd	23829 gpd	21755 gpd	21755 gpd
	15 gpm	15 gpm	15 gpm	16 gpm	24 gpm	32 gpm	38 gpm	34 gpm	26 gpm	17 gpm	15 gpm	15 gpm

Annual Demand for Potable Water	**24.4 AFA**
Annual Demand for Irrigation Water	**10.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**35.2 AFA**

Single Structures
12 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 5.4 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.8 AF	3.3 AF	4.7 AF	3.8 AF	2.3 AF	0.3 AF			**16.3 AFA**
Gallons per day				1245 gpd	18846 gpd	36180 gpd	48981 gpd	40003 gpd	24535 gpd	3111 gpd			

Daily Potable and Irriagtion Demand	32632 gpd	32632 gpd	32632 gpd	33877 gpd	51478 gpd	68812 gpd	81613 gpd	72635 gpd	57167 gpd	35743 gpd	32632 gpd	32632 gpd
	23 gpm	23 gpm	23 gpm	24 gpm	36 gpm	48 gpm	57 gpm	50 gpm	40 gpm	25 gpm	23 gpm	23 gpm

Annual Demand for Potable Water	**36.6 AFA**
Annual Demand for Irrigation Water	**16.3 AFA**
Total Annual Demand of Potable and Irrigation Water	**52.8 AFA**

Single Structures
15 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 6.8 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	2.2 AF	4.2 AF	5.8 AF	4.8 AF	2.8 AF	0.4 AF			**20.3 AFA**
Gallons per day				1556 gpd	23557 gpd	45225 gpd	61226 gpd	50003 gpd	30669 gpd	3889 gpd			

Daily Potable and Irriagtion Demand	40790 gpd	40790 gpd	40790 gpd	42346 gpd	64347 gpd	86015 gpd	102016 gpd	90793 gpd	71459 gpd	44679 gpd	40790 gpd	40790 gpd
	28 gpm	28 gpm	28 gpm	29 gpm	45 gpm	60 gpm	71 gpm	63 gpm	50 gpm	31 gpm	28 gpm	28 gpm

Annual Demand for Potable Water	**45.7 AFA**
Annual Demand for Irrigation Water	**20.3 AFA**
Total Annual Demand of Potable and Irrigation Water	**66.0 AFA**

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing South Sub District

Two Level Duplex's
5 Units/Acre

Estimated irrigation area 2.3 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.0 AF	0.7 AF	1.4 AF	1.9 AF	1.6 AF	0.9 AF	0.1 AF			**6.8 AFA**
Gallons per day				519 gpd	7852 gpd	15075 gpd	20409 gpd	16668 gpd	10223 gpd	1296 gpd			

Daily Potable and Irriagtion Demand												
	13597 gpd	13597 gpd	13597 gpd	14115 gpd	21449 gpd	28672 gpd	34005 gpd	30264 gpd	23820 gpd	14893 gpd	13597 gpd	13597 gpd
	9 gpm	9 gpm	9 gpm	10 gpm	15 gpm	20 gpm	24 gpm	21 gpm	17 gpm	10 gpm	9 gpm	9 gpm

Annual Demand for Potable Water	**15.2 AFA**
Annual Demand for Irrigation Water	**6.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**22.0 AFA**

Two Level Duplex's
8 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 3.6 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.2 AF	2.2 AF	3.1 AF	2.5 AF	1.5 AF	0.2 AF			**10.8 AFA**
Gallons per day				830 gpd	12564 gpd	24120 gpd	32654 gpd	26669 gpd	16357 gpd	2074 gpd			

Daily Potable and Irriagtion Demand												
	21755 gpd	21755 gpd	21755 gpd	22584 gpd	34318 gpd	45875 gpd	54409 gpd	48423 gpd	38111 gpd	23829 gpd	21755 gpd	21755 gpd
	15 gpm	15 gpm	15 gpm	16 gpm	24 gpm	32 gpm	38 gpm	34 gpm	26 gpm	17 gpm	15 gpm	15 gpm

Annual Demand for Potable Water	**24.4 AFA**
Annual Demand for Irrigation Water	**10.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**35.2 AFA**

Two Level Duplex's
12 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 5.4 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.8 AF	3.3 AF	4.7 AF	3.8 AF	2.3 AF	0.3 AF			**16.3 AFA**
Gallons per day				1245 gpd	18846 gpd	36180 gpd	48981 gpd	40003 gpd	24535 gpd	3111 gpd			

Daily Potable and Irriagtion Demand												
	32632 gpd	32632 gpd	32632 gpd	33877 gpd	51478 gpd	68812 gpd	81613 gpd	72635 gpd	57167 gpd	35743 gpd	32632 gpd	32632 gpd
	23 gpm	23 gpm	23 gpm	24 gpm	36 gpm	48 gpm	57 gpm	50 gpm	40 gpm	25 gpm	23 gpm	23 gpm

Annual Demand for Potable Water	**36.6 AFA**
Annual Demand for Irrigation Water	**16.3 AFA**
Total Annual Demand of Potable and Irrigation Water	**52.8 AFA**

Two Level Duplex's
15 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 6.8 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	2.2 AF	4.2 AF	5.8 AF	4.8 AF	2.8 AF	0.4 AF			**20.3 AFA**
Gallons per day				1556 gpd	23557 gpd	45225 gpd	61226 gpd	50003 gpd	30669 gpd	3889 gpd			

Daily Potable and Irriagtion Demand												
	40790 gpd	40790 gpd	40790 gpd	42346 gpd	64347 gpd	86015 gpd	102016 gpd	90793 gpd	71459 gpd	44679 gpd	40790 gpd	40790 gpd
	28 gpm	28 gpm	28 gpm	29 gpm	45 gpm	60 gpm	71 gpm	63 gpm	50 gpm	31 gpm	28 gpm	28 gpm

Annual Demand for Potable Water	**45.7 AFA**
Annual Demand for Irrigation Water	**20.3 AFA**
Total Annual Demand of Potable and Irrigation Water	**66.0 AFA**

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing South Sub District

	Single Structure Units			
	15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre
Annual Demand for Potable Water			**24.4 AFA**	**15.2 AFA**
Annual Demand for Irrigation Water			**10.8 AFA**	**6.8 AFA**
Total Annual Demand of Potable and Irrigation Water			**35.2 AFA**	**22.0 AFA**

	Two Level Duplex's			
	15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre
Annual Demand for Potable Water	**45.7 AFA**	**36.6 AFA**	**24.4 AFA**	**15.2 AFA**
Annual Demand for Irrigation Water	**20.3 AFA**	**16.3 AFA**	**10.8 AFA**	**6.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**66.0 AFA**	**52.8 AFA**	**35.2 AFA**	**22.0 AFA**

Table 3

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing West Sub District

Residential indoor water use	69.3	gal/person/day	% of Gross area that will be Roads	15%
Persons per unit	3		Commons area per Unit	1000 ft^2
Irrigation Efficiency	65%		Backyard area per Unit	500 ft^3

Sub-District	Acres	15 Units/Acre Units	12 Units/Acre Units	8 Units/Acre Units	5 Units/Acre Units
CH-W	13	195	156	104	65

15 Units/Acre Potable gpd	12 Units/Acre Potable gpd	8 Units/Acre Potable gpd	5 Units/Acre Potable gpd
40541	32432	21622	13514

Average unit foot print per unit (Unit/Storage/Parking) 2000 ft^2

Single Structure Units				
9.0	7.2	4.8	3.0	Acres for Community Housing
6.7	5.4	3.6	2.2	Acres for Common Area and Backyards
2.0	2.0	2.0	2.0	Acres for Roads, Walkways
-4.6	-1.5	2.7	5.8	Remaining Acres

Average unit foot print per unit (Unit/Storage/Parking) 900 ft^2
(Based on McHanville Creek 5 Unit Stuctures)

Two Level Duplex's				
15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre	
4.0	3.2	2.1	1.3	Acres for Community Housing
6.7	5.4	3.6	2.2	Acres for Common Area and Backyards
2.0	2.0	2.0	2.0	Acres for Roads, Walkways, Driveways
0.3	2.5	5.3	7.5	Remaining Acres

Irrigation Water Demand

Hailey Ranger Stn (NWS -- 103942)
http://data.kimberly.uidaho.edu/ETIdaho/stcvrstats.py?station=103942&cover=17&stats=Deficit
ETIdaho 2012 -- Evapotranspiration and Consumptive Irrigation Water Requirements for Idaho
Pdef Grass - Turf (lawns) - Irrigated
597 mm
1.96 ft.

