

Checklist for Claims of Beneficial Use Received at CSG Counter

Application # <u>G-12901</u>	WRD Reviewer <u>Coy M.</u>
Transfer #	
Date Received <u>6/14/2021</u>	
CWRE Name <u>Daniel Scalas</u>	

Priority Date: 5/4/1992

Fees Required:

YES NO A fee of \$200 must accompany this form for permits with priority dates of July 9, 1987, or later.

YES NO A fee of \$200 must accompany this form for any transfers including a water right with a priority date of July 9, 1987, or later.

Example – A transfer involves 5 rights and one of the rights has a priority date of July 9, 1987, or later, the fee is required.

Fill in App or Transfer Number

Map Review:

- Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b))
- Application & permit #; or transfer # (OAR 690-014-0100(1))
- Disclaimer (OAR 690-014-0170(5))
- North arrow (OAR 690-310-0050(2)(c))
- CWRE stamp and signature (OAR 690-014 & 310-0050)
- Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 & 310)
- Township, range, section, and tax lot numbers (OAR 690-310-0050(4))

Report Review:

- On form provided by the Department (OAR 690-014-0100(1))
- Application & permit #; or transfer # (OAR 690-014)
- Ownership information (OAR 690-014)
- Date of survey (OAR 690-014)
- Person interviewed (OAR 690-014)
- County (OAR 690-014)
- CWRE stamp and signature (OAR 690-014-0100)
- Signature(s) of all permittee of transfer holder (OAR 690-014-0100)

MONEY SLIP

DATE: _____ RECEIPT #: _____

RECEIVED FROM: _____ APPLICATION PERMIT TRANSFER

CASH CHECK # _____ OTHER (IDENTIFY) _____ TOTAL RECD. \$ _____

0083 TREASURY 4178 MISC CASH ACCT. \$ _____

0407 COPIES _____ \$ _____

OTHER (IDENTIFY) _____ \$ _____

0243 Instrum. Lease _____ 0244 Mun. Water Mgmt. Plan _____ 0245 Cons. Water _____

0083 TREASURY 4279 WRD OPERATING ACCT. \$ _____

MISCELLANEOUS

0407 COPY & TAPE FEES 4611 \$ _____

0410 RESEARCH FEES \$ _____

0408 MISC. REVENUE (IDENTIFY) \$ _____

TC182 DEPOSIT LAB. (IDENTIFY) \$ _____

0240 EXTENSION OF TIME \$ _____

WATER RIGHTS

0201 SURFACE WATER EXAM FEE \$ _____ RECORD FEE \$ _____

0203 GROUND WATER \$ _____ RECORD FEE \$ _____

0205 TRANSFER \$ _____

WELL CONSTRUCTION

0218 WELL DRILL CONSTRUCTION EXAM FEE \$ _____ RECORD FEE \$ _____

LANDOWNERS PERMIT OTHER (IDENTIFY) \$ _____ RECORD FEE \$ _____

0200 \$ _____ COBU \$ 3222.00

0087 TREASURY 0487 HYDROELECTRIC \$ _____

0233 POWER LICENSE FEE (FWWRD) \$ _____

0231 HYDRO LICENSE FEE (FWWRD) \$ _____

HYDRO APPLICATION \$ _____

SPECIAL INSTRUCTIONS:

