

2. **PLACE OF USE:** MUNICIPAL

Method of Determination: Digital Boundary of the municipal service area of the City of Lava Hot Springs

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

4.

<u>Well or Diversion ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge Size</u>
698758		15	Goulds		6CLC015

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
Flow Meter						

2. Measurements:

E. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

$$[(15 \text{ hp}) * (8.814) * (0.70)] \div [(147 \text{ ft lift}) + (100 \text{ PSI} * 2.308)] = 0.25 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Tony Hobson accompanied Skip Jones and I on 1-25-07.

GPS Tag # A0018243

GPS Reading Taken 20 FT (6 m) from well.

Northing 2662491

Easting 1270800

This is an old well that once supplied the town with water. It was taken off of the city water system and is now just for the park near the Church. They refer to this well as "The Church Well". The park was put in in the 1960s and the well as part of the city water system also irrigated the park.

Canda Dimick found a power bill that showed the HP of the pump at 30 HP.

A camera log was done in 2000 by Cushman Well Drilling. Cushman also set up the pump and did a pump test.

Need to get specs of the pump (Pumping Depth, Static Water Level) from Cushman to do a theoretical. Canda at City Hall will get us this info when she gets it.

Tony took a guess the number of sprinklers in the park was between 60 and 70.

Tony said the pump usually runs at 100 to 140 PSI.

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

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
MUNICIPAL	01/01 to 12/31	0.250 CFS	
<u>Totals:</u>		0.250 CFS	

2. Recommended Amendments

☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

I. AUTHENTICATION

Field Examiner's Name Trent Gailbraith Date January 25, 2007

Reviewer Nate Arave Date April 20, 2007

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

Scale: 1" = _____

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

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

_____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: _____

E. NARRATIVE/REMARKS/COMMENTS

actual is 30 Hp from power Bill
Tony Said 15? Hp usually runs between
100 and 140 pSI

Pump is for park only for irrigation
≈ 60 to 70 sprinklers (Tony's Guess)

GPS Tag A0018243

GPS Reading taken 20ft South of well

2662491 Wpt ID: 291329
1270800

Tony thinks well produces ≈ 250 gpm He is
not sure = 0.55 cfs

Took 4 photos

Well was drilled Cushman Well Drilling

30 Hp pump from power bill from Candace
Dimick

Camera log was done in August 2000
by Cushman who also set the pump and
did a pump test. Used to be municipal well
that supplied town with H₂O now municipal with
use only for park. Park put in, in the 1960's.

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

F. FLOW CALCULATIONS

_____ Additional Computation Sheets Attached

Measured Method:

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

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$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} =$ _____

2. Volume Calculations for Other Uses:

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
Totals:			_____	_____

2. Recommended Amendments

____ Change P.D. as reflected above ____ Add P.D. as reflected above ____ None
____ Change P.U. as reflected above ____ Add P.U. as reflected above ____ Other

I. AUTHENTICATION

Field Examiner's Name Trent Halbraath Date 1-25-07

Reviewer Nate Arave Date 3-5-07

SEAL

Comment Report

29-13297

1. tgalbraith 1/26/2007 Field Report Narrative

Comment: Tony Hobson accompanied Skip Jones and I on 1-25-07.

GPS Tag # A0018243

GPS Reading Taken 20 FT (6 m) from well.

Northing 2662491

Easting 1270800

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Tony took a guess the number of sprinklers in the park was between 60 and 70.

Tony said the pump usually runs at 100 to 140 PSI.

2. narave 3/2/2007 POD

Comment: Updated PLS

3. narave 3/2/2007 POU

Comment: Updated Shape

4. narave 3/2/2007 POU

Comment: Updated Shape

5. narave 3/2/2007 POU

Comment: Updated PLS

6. narave 3/5/2007 POU overlap

Comment: The overlapping POU's are 29 36, 29 2053, 29 4230, 29 4229, 29 7346, 29 37, and 29 11773