	January	February	March	April	May	June	July	August	September	October	November	December	Total
mm/day	-0.01	0.02	0.04	0.14	2.12	4.07	5.51	4.5	2.76	0.35	-0.25	-0.06	
day/month	31	28	31	30	31	30	31	31	30	31	30	31	365
ft/month				0.01	0.22	0.40	0.56	0.46	0.27	0.04			1.96

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing South Sub District

Total Water Demand

Single Structures
5 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 2.2 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet				0.0 AF	0.7 AF	1.4 AF	1.9 AF	1.6 AF	0.9 AF	0.1 AF			6.7 AFA
Gallons per day				515 gpd	7804 gpd	14983 gpd	20284 gpd	16566 gpd	10160 gpd	1288 gpd			

Daily Potable and Irriagtion Demand	13514 gpd	13514 gpd	13514 gpd	14029 gpd	21318 gpd	28496 gpd	33798 gpd	30079 gpd	23674 gpd	14802 gpd	13514 gpd	13514 gpd
	9 gpm	9 gpm	9 gpm	10 gpm	15 gpm	20 gpm	23 gpm	21 gpm	16 gpm	10 gpm	9 gpm	9 gpm

Annual Demand for Potable Water	**15.1 AFA**
Annual Demand for Irrigation Water	**6.7 AFA**
Total Annual Demand of Potable and Irrigation Water	**21.9 AFA**

Single Structures
8 Units/Acre

Estimated irrigation area 3.6 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.2 AF	2.2 AF	3.1 AF	2.5 AF	1.5 AF	0.2 AF			10.8 AFA
Gallons per day				825 gpd	12487 gpd	23973 gpd	32454 gpd	26505 gpd	16257 gpd	2062 gpd			

Daily Potable and Irriagtion Demand	21622 gpd	21622 gpd	21622 gpd	22446 gpd	34109 gpd	45594 gpd	54076 gpd	48127 gpd	37878 gpd	23683 gpd	21622 gpd	21622 gpd
	15 gpm	15 gpm	15 gpm	16 gpm	24 gpm	32 gpm	38 gpm	33 gpm	26 gpm	16 gpm	15 gpm	15 gpm

Annual Demand for Potable Water	**24.2 AFA**
Annual Demand for Irrigation Water	**10.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**35.0 AFA**

Single Structures
12 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 5.4 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.8 AF	3.3 AF	4.6 AF	3.8 AF	2.2 AF	0.3 AF			16.2 AFA
Gallons per day				1237 gpd	18730 gpd	35959 gpd	48682 gpd	39758 gpd	24385 gpd	3092 gpd			

Daily Potable and Irriagtion Demand	32432 gpd	32432 gpd	32432 gpd	33669 gpd	51163 gpd	68391 gpd	81114 gpd	72191 gpd	56817 gpd	35525 gpd	32432 gpd	32432 gpd
	23 gpm	23 gpm	23 gpm	23 gpm	36 gpm	47 gpm	56 gpm	50 gpm	39 gpm	25 gpm	23 gpm	23 gpm

Annual Demand for Potable Water	**36.3 AFA**
Annual Demand for Irrigation Water	**16.2 AFA**
Total Annual Demand of Potable and Irrigation Water	**52.5 AFA**

Single Structures
15 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 6.7 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	2.2 AF	4.1 AF	5.8 AF	4.7 AF	2.8 AF	0.4 AF			20.2 AFA
Gallons per day				1546 gpd	23413 gpd	44949 gpd	60852 gpd	49698 gpd	30481 gpd	3865 gpd			

Daily Potable and Irriagtion Demand	40541 gpd	40541 gpd	40541 gpd	42087 gpd	63954 gpd	85489 gpd	101393 gpd	90238 gpd	71022 gpd	44406 gpd	40541 gpd	40541 gpd
	28 gpm	28 gpm	28 gpm	29 gpm	44 gpm	59 gpm	70 gpm	63 gpm	49 gpm	31 gpm	28 gpm	28 gpm

Annual Demand for Potable Water	**45.4 AFA**
Annual Demand for Irrigation Water	**20.2 AFA**
Total Annual Demand of Potable and Irrigation Water	**65.6 AFA**

City of Ketchum
South Gateway Water Supply
Brockway Engineering
Community Housing South Sub District

Two Level Duplex's
5 Units/Acre

Estimated irrigation area 2.2 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.0 AF	0.7 AF	1.4 AF	1.9 AF	1.6 AF	0.9 AF	0.1 AF			**6.7 AFA**
Gallons per day				515 gpd	7804 gpd	14983 gpd	20284 gpd	16566 gpd	10160 gpd	1288 gpd			

Daily Potable and Irriagtion Demand												
	13514 gpd	13514 gpd	13514 gpd	14029 gpd	21318 gpd	28496 gpd	33798 gpd	30079 gpd	23674 gpd	14802 gpd	13514 gpd	13514 gpd
	9 gpm	9 gpm	9 gpm	10 gpm	15 gpm	20 gpm	23 gpm	21 gpm	16 gpm	10 gpm	9 gpm	9 gpm

Annual Demand for Potable Water	**15.1 AFA**
Annual Demand for Irrigation Water	**6.7 AFA**
Total Annual Demand of Potable and Irrigation Water	**21.9 AFA**

Two Level Duplex's
8 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 3.6 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.2 AF	2.2 AF	3.1 AF	2.5 AF	1.5 AF	0.2 AF			**10.8 AFA**
Gallons per day				825 gpd	12487 gpd	23973 gpd	32454 gpd	26505 gpd	16257 gpd	2062 gpd			

Daily Potable and Irriagtion Demand												
	21622 gpd	21622 gpd	21622 gpd	22446 gpd	34109 gpd	45594 gpd	54076 gpd	48127 gpd	37878 gpd	23683 gpd	21622 gpd	21622 gpd
	15 gpm	15 gpm	15 gpm	16 gpm	24 gpm	32 gpm	38 gpm	33 gpm	26 gpm	16 gpm	15 gpm	15 gpm

Annual Demand for Potable Water	**24.2 AFA**
Annual Demand for Irrigation Water	**10.8 AFA**
Total Annual Demand of Potable and Irrigation Water	**35.0 AFA**

Two Level Duplex's
12 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 5.4 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	1.8 AF	3.3 AF	4.6 AF	3.8 AF	2.2 AF	0.3 AF			**16.2 AFA**
Gallons per day				1237 gpd	18730 gpd	35959 gpd	48682 gpd	39758 gpd	24385 gpd	3092 gpd			

Daily Potable and Irriagtion Demand												
	32432 gpd	32432 gpd	32432 gpd	33669 gpd	51163 gpd	68391 gpd	81114 gpd	72191 gpd	56817 gpd	35525 gpd	32432 gpd	32432 gpd
	23 gpm	23 gpm	23 gpm	23 gpm	36 gpm	47 gpm	56 gpm	50 gpm	39 gpm	25 gpm	23 gpm	23 gpm

Annual Demand for Potable Water	**36.3 AFA**
Annual Demand for Irrigation Water	**16.2 AFA**
Total Annual Demand of Potable and Irrigation Water	**52.5 AFA**

Two Level Duplex's
15 Units/Acre

Estimated Irrigation Requirement for Common and Backyard Area 6.7 Acres

	January	February	March	April	May	June	July	August	September	October	November	December	Total
Acre-Feet-Annually				0.1 AF	2.2 AF	4.1 AF	5.8 AF	4.7 AF	2.8 AF	0.4 AF			**20.2 AFA**
Gallons per day				1546 gpd	23413 gpd	44949 gpd	60852 gpd	49698 gpd	30481 gpd	3865 gpd			

Daily Potable and Irriagtion Demand												
	40541 gpd	40541 gpd	40541 gpd	42087 gpd	63954 gpd	85489 gpd	101393 gpd	90238 gpd	71022 gpd	44406 gpd	40541 gpd	40541 gpd
	28 gpm	28 gpm	28 gpm	29 gpm	44 gpm	59 gpm	70 gpm	63 gpm	49 gpm	31 gpm	28 gpm	28 gpm

Annual Demand for Potable Water	**45.4 AFA**
Annual Demand for Irrigation Water	**20.2 AFA**
Total Annual Demand of Potable and Irrigation Water	**65.6 AFA**

Table 4

South Gateway Water Supply
Brockway Engineering
Light Industrial Sub District

Service Station	15	gal/employee/day	4	employees/unit
Office	16	gal/employee/day	2500	Square feet for Irrigation/Unit
Industrial Building	16	gal/employee/day	65%	Irrigation Efficiency
Average	15.7	gal/employee/day		

Goitiandia and Randall Businesses	**4 Units**
Daily Water Demand	251 gpd

Potable Water Demand

Sub-District	Acres	15 Units/Acre Units	12 Units/Acre Units	8 Units/Acre Units	5 Units/Acre Units
CH-LI	**3.61**	54	43	29	18

Total Water Demand

	15 Units/Acre	12 Units/Acre	8 Units/Acre	5 Units/Acre
Proposed Build Out	3393 gpd	2715 gpd	1810 gpd	1131 gpd
Existing Businesses	251 gpd	251 gpd	251 gpd	251 gpd
Total Daily Demand	3644 gpd	2965 gpd	2060 gpd	1382 gpd
	2.5 gpm	2.1 gpm	1.4 gpm	1.0 gpm
Annual Demand for Potable Water	**4.1 AFA**	**3.3 AFA**	**2.3 AFA**	**1.5 AFA**

Appendix 5:

Peak Water Requirement Calculations

Table 1

PEAK WATER REQUIREMENTS ESTIMATION
RESIDENTIAL SUBDIVISION -- POTABLE AND IRRIGATION DEMAND

PROJECT: City of Ketchum South Gateway Water Supply

Brockway Engineering 12/5/2012

DOMESTIC

Number of units				
Max Community Housing Density	15 Units/Acre	986 Units	2958 Persons	
Light Industrial	15 Units/Acre	58 Units	233 Employees	
Average per-capita demand		**69.3**	gpcd	
Average per-employee demand		**15.7**	gpcd	
Average daily demand		208662	gpd	
Average continuous pumping demand		145	gpm	
		0.32	cfs	
Total annual withdrawal		233.7	acre-feet/year	
Consumptive use fraction		**0.15**		
Total consumptive use		35.1	acre-feet/year	
Max day : average factor		**3**		
Peak hour : average factor		**5.1**		
Max daily withdrawal		625986	gpd	
Max daily continuous withdrawal		435	gpm	
Peak hourly withdrawal		739.0	gpm	
		1.65	cfs	

IRRIGATION

Project irrigated area - lots	**0**	acres	
Project irrigated area - common areas	**34.0**	acres	
Project irrigated area - TOTAL	34.0	acres	
Seasonal ET - pasture (University of Idaho, 2012)	**597**	mm	
	23.50	inches or	66.5 acre-feet
Irrigation application efficiency	**65.0%**		
Irrigation water requirement	36.16	inches	
Total annual irrigation volume	102.3	acre-feet/year	
Peak monthly ET - July	**5.51**	mm/day	
	0.22	in/day	
Standard deviation of peak ET	**0.58**	mm/day	
	0.02	in/day	
Design probability level	**95%**		
Peak day : peak month factor	**1.4**		
Design peak ET	0.356	in/day	
Design peak application rate	0.548	in/day	
Design peak flow rate	0.78	cfs	
	351.0	gpm	
	0.023	cfs/acre	

Total potable and irrigation demand	336.1	acre-feet/year
Total potable and irrigation consumptive use	101.6	acre-feet/year
Average continuous demand for potable and irrigation demand	495.9	gpm
Peak hourly demand for potable and irrigation demand	1090.0	gpm

Appendix 6:

Theis Multiple Well Analysis

Average Daily Demand

Peak Hourly Demand

F:\PROJECTS\KETCHUM CITY - SOUTHGATEWAY WATER SUPPLY\Proposed well locations.mxd

0 750 1,500 Feet

CITY OF KETCHUM - SOUTHERN GATEWAY
PROPOSED WELL LOCATIONS
NAIP 2011 AERIAL

LEGEND

- Observed Wells
- Proposed Wells
- twnshp
- Section_Lines
- ladesc

N

BROCKWAY ENGINEERING, PLLC.
ALR - NOV. 28, 2012

Table 1

Multiple Well Interference 365 Day Analysis

Estimated Well Drawdown at target points from multiple pumping wells

Brockway Engineering P.L.L.C.

AQUIFER PROPERTIES BASED ON PUMPING TESTS, USGS

Ketchum Gateway

INPUT

AQUIFER PROPERTIES

K=	**168.1**	FT/DAY	TRANSMISSIVITY=	1.28E+09	FT^2/SEC
K=	0.0019456	CFS/FT^2	TRANSMISSIVITY=	14786.8	FT^2/DAY
K=	1254.03	GPD/FT^2	TRANSMISSIVITY=	110605	GPD/FT
SAT.DEPTH	**88.2**	FT	STORATIVITY	**0.150**	

HISTORICAL PUMPING

WELL	DIA. IN	Historical CFS	Total CFS	GPM	AFA	Days Pumping
1	**12**	**0.00**	0.00	0	0	**365**
2	**10**	**0.00**	0.00	0	0	365
3	**10**	**0.00**	0.00	0	0	365
4			0.00	0	0	365
5			0.00	0	0	365
					0	

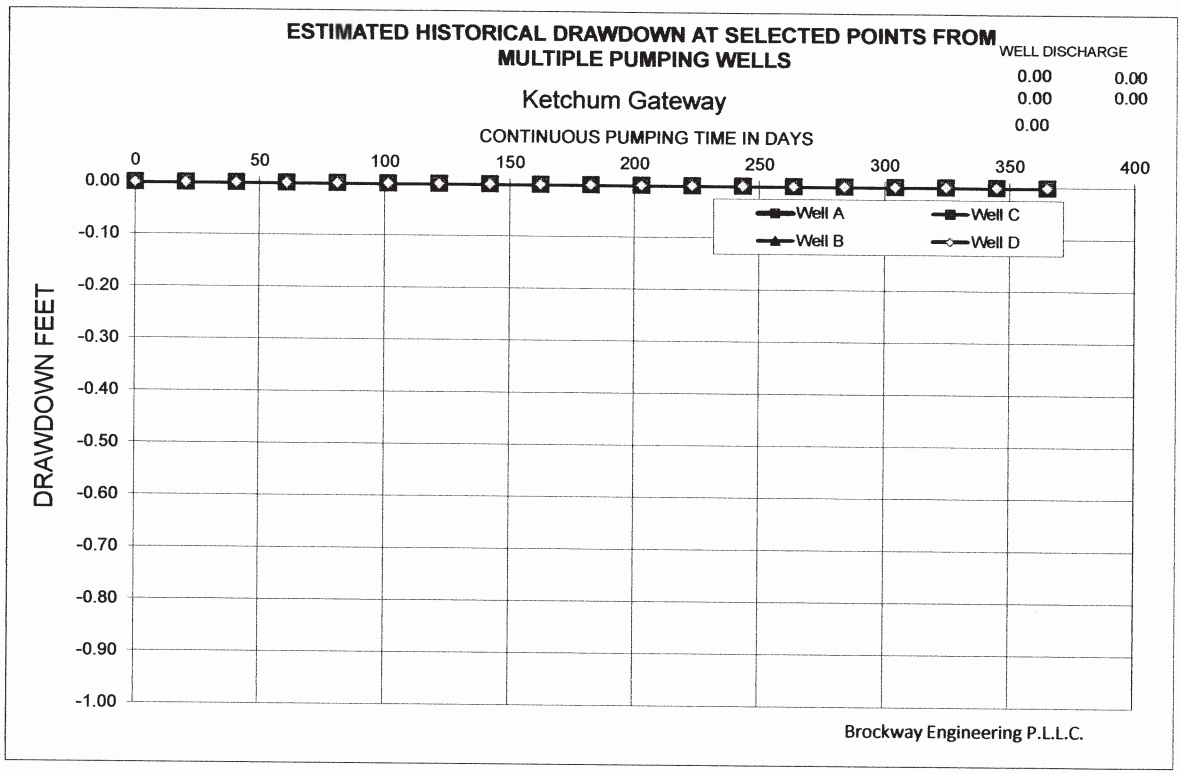
Additional GPM Value **495.9**

PROPOSED PUMPING — Additional Volume Pumped 797 AFA

WELL	DIA. IN	Historical CFS	Additional CFS	Total CFS	GPM	AFA	Days Pumping
1	12	0.00	**0.37**	0.37	165	266	365
2	10	0.00	**0.37**	0.37	165	266	365
3	10	0.00	**0.37**	0.37	165	266	365
4	0	0.00	**0.00**	0.00	0	0	365
5	0	0.00	**0.00**	0.00	0	0	365
						797	

WELL	WELL	TARGET	DIST. FT	
1	**Well 1**	Point A	**4470**	**Well A**
	Well 1	Point B	**2760**	**Well B**
	Well 1	Point C	**1280**	**Well C**
	Well 1	Point D	**1180**	**Well D**
2	**Well 2**	Point A	**2770**	Well A
	Well 2	Point B	**1380**	Well B
	Well 2	Point C	**1460**	Well C
	Well 2	Point D	**3080**	Well D
3	**Well 3**	Point A	**1010**	Well A
	Well 3	Point B	**1350**	Well B
	Well 3	Point C	**2850**	Well C
	Well 3	Point D	**4920**	Well D
4	**Well 4**	Point A		Well A
	Well 4	Point B		Well B
	Well 4	Point C		Well C
	Well 4	Point D		Well D
5	**Well 5**	Point A		Well A
	Well 5	Point B		Well B
	Well 5	Point C		Well C
	Well 5	Point D		Well D

Figure 1 and 2: 365 Day Analysis



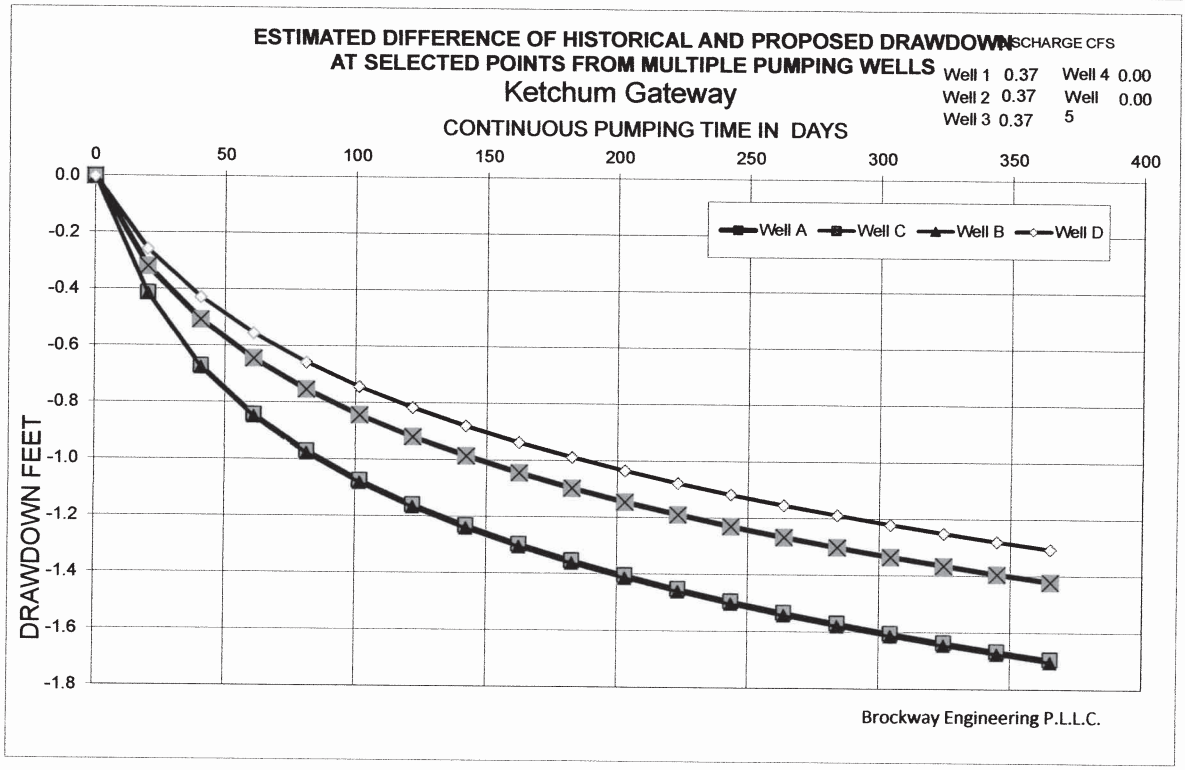


Table 2

Multiple Well Interference 12 Day Analysis

Estimated Well Drawdown at target points from multiple pumping wells

Brockway Engineering P.L.L.C.

AQUIFER PROPERTIES BASED ON PUMPING TESTS, USGS

Ketchum Gateway

INPUT

AQUIFER PROPERTIES

K=	**168.1**	FT/DAY	TRANSMISSIVITY=	1.28E+09	FT^2/SEC
K=	0.0019456	CFS/FT^2	TRANSMISSIVITY=	14786.8	FT^2/DAY
K=	1254.03	GPD/FT^2	TRANSMISSIVITY=	110605	GPD/FT
SAT.DEPTH	**88.2**	FT	STORATIVITY	**0.150**	

HISTORICAL PUMPING

WELL	DIA. IN	Historical CFS	Total CFS	GPM	AFA	Days Pumping
1	**12**	**0.00**	0.00	0	0	**12.0**
2	**10**	**0.00**	0.00	0	0	12.0
3	**10**	**0.00**	0.00	0	0	12.0
4			0.00	0	0	12.0
5			0.00	0	0	12.0
					0	

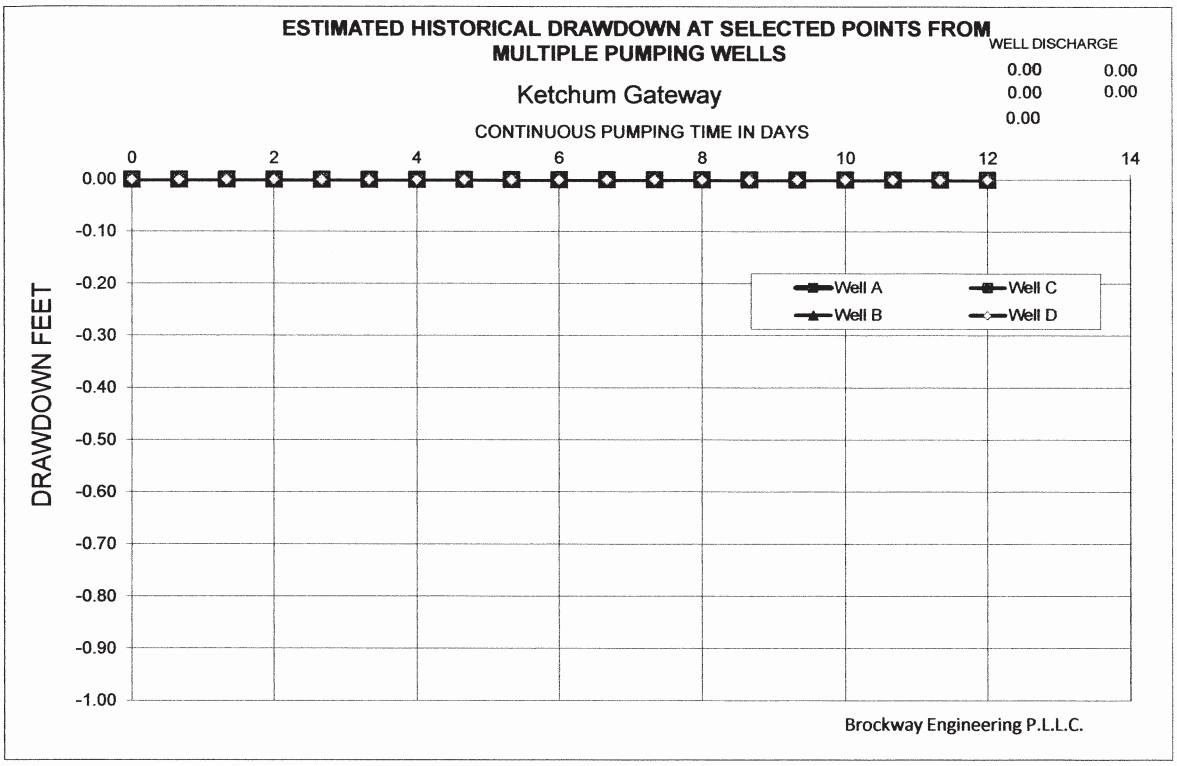
Additional GPM Value **1090.0**

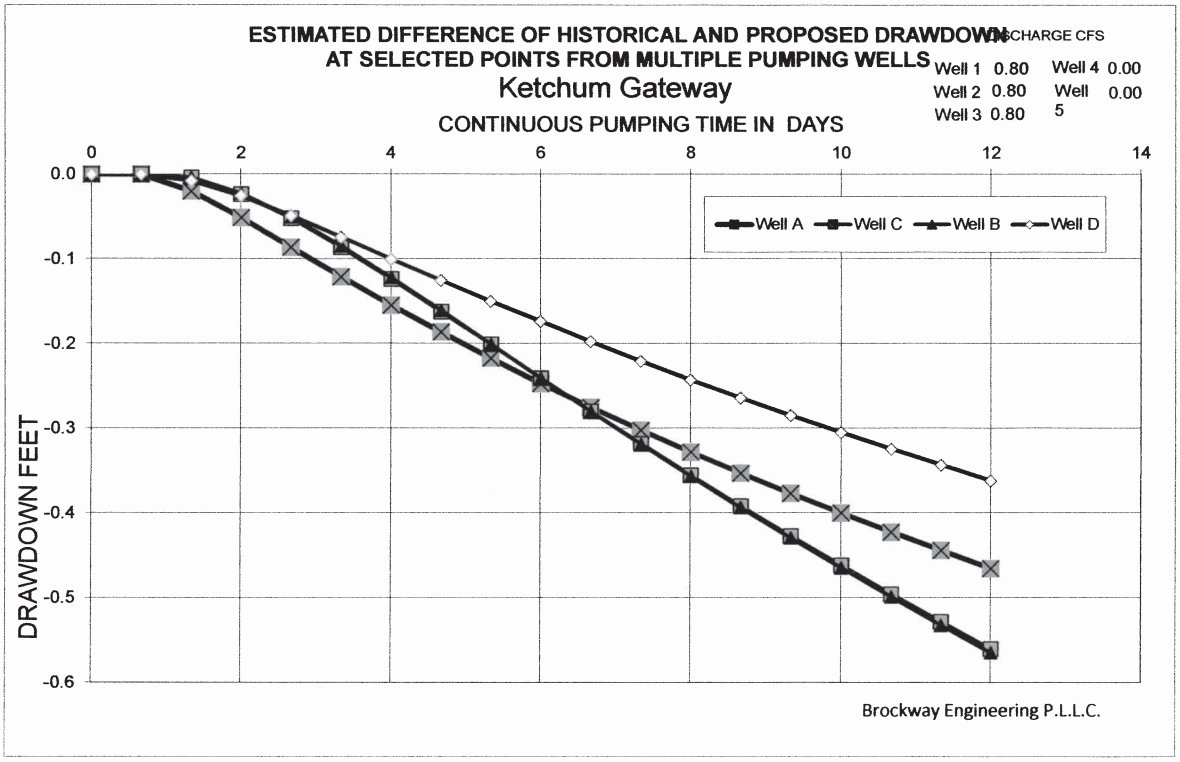
PROPOSED PUMPING — Additional Volume Pumped 57 AFA

WELL	DIA. IN	Historical CFS	Additional CFS	Total CFS	GPM	AFA	Days Pumping
1	12	0.00	**0.80**	0.80	361	19	12
2	10	0.00	**0.80**	0.80	361	19	12
3	10	0.00	**0.80**	0.80	361	19	12
4	0	0.00	**0.00**	0.00	0	0	12
5	0	0.00	**0.00**	0.00	0	0	12
						57	

WELL	WELL	TARGET	DIST. FT	
1	**Well 1**	Point A	**4470**	**Well A**
	Well 1	Point B	**2760**	**Well B**
	Well 1	Point C	**1280**	**Well C**
	Well 1	Point D	**1180**	**Well D**
2	**Well 2**	Point A	**2770**	Well A
	Well 2	Point B	**1380**	Well B
	Well 2	Point C	**1460**	Well C
	Well 2	Point D	**3080**	Well D
3	**Well 3**	Point A	**1010**	Well A
	Well 3	Point B	**1350**	Well B
	Well 3	Point C	**2850**	Well C
	Well 3	Point D	**4920**	Well D
4	**Well 4**	Point A		Well A
	Well 4	Point B		Well B
	Well 4	Point C		Well C
	Well 4	Point D		Well D
5	**Well 5**	Point A		Well A
	Well 5	Point B		Well B
	Well 5	Point C		Well C
	Well 5	Point D		Well D

Figure 3 and 4:12 Day Analysis





Appendix 7:

Big Wood River Aquifer Water Quality Data
Mid Valley Water Company

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # 1042751
DATE LAB REC'D SAMPLE: 8/9/2010	DATE REPORTED BY LAB: 10/25/2010
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **8/9/2010**	COLLECTION TIME: **11:07:00 AM** (24 hour clock)
SAMPLE TYPE ☐ CO-confirmation ☐ DU-duplicate ☒ RT-routine ☐ RP-repeat ☐ SP-special ☐ OTHER:_____	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **#2 W**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	CONTACT PHONE #:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium	**0.05**	2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium	**<0.0010**	0.005	0.0005	3113B			1036	Nickel	**<0.05**	N/a	0.01	3113B		
1020	Chromium	**<0.0010**	0.1	0.005	3113B			1074	Antimony	**<0.0010**	0.006	0.005	200.9		
1035	Mercury	**<0.00050**	0.002	0.001	245.1			1075	Beryllium	**<0.0010**	0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium	**<0.0010**	0.002	0.002	200.9		
1040	Nitrate		10					Other IOCs							
1041	Nitrite		1.0					1005	Arsenic	**<0.0020**	0.010	0.001	200.8		**
1045	Selenium	**<0.0020**	0.05	0.005	200.9			1025	Fluoride	**0.46**	4.0	0.30	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium	**5.7**	N/a	0.5	3111B		
Secondary IOCs (optional)															
1002	Aluminum		0.05-0.2	0.1	200.7			1050	Silver		0.1	0.05	3111B		
1003	Ammonia as N			0.05	350.2			1055	Sulfate		250	1	300.0		
1016	Calcium			0.5	3111B			1095	Zinc		5	0.05	3111B		
1017	Chloride		250	0.14	300.0			1905	Color		15c.u.	1	110.2		
1022	Copper		1.0	0.1	3111B			1915	Hardness as CaCO3			5	2340B		
1026†	Conductivity µg/cm			10	120.1			1920	Odor (threshold #)		3	1	140.1		
1027	Hydrogen Sulfide			0.1	8131			1925	pH		6.5-8.5		150.1		
1028	Iron		0.3	0.1	3111B			1927	Alkalinity as CaCO3			5	310.1		
1031	Magnesium			0.2	3111B			1930	Dissolved Solids		500	1	160.1		
1032	Manganese		0.05	0.05	3111B			1997	Langlier Index						
1042	Potassium			0.5	3111B			2905	Surfactants			0.1	5540C		
1049	Silica as SiO2			1	200.8			1030	Lead		0.015		3113b		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed ND = Not detected within sensitivity of instrument
☆EPA 600/4-83-043 **Test performed by ANATEK LABS, INC

COMMENTS:

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

_____
Signature of Laboratory Supervisor **Date**

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # 644611
DATE LAB REC'D SAMPLE: 8/18/2006	DATE REPORTED BY LAB: 10/26/2006
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **8/18/2006**	COLLECTION TIME: **3:18:00 PM** (24 hour clock)
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **WELL #1**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	CONTACT PHONE #:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel	**<0.01**	N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony	**<0.005**	0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium	**<0.0005**	0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium	**<0.002**	0.002	0.002	200.9		
1040	Nitrate		10					Other IOCs							
1041	Nitrite		1.0					1005	Arsenic	**<0.005**	0.010	0.001	200.8		**
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.30	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium	**5.55**	N/a	0.5	3111B		
Secondary IOCs (optional)															
1002	Aluminum		0.05-0.2	0.1	200.7			1050	Silver		0.1	0.05	3111B		
1003	Ammonia as N			0.05	350.2			1055	Sulfate		250	1	300.0		
1016	Calcium			0.5	3111B			1095	Zinc		5	0.05	3111B		
1017	Chloride		250	0.14	300.0			1905	Color		15c.u.	1	110.2		
1022	Copper		1.0	0.1	3111B			1915	Hardness as CaCO3			5	2340B		
1026†	Conductivity µg/cm			10	120.1			1920	Odor (threshold #)		3	1	140.1		
1027	Hydrogen Sulfide			0.1	8131			1925	pH		6.5-8.5		150.1		
1028	Iron		0.3	0.1	3111B			1927	Alkalinity as CaCO3			5	310.1		
1031	Magnesium			0.2	3111B			1930	Dissolved Solids		500	1	160.1		
1032	Manganese		0.05	0.05	3111B			1997	Langlier Index						
1042	Potassium			0.5	3111B			2905	Surfactants			0.1	5540C		
1049	Silica as SiO2			1	200.8			1030	Lead		0.015		3113b		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed ND = Not detected within sensitivity of instrument
☆EPA 600/4-83-043 **Test performed by ANATEK LABS, INC

COMMENTS:

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

Signature of Laboratory Supervisor **Date**

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **644601**
DATE LAB REC'D SAMPLE: **8/18/2006**	DATE REPORTED BY LAB: **9/1/2006**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **8/18/2006**	COLLECTION TIME: **3:18:00 PM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **WELL #1**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	JURISDICTION:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.32	10	0.30	300.0	8/30/2006	JB	Other IOCs							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **773971**
DATE LAB REC'D SAMPLE: **10/23/2007**	DATE REPORTED BY LAB: **11/1/2007**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **10/23/2007**	COLLECTION TIME: **6:45:00 AM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **WELL TAP**	TAG #/FACILITY ID:
COLLECTOR'S NAME: **CORY CRESS**	JURISDICTION:

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PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.48	10	0.30	300.0	10/23/2007	JH	Other IOCs							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit — = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **854401**
DATE LAB REC'D SAMPLE: **8/12/2008**	DATE REPORTED BY LAB: **8/19/2008**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **8/12/2008**	COLLECTION TIME: **6:36:00 AM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **IWN**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	JURISDICTION:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.40	10	0.30	300.0	8/16/2008	JB	Other IOCs							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **967961**
DATE LAB REC'D SAMPLE: **10/27/2009**	DATE REPORTED BY LAB: **11/4/2009**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **10/27/2009**	COLLECTION TIME: **8:05:00 AM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **#2 W WELL TAP**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	JURISDICTION:

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TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								*Phase V*							
FRDS	**Contaminant**	**Result***	**MCL***	**PQL***	**Method**	**Analysis Date**	**Analyst**	**FRDS**	**Contaminant**	**Result***	**MCL***	**PQL***	**Method**	**Analysis Date**	**Analyst**
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.34	10	0.30	300.0	10/27/2009	JB	*Other IOCs*							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **1042741**
DATE LAB REC'D SAMPLE: **8/9/2010**	DATE REPORTED BY LAB: **11/1/2010**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **8/9/2010**	COLLECTION TIME: **11:07:00 AM**
SAMPLE TYPE ☒ RT-routine ☐ CO-confirmation ☐ DU-duplicate ☐ RP-repeat ☐ SP-special ☐ OTHER:_____	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **#1 W**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	JURISDICTION:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.39	10	0.30	300.0	8/9/2010	JF	Other IOCs							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **1165461**
DATE LAB REC'D SAMPLE: **11/11/2011**	DATE REPORTED BY LAB: **11/22/2011**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **11/10/2011**	COLLECTION TIME: **11:45:00 AM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **PUMPHOUSE**	TAG #/FACILITY ID:
COLLECTOR'S NAME: **JIM ZARUBICA**	JURISDICTION:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.38	10	0.30	300.0	11/11/2011	JJ	Other IOCs							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **1240181**
DATE LAB REC'D SAMPLE: **9/7/2012**	DATE REPORTED BY LAB: **9/14/2012**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **9/6/2012**	COLLECTION TIME: **10:00:00 AM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **SHOP**	TAG #/FACILITY ID:
COLLECTOR'S NAME:	JURISDICTION:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								Phase V							
FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst	FRDS	Contaminant	Result*	MCL*	PQL*	Method	Analysis Date	Analyst
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	<0.30	10	0.30	300.0	9/7/2012	JJ	Other IOCs							
1041	Nitrite	.	1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1☆			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor **Date**

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

LAB FEDERAL ID#: ID 00911	LAB SAMPLE # **1165461**
DATE LAB REC'D SAMPLE: **11/11/2011**	DATE REPORTED BY LAB: **11/22/2011**
COMPLIANCE SAMPLE: ☒ YES ☐ NO	REPLACEMENT SAMPLE ☐
COLLECTION DATE: **11/10/2011**	COLLECTION TIME: **11:45:00 AM**
SAMPLE TYPE ☐ CO-confirmation ☐ RP-repeat ☐ SP-special ☐ OTHER:_____ ☒ RT-routine ☐ DU-duplicate	
PWS#: **5070038**	PWS NAME: **MEADOWS THE**
SAMPLING POINT/LOCATION: **PUMPHOUSE**	TAG #/FACILITY ID:
COLLECTOR'S NAME: **JIM ZARUBICA**	JURISDICTION:

MAGIC VALLEY LABS
210 ADDISON AVE, PO BOX 1867
TWIN FALLS, ID 83301
(208) 733-4250

PUBLIC DRINKING WATER SYSTEM INORGANIC CHEMICAL (IOC) ANALYSIS REPORT

Phase II								*Phase V*							
FRDS	**Contaminant**	**Result***	**MCL***	**PQL***	**Method**	**Analysis Date**	**Analyst**	**FRDS**	**Contaminant**	**Result***	**MCL***	**PQL***	**Method**	**Analysis Date**	**Analyst**
1010	Barium		2	0.5	3111D			1024	Cyanide		0.2				
1015	Cadmium		0.005	0.0005	3113B			1036	Nickel		N/a	0.01	3113B		
1020	Chromium		0.1	0.005	3113B			1074	Antimony		0.006	0.005	200.9		
1035	Mercury		0.002	0.001	245.1			1075	Beryllium		0.004	0.0005	200.9		
1038	Ttl (N02/NO3)		10					1085	Thallium		0.002	0.002	200.9		
1040	Nitrate	0.38	10	0.30	300.0	11/11/2011	JJ	Other IOCs							
1041	Nitrite		1.0	0.20	300.0			1005	Arsenic		0.010	0.005	200.9		
1045	Selenium		0.05	0.005	200.9			1025	Fluoride		4.0	0.02	300.0		
1094	Asbestos		7 MFL	0.18	100.1†			1052	Sodium		N/a	0.5	3111B		

*Reported in mg/L unless otherwise noted † = formerly FRDS No. 1926 PQL = Process Qualitivity limit --- = No analysis performed
ND = Not detected within sensitivity of instrument

Signature of Laboratory Supervisor Date 12/05/11

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MEADOWS THE
P.O. BOX 4380
KETCHUM, ID 83340

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	11/7/2012	Date Received	11/8/2012
Time Collected	3:15:00 PM	Time Received	10:30:00 AM

Sample # **3011122801**
Type S - ROUTINE SAMPLE
Location PUMP HOUSE
Collector JIM Z

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 11/9/2012
Analyst: JD
Reviewed by:

Analyzed: Date 11/8/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	10/22/2012	Date Received	10/23/2012
Time Collected	11:00:00 AM	Time Received	9:25:00 AM

Sample # **3011119591**
Type S - ROUTINE SAMPLE
Location RV PARK RESTROOM
Collector JIM Z

Chlorine Residual: ppm

Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 10/24/2012
Analyst: JD
Reviewed by:

Analyzed: Date 10/23/2012
Time 10:00:00 AM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	9/6/2012	Date Received	9/7/2012
Time Collected	10:00:00 AM	Time Received	9:30:00 AM

Sample # **3011107871**
Type S - ROUTINE SAMPLE
Location SHOP
Collector JIM Z

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 9/8/2012
Analyst: MW
Reviewed by:

Analyzed: Date 9/7/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	8/15/2012	Date Received	8/16/2012
Time Collected	2:00:00 PM	Time Received	10:10:00 AM

Sample # **3011102991**
Type S - ROUTINE SAMPLE
Location OFFICE
Collector JBZ

Chlorine Residual: ppm

Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 8/17/2012
Analyst: JD
Reviewed by: _____

Analyzed: Date 8/16/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	7/12/2012	Date Received	7/13/2012
Time Collected	12:15:00 PM	Time Received	9:35:00 AM

Sample # **3011094851**
Type S - ROUTINE SAMPLE
Location PUMP HOUSE
Collector JIM Z

Chlorine Residual: ppm

Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 7/14/2012
Analyst: JD
Reviewed by:

Analyzed: Date 7/13/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	6/14/2012	Date Received	6/15/2012
Time Collected	11:15:00 AM	Time Received	11:15:00 AM

Sample # **3011088161**
Type S - ROUTINE SAMPLE
Location SHOP
Collector JIM Z

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 6/16/2012
Analyst: JJ
Reviewed by:

Analyzed: Date 6/15/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	4/12/2012	Date Received	4/13/2012
Time Collected	2:20:00 PM	Time Received	10:34:00 AM

Sample # **3011074661**
Type S - ROUTINE SAMPLE
Location PUMP HOUSE
Collector JIM ZARUBICA

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 4/14/2012
Analyst: JJ
Reviewed by:

Analyzed: Date 4/13/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	3/8/2012	Date Received	3/9/2012
Time Collected	9:30:00 AM	Time Received	9:45:00 AM

Sample # **3011067631**
Type S - ROUTINE SAMPLE
Location PUMPHOUSE
Collector JIM ZAMBICA

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 3/10/2012 **Analyzed: Date** 3/9/2012
Analyst: JD **Time** 4:00:00 PM
Reviewed by:

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	5/10/2012	Date Received	5/11/2012
Time Collected	2:45:00 PM	Time Received	9:25:00 AM

Sample # **3011080551**
Type S - ROUTINE SAMPLE
Location RV RESTROOM
Collector JIM Z

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 5/12/2012
Analyst: JJ
Reviewed by:

Analyzed: Date 5/11/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	2/2/2012	Date Received	2/3/2012
Time Collected	12:00:00 PM	Time Received	10:25:00 AM

Sample # **3011060571**
Type S - ROUTINE SAMPLE
Location PUMP HOUSE
Collector JIM Z

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 2/4/2012
Analyst: MW
Reviewed by:

Analyzed: Date 2/3/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	1/26/2012	Date Received	1/27/2012
Time Collected	12:45:00 PM	Time Received	10:29:00 AM

Sample # **3011058891**
Type S - ROUTINE SAMPLE
Location PUMP HOUSE
Collector JIM ZARUBICA

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 1/28/2012
Analyst: JD
Reviewed by:

Analyzed: Date 1/27/2012
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	12/21/2011	Date Received	12/22/2011
Time Collected	11:00:00 AM	Time Received	9:30:00 AM

Sample # **3011051511**
Type S - ROUTINE SAMPLE
Location MEADOWS OFFICE
Collector JB ZAMBICA

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 12/23/2011
Analyst: MW
Reviewed by:

Analyzed: Date 12/22/2011
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

MAGIC VALLEY LABS
210 ADDISON AVE
TWIN FALLS, ID 83301
208-733-4250
Laboratory Supervisor: Brenda Ellis

PWS #: 5070038
MEADOWS THE
PO BOX 4380
KETCHUM, ID 83340

LAB ID # ID00911

COLIFORM BACTERIA ANALYSIS REPORT

Date Collected	11/10/2011	Date Received	11/11/2011
Time Collected	11:45:00 AM	Time Received	9:50:00 AM

Sample # **3011043351**
Type S - ROUTINE SAMPLE
Location SAMPLE TAP-WELL HOUSE
Collector JIM Z

Chlorine Residual: ppm Date of Original Positive:

Copy: SCIRO

Test Performed	Method	Result
Total Coliform	SM9223BCT	ABSENT

Completed Date: 11/12/2011
Analyst: MW
Reviewed by:

Analyzed: Date 11/11/2011
Time 3:00:00 PM

SM9223B CT Standard Method 9223B Colilert Reagent
SM9223B CS Standard Method 9223B Colisure Reagent

Appendix 8:

Fire Flow Requirements For Buildings

APPENDIX B
FIRE-FLOW REQUIREMENTS FOR BUILDINGS

The provisions contained in this appendix are not mandatory unless specifically referenced in the adopting ordinance.

SECTION B101
GENERAL

B101.1 Scope. The procedure for determining fire-flow requirements for buildings or portions of buildings hereafter constructed shall be in accordance with this appendix. This appendix does not apply to structures other than buildings.

SECTION B102
DEFINITIONS

B102.1 Definitions. For the purpose of this appendix, certain terms are defined as follows:

FIRE-FLOW. The flow rate of a water supply, measured at 20 pounds per square inch (psi) (138 kPa) residual pressure, that is available for fire fighting.

FIRE-FLOW CALCULATION AREA. The floor area, in square feet (m^2), used to determine the required fire flow.

SECTION B103
MODIFICATIONS

B103.1 Decreases. The fire chief is authorized to reduce the fire-flow requirements for isolated buildings or a group of buildings in rural areas or small communities where the development of full fire-flow requirements is impractical.

B103.2 Increases. The fire chief is authorized to increase the fire-flow requirements where conditions indicate an unusual susceptibility to group fires or conflagrations. An increase shall not be more than twice that required for the building under consideration.

B103.3 Areas without water supply systems. For information regarding water supplies for fire-fighting purposes in rural and suburban areas in which adequate and reliable water supply systems do not exist, the *fire code official* is authorized to utilize NFPA 1142 or the *International Wildland-Urban Interface Code.*

SECTION B104
FIRE-FLOW CALCULATION AREA

B104.1 General. The fire-flow calculation area shall be the total floor area of all floor levels within the *exterior walls*, and under the horizontal projections of the roof of a building, except as modified in Section B104.3.

B104.2 Area separation. Portions of buildings which are separated by *fire walls* without openings, constructed in accordance with the *International Building Code*, are allowed to be considered as separate fire-flow calculation areas.

B104.3 Type IA and Type IB construction. The fire-flow calculation area of buildings constructed of Type IA and Type IB construction shall be the area of the three largest successive floors.

Exception: Fire-flow calculation area for open parking garages shall be determined by the area of the largest floor.

SECTION B105
FIRE-FLOW REQUIREMENTS FOR BUILDINGS

B105.1 One- and two-family dwellings. The minimum fire-flow and flow duration requirements for one- and two-family *dwellings* having a fire-flow calculation area that does not exceed 3,600 square feet (344.5 m^2) shall be 1,000 gallons per minute (3785.4 L/min) for 1 hour. Fire-flow and flow duration for dwellings having a fire-flow calculation area in excess of 3,600 square feet (344.5m^2) shall not be less than that specified in Table B105.1.

Exception: A reduction in required fire-flow of 50 percent, as *approved*, is allowed when the building is equipped with an *approved automatic sprinkler system.*

B105.2 Buildings other than one- and two-family dwellings. The minimum fire-flow and flow duration for buildings other than one- and two-family *dwellings* shall be as specified in Table B105.1.

Exception: A reduction in required fire-flow of up to 75 percent, as *approved*, is allowed when the building is provided with an *approved automatic sprinkler system* installed in accordance with Section 903.3.1.1 or 903.3.1.2. The resulting fire-flow shall not be less than 1,500 gallons per minute (5678 L/min) for the prescribed duration as specified in Table B105.1.

SECTION B106
REFERENCED STANDARDS

ICC	IBC-09	International Building Code	B104.2, Table B105.1
ICC	IWUIC-09	International Wildland-Urban Interface Code	B103.3
NFPA	1142-07	Standard on Water Supplies for Suburban and Rural Fire Fighting	B103.3

TABLE B105.1
MINIMUM REQUIRED FIRE-FLOW AND FLOW DURATION FOR BUILDINGS

FIRE-FLOW CALCULATION AREA (square feet)					FIRE-FLOW (gallons per minute)[b]	FLOW DURATION (hours)
Type IA and IB[a]	Type IIA and IIIA[a]	Type IV and V-A[a]	Type IIB and IIIB[a]	Type V-B[a]		
0-22,700	0-12,700	0-8,200	0-5,900	0-3,600	1,500	2
22,701-30,200	12,701-17,000	8,201-10,900	5,901-7,900	3,601-4,800	1,750	
30,201-38,700	17,001-21,800	10,901-12,900	7,901-9,800	4,801-6,200	2,000	
38,701-48,300	21,801-24,200	12,901-17,400	9,801-12,600	6,201-7,700	2,250	
48,301-59,000	24,201-33,200	17,401-21,300	12,601-15,400	7,701-9,400	2,500	
59,001-70,900	33,201-39,700	21,301-25,500	15,401-18,400	9,401-11,300	2,750	
70,901-83,700	39,701-47,100	25,501-30,100	18,401-21,800	11,301-13,400	3,000	3
83,701-97,700	47,101-54,900	30,101-35,200	21,801-25,900	13,401-15,600	3,250	
97,701-112,700	54,901-63,400	35,201-40,600	25,901-29,300	15,601-18,000	3,500	
112,701-128,700	63,401-72,400	40,601-46,400	29,301-33,500	18,001-20,600	3,750	
128,701-145,900	72,401-82,100	46,401-52,500	33,501-37,900	20,601-23,300	4,000	4
145,901-164,200	82,101-92,400	52,501-59,100	37,901-42,700	23,301-26,300	4,250	
164,201-183,400	92,401-103,100	59,101-66,000	42,701-47,700	26,301-29,300	4,500	
183,401-203,700	103,101-114,600	66,001-73,300	47,701-53,000	29,301-32,600	4,750	
203,701-225,200	114,601-126,700	73,301-81,100	53,001-58,600	32,601-36,000	5,000	
225,201-247,700	126,701-139,400	81,101-89,200	58,601-65,400	36,001-39,600	5,250	
247,701-271,200	139,401-152,600	89,201-97,700	65,401-70,600	39,601-43,400	5,500	
271,201-295,900	152,601-166,500	97,701-106,500	70,601-77,000	43,401-47,400	5,750	
295,901-Greater	166,501-Greater	106,501-115,800	77,001-83,700	47,401-51,500	6,000	
—	—	115,801-125,500	83,701-90,600	51,501-55,700	6,250	
—	—	125,501-135,500	90,601-97,900	55,701-60,200	6,500	
—	—	135,501-145,800	97,901-106,800	60,201-64,800	6,750	
—	—	145,801-156,700	106,801-113,200	64,801-69,600	7,000	
—	—	156,701-167,900	113,201-121,300	69,601-74,600	7,250	
—	—	167,901-179,400	121,301-129,600	74,601-79,800	7,500	
—	—	179,401-191,400	129,601-138,300	79,801-85,100	7,750	
—	—	191,401-Greater	138,301-Greater	85,101-Greater	8,000	

For SI: 1 square foot = 0.0929 m^2, 1 gallon per minute = 3.785 L/m, 1 pound per square inch = 6.895 kPa.

a. Types of construction are based on the *International Building Code*.

b. Measured at 20 psi residual pressure.