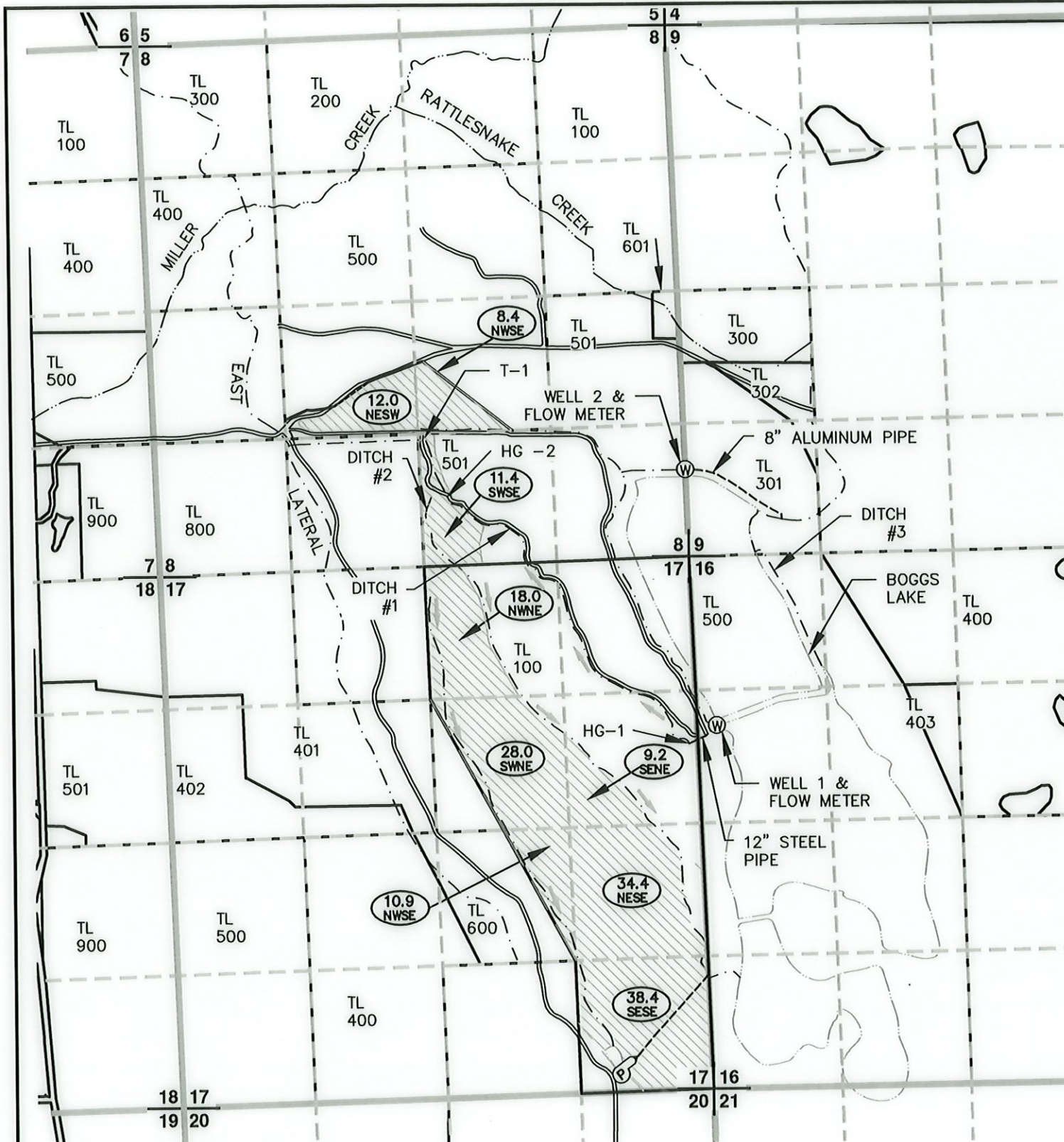
RETURN TO APPLICANT -- LETTER ATTACHED

Groundwater File Review:

Pump Test Required? YES NO Pump Test Submitted? YES NO*

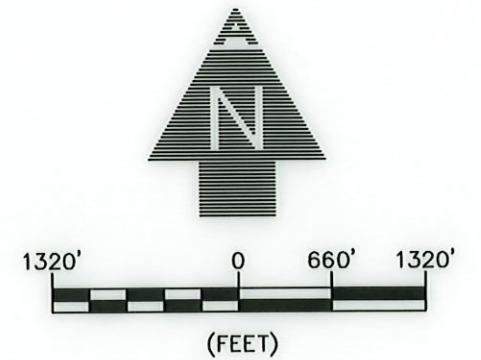
*If no, include pump test flyer w/acknowledgment letter

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LEGEND

- TL 500 TAX LOT NUMBER
- ⊙ WELL
- ⊕ PUMP
- TAX LOT BOUNDARY
- - - DITCH LINE
- ~ CREEK LINE
- SECTION LINES
- - - 1/4 1/4 LINES
- LAKE BOUNDARY
- GRAVEL/DIRT ROADWAY
- - - ABOVEGROUND PIPE
- ▨ IRRIGATED ACREAGE
- ⊙ 9.2 SENE 1/4 1/4
- 17 | 16 SECTION CORNER
20 | 21
- ← FLOW DIRECTION



WELL LOCATIONS

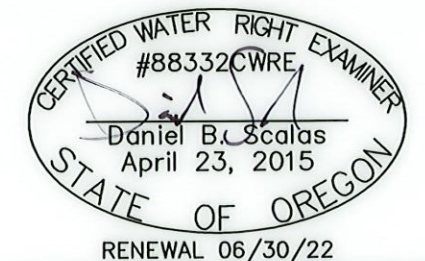
DATE OF PRIORITY: MAY 4, 1992.

WELL 1 - 1700 FEET SOUTH AND 200 FEET EAST FROM THE NORTHEAST CORNER OF SECTION 17, T40S, R14E, W.M., LOCATED IN THE SW 1/4 NW 1/4 OF SECTION 16

WELL 2 - 880 FEET NORTH AND 25 FEET EAST FROM THE SOUTHWEST CORNER OF SECTION 9, T40S, R14E, W.M., LOCATED IN THE SW 1/4 SW 1/4 OF SECTION 9

NOTES

1. THE PURPOSE OF THIS MAP IS TO IDENTIFY THE LOCATION OF THE WATER RIGHT ONLY, AND IS NOT INTENDED TO PROVIDE DIMENSIONS OR LOCATION OF PROPERTY LINES.
2. FOR TAX LOT INFORMATION, SEE TAX MAPS INCLUDED WITH THIS APPLICATION.
3. THIS MAP WAS PREPARED FROM FIELD MEASUREMENTS, NAIP 2005 AERIAL PHOTOGRAPH, KLAMATH COUNTY TAX MAP 40 14, 40 14 8, AND 40 14 17.



CLAIM OF BENEFICIAL USE AND FINAL PROOF MAP

FOR
MICHAEL & DIANE TYRHOLM
T40S, R14E, SEC. 8 & 17, W.M.
KLAMATH COUNTY, OREGON
PERMIT No. G-17423
APPLICATION No. G-12901

ADKINS ENGINEERING & SURVEYING
o / 541.884.4666
w / AdkinsEngineering.com

1435 ESPLANADE AVENUE, KLAMATH FALLS, OR 97601

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CLAIM OF BENEFICIAL USE for Groundwater Permits claiming more than 0.1 cfs



Oregon Water Resources Department
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266
(503) 986-0900
www.wrd.state.or.us

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**A fee of \$200 must accompany this form for permits
with priority dates of July 9, 1987, or later.**

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at:
http://www.oregon.gov/owrd/pages/wr/cwre_info.aspx

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

"Section 8" of this form is intended to aid in the completion of this form and should not be submitted.

A claim of beneficial use includes both this report and a map. If the map is being mailed separately from this form, please include a note with this form indicating such.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see
http://www.oregon.gov/owrd/pages/mgmt_reimbursement_authority.aspx

SECTION 1 GENERAL INFORMATION

1. File Information

APPLICATION # (G, R, S OR T) G-12901	PERMIT # (IF APPLICABLE) G-17423	PERMIT AMENDMENT # (IF APPLICABLE) T-11967
--	--	--

2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME Michael & Diane Tyrholm		PHONE NO. 541-882-2180	ADDITIONAL CONTACT NO.
ADDRESS 3703 Collier Lane			
CITY Klamath Falls	STATE OR	ZIP 97603	E-MAIL

If the current property owner is not the permit holder of record, it is recommended that an assignment be filed with the Department. ***Each permit holder of record must sign this form.***

3. Permit holder of record (this may, or may not, be the current property owner)

PERMIT HOLDER OF RECORD Same as above		
ADDRESS		
CITY	STATE	ZIP

ADDITIONAL PERMIT HOLDER OF RECORD N/A		
ADDRESS		
CITY	STATE	ZIP

4. Date of Site Inspection:

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	ASSOCIATION WITH THE PROJECT
Michael Tyrholm	10/18/2019	Owner

6. County:

7. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(4)):

OWNER OF RECORD N/A		
ADDRESS		
CITY	STATE	ZIP

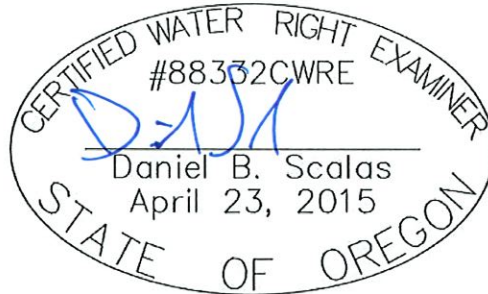
Add additional tables for owners of record as needed

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**SECTION 2
SIGNATURES**

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



RENEWAL 06/30/22

CWRE NAME Daniel B. Scalas		PHONE No. (541) 884-4666	ADDITIONAL CONTACT No.
ADDRESS 1435 Esplanade Ave.			
CITY Klamath Falls	STATE OR	ZIP 97601	E-MAIL dscalas@adkinsengineering.com

Permit or Transfer Holder's of Record Signature or Acknowledgement

***Each** permit or transfer holder of record must sign this form in the space provided below.*

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

SIGNATURE	PRINT OR TYPE NAME	TITLE	DATE
<i>Mike Tyrholm</i>	Michael Tyrholm	Owner	<i>2-15-2021</i>
<i>Diane Tyrholm</i>	Diane Tyrholm	Owner	<i>2-15-2021</i>

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SECTION 3
CLAIM DESCRIPTION

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1. Point of appropriation name or number:

POINT OF DIVERSION/APPROPRIATION (POD/POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
Well 1	KLAM10458	
Well 2	KLAM58839	L104231

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of diversion/appropriation source and, if from surface water, the tributary:

POD/POA NAME OR NUMBER	SOURCE	TRIBUTARY
Well 1	Miller Creek	Lost River
Well 2	Miller Creek	Lost River

3. Developed use(s), period of use, and rate for each use:

POD/POA NAME OR NUMBER	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	ACTUAL RATE OR VOLUME USED (CFS, GPM, OR AF)
Well 1	Supplemental Irrigation	Pasture	April 15 through October 15	2015: 128.7 AF
Well 2	Supplemental Irrigation	Pasture	April 15 through October 15	2015: 325.1 AF
Total Quantity of Water Used				2015: 453.8 AF

4. Provide a general narrative description of the distribution works. This description must trace the water system from each point of diversion or appropriation to the place of use:

Well 1

Water is appropriated from Well 1 by a submersible pump above ground through a 14" steel pipe in a westerly direction approximately 200' before reducing to a 12" steel pipe. The 12" mainline continues up a ridge above ground in a westerly direction approximately 130' before discharging into Ditch #1. From the discharge pipe, Ditch #1 conveys water in both northerly and southerly directions. At the end of the discharge pipe, Headgate (HG-1) is provided to close off flow to the south. Water diverted to the north is conveyed by an earthen ditch approximately 3,550' to HG-2. Water continues north approximately 900' to T-1. At the tee, water is conveyed both easterly and westerly. Water is conveyed ±700' to the east before terminating. This ditch flood irrigates lands in the NW 1/4 SE 1/4 of Section 8. Water is conveyed westerly approximately 850' before terminating. This ditch irrigates lands in the NE 1/4 SW 1/4 of Sec 8. Water can be diverted from HG-2 to Ditch #2. Water is diverted to lands west of Ditch #2 through various sizes of CMP, PVC, and steel pipes, ranging from 12" to 20". Ditch #2 is used to flood irrigate lands in SW 1/4 SE 1/4, NW 1/4 NE 1/4, SW 1/4 NE 1/4, SE 1/4 NE 1/4, NW 1/4 SE 1/4, NE 1/4 SE 1/4, and SE 1/4 SE 1/4. Excess surface water is conveyed by an earthen ditch to a sump where runoff is temporarily stored. The captured runoff is pumped by a 25 HP pump in an easterly direction through ±1,300' of 8" aluminum pipe to an earthen ditch. This ditch conveys water easterly for approximately 330' and empties back into Boggs Lake.

Well 2

From Well 2, water is pumped east through 8” aluminum pipe for 1,120’ before dumping into Ditch #3. Ditch #3 then conveys water southeast for 2,130’ before emptying into Boggs Lake where it can be pumped to irrigate the lands listed above for Well 1.

Reminder: The map associated with this claim must identify the location of the point(s) of diversion, Donation Land Claims (DLC), Government Lots (GLot), and Quarter-Quarters (QQ).

5. Variations:

Was the use developed differently from what was authorized by the permit, permit amendment final order, or extension final order? If yes, describe below. **NO**

(e.g. “The permit allowed three points of diversion. The water user only developed one of the points.” or “The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.”)

A sump has been constructed to capture surface runoff and temporarily store the runoff water. A pump was installed to pump the excess water back to Boggs Lake to reuse the water.

6. Claim Summary:

POD / POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
Well 1	2.0 cfs	5.88 CFS	N/A	Supplemental Irrigation	170.7	170.7
Well 2	2.0 cfs	2.49 CFS	N/A	Supplemental Irrigation	170.7	170.7

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**SECTION 4
SYSTEM DESCRIPTION**

Are there multiple POAs?

YES

If "YES" you will need to copy and complete Sections 4B through 4F for each POA.

POA Name or Number this section describes (only needed if there is more than one):

Well 1

A. Place of Use

1. Is the right for municipal use?

NO

TWP	RNG	MER	SEC	QQ	GLot	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
40S	14E	WM	8	NESW			Supplemental Irrigation		12.0
40S	14E	WM	8	NWSE			Supplemental Irrigation		8.4
40S	14E	WM	8	SWSE			Supplemental Irrigation		11.4
40S	14E	WM	17	NWNE			Supplemental Irrigation		18.0
40S	14E	WM	17	SWNE			Supplemental Irrigation		28.0
40S	14E	WM	17	SENE			Supplemental Irrigation		9.2
40S	14E	WM	17	NESE			Supplemental Irrigation		34.4
40S	14E	WM	17	NWSE			Supplemental Irrigation		10.9
40S	14E	WM	17	SESE			Supplemental Irrigation		38.4
Total Acres Irrigated									170.7

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (GLot), Quarter Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, GLot, and QQ.

B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

YES

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2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
UNKNOWN	UNKNOWN	UNKNOWN	Submersible	14"	14"
National Pump Company	J11	314020	Centrifugal	UNKNOWN	14"
Johnston Vertical Pump	UNKNOWN	JU-2122	Centrifugal	UNKNOWN	12"

3. Motor Information

MANUFACTURER	HORSEPOWER
U.S. Electrical	40 HP
General Electric	40 HP

4. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
40 HP	0	5'	40'	5.88
40 HP	0	5'	40'	5.88

5. Provide pump calculations:

See Attachment D for theoretical pump calculations.

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
N/A			

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

8. Mainline Information

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
14"	200'	Steel	Aboveground
12"	130'	Steel	Aboveground

9. Lateral or Handline Information

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
N/A			

10. Sprinkler Information

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
N/A					

Reminder: For sprinkler output determination use the reference information at the end of this document.

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11. Pivot Information

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				

12. Additional notes or comments related to the system:

N/A

C. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? **YES**

2. Describe the access port (type and location) or other means to measure the water level in the well:

1 1/2" access port on south side of well set in concrete

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
N/A						

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

KLAM 10458

5. Is the appropriation from a dug well (sump)? **NO**

D. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir) **NO**

E. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe? **YES**

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)
12"	Steel	140	4'	330'	1.2%	5.58

3. Provide calculations:

See Attachment D.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
N/A			

Attach measurement notes.

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F. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING’S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? **YES**

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	“N” FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
Ditch #1 – Earth	25’	8’	1.5’	0.03	±11’	±3,550’	±0.31%	±67.3
Ditch #2 – Earth	12’	6’	1.5’	0.03	±11’	±5,800’	±0.19%	±30.3

3. Provide calculations:

See Attachment D for gravity flow ditch calculations.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
N/A			

Attach measurement notes.

G. Reservoir

1. Does the claim involve a reservoir modified through a transfer? **NO**

Reminder: Complete this section if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

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B. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport and apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

YES

2. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Goulds	9 THC	MG1403	Centrifugal	UNKNOWN	8"
Pacific Pumping	10-40757	FS 61271	Turbine	UNKNOWN	8"

3. Motor Information

MANUFACTURER	HORSEPOWER
General Electric	125
U.S. Electrical Motors	50

4. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
125	0	95.8'	4'	7.88
50	0	95.8'	4'	3.53

5. Provide pump calculations:

See Attachment D for theoretical pump calculations.

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
N/A			

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

8. Mainline Information

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
8"	1,120'	Aluminum	Aboveground

9. Lateral or Handline Information

LATERAL OR HANDLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
N/A			

10. Sprinkler Information

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
N/A					

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
N/A				

12. Additional notes or comments related to the system:

N/A

C. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? **YES**

2. Describe the access port (type and location) or other means to measure the water level in the well:

Gauge on back of discharge south east side

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

KLAM 58839

5. Is the appropriation from a dug well (sump)? **NO**

D. Storage

1. Does the distribution system include in-system storage (e.g. storage tank, bulge in system / reservoir) **NO**

E. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe? **NO**

2. Complete the table:

PIPE SIZE	PIPE TYPE	"C" FACTOR	AMOUNT OF FALL	LENGTH OF PIPE	SLOPE	COMPUTED RATE OF WATER FLOW (IN CFS)
8"	Steel	140	22'	1,120'	2.0	2.49

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3. Provide calculations:

N/A

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
N/A			

Attach measurement notes.

F. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING’S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system? **YES**

2. Complete the table:

CANAL OR DITCH TYPE (MATERIAL)	TOP WIDTH OF CANAL OR DITCH	BOTTOM WIDTH OF CANAL OR DITCH	DEPTH	“N” FACTOR	AMOUNT OF FALL	