Type	WR #	Owner	Source	TRS	MENE	NWNE	SWNE	SBESE	NEWN	NNWN	SWNW	SEWN	NSWN	NWSW	SWSW	SESW	NESE	NWSE	SWSE	SESE	Total
Right	29 7947	THAYNE E VARGASON, KAREN VARGASON,	WASTE WATER	09S3AE21									X								0
Right	29 7947	TOPAZ IRRIGATION CO, DEMPSEY IRRIGATING CO.	PORTNEUF RIVER	09S3AE21									X	X	X			X	X		0
Right	29 36	C WATT BRANDON,	FISH CREEK	09S3AE21																	0
Right	29 1531	DEMPSEY IRRIGATING CO,	PORTNEUF RIVER	09S3AE21																	180
Right	29 2053	LAVA IRRIGATION CO INC,	PORTNEUF RIVER	09S3AE21																	256
Right	29 4467	STATE OF IDAHO,	GROUND WATER	09S3AE21	7	4	37	9	31	40	43	35	X					38	12	20	0
Right	29 7030	GLENM AUBREY,	GROUND WATER	09S3AE21																	0
Right	29 7657	CAMPBELL INC,	GROUND WATER	09S3AE21																	0
Right	29 7659	Alice M WHITEHEAD, WALLACE K WHITEHEAD,	GROUND WATER	09S3AE21									X								0
Right	29 11013	SCOTT J GUNNELL,	GROUND WATER	09S3AE21																	0
Right	29 12043	JOHN L BOCKER, JOAN BOCKER,	GROUND WATER	09S3AE21																	0
Right	29 12043	JOHN L BOCKER, JOAN BOCKER,	GROUND WATER	09S3AE21																	0
Right	29 12044	JOHN L BOCKER, JOAN BOCKER,	GROUND WATER	09S3AE21																	0
Right	29 12044	JOHN L BOCKER, JOAN BOCKER,	GROUND WATER	09S3AE21									X								0
Right	29 12126	FERN F BYINGTON,	HOT SPRING	09S3AE21																	0
Right	29 4233	EVELEE HILL RUSH, ROBERT E RUSH,	HOT SPRING	09S3AE21																	0
Right	29 4234	EVELEE HILL RUSH, ROBERT E RUSH,	HOT SPRING	09S3AE21									X	X							0
Rec	29 7227	LAVA MOBILE ESTATES & CAMPGROUND, DOROTHY M GUNNERSON, GARY H GUNNERSON,	GROUND WATER	09S3AE21																	0
Right	29 4230	CITY OF LAVA HOT SPRINGS,	SPRINGS	09S3AE21																	0
Right	29 10095	CYNTHIA IRICK, SHANE IRICK,	GROUND WATER	09S3AE21					X												0
Right	29 10095	CYNTHIA IRICK, SHANE IRICK,	GROUND WATER	09S3AE21						X											0
Right	29 11723	LEX B MORRISON, SHANNAL L MORRISON,	GROUND WATER	09S3AE21									X								0
Right	29 11763	LAVA MOBILE ESTATES & CAMPGROUND, GARY H GUNNERSON, DOROTHY M GUNNERSON,	GROUND WATER	09S3AE21																	0
Right	29 11144	SCOTT F GUNNELL, LINDA K GUNNELL,	GROUND WATER	09S3AE21																	0
Right	29 11144	SCOTT F GUNNELL, LINDA K GUNNELL,	GROUND WATER	09S3AE21																	0
Right	29 12189	NEOMA B WILLMORE, ELZA D WILLMORE,	GROUND WATER	09S3AE21																	0
Right	29 10323	EVELEE HILL RUSH,	GROUND WATER	09S3AE21																	0
Right	29 12887	EVELEE HILL RUSH,	FISH CREEK	09S3AE21																	0
Right	29 147	FISH CREEK IRRIGATING CO,	GROUND WATER	09S3AE21						X								4.3	13		17.3
Right	29 2369	STATE OF IDAHO,	SPRINGS	09S3AE21														X			0
Right	29 10213	STATE OF IDAHO,	SPRINGS	09S3AE21															X		0
Right	29 10046	EVELEE HILL RUSH, ROBERT E RUSH,	GROUND WATER	09S3AE21																	2.2
Right	29 10213	STATE OF IDAHO,	SPRINGS	09S3AE21																	0
Right	29 150	CAMPBELL INC,	GROUND WATER	09S3AE21																	0
Right	29 4212	SHANE IRICK, CYNTHIA IRICK,	GROUND WATER	09S3AE21																	75
Right	29 4000	LAVA IRRIGATION CO INC,	PORTNEUF RIVER	09S3AE21																	168.5
Right	29 474	CITY OF LAVA HOT SPRINGS,	PORTNEUF RIVER	09S3AE21																	168.5
Right	29 4229	CITY OF LAVA HOT SPRINGS,	GROUND WATER	09S3AE21																	0
Rec	29 10616	LAVA IRRIGATION CO INC,	PORTNEUF RIVER	09S3AE21																	168.5
Rec	29 4467	LAVA IRRIGATION CO INC,	PORTNEUF RIVER	09S3AE21																	168.5
Rec	29 11774	FISH CREEK IRRIGATING CO,	FISH CREEK	09S3AE21									X								0
Right	29 4462	FLOYD L WALDEN, JOAN B MARTIN,	SPRING	09S3AE21																	0
Right	29 4462	FLOYD L WALDEN, JOAN B MARTIN,	GROUND WATER	09S3AE21																	0
Right	29 7346	DEMPSEY IRRIGATING CO, TOPAZ IRRIGATION CO,	PORTNEUF RIVER	09S3AE21									X	X	X			X	X		0
Right	29 37	DEMPSEY IRRIGATING CO, TOPAZ IRRIGATION CO,	PORTNEUF RIVER	09S3AE21									X	X	X			X	X		0
Rec	29 11773	DEMPSEY IRRIGATING CO, TOPAZ IRRIGATION CO,	GROUND WATER	09S3AE21																	0
Right	29 2266	MITI W CAMPBELL,	GROUND WATER	09S3AE21																	0
Right	29 12266	MITI W CAMPBELL,	GROUND WATER	09S3AE21																	0
Right	29 13297	CITY OF LAVA HOT SPRINGS,	GROUND WATER	09S3AE21																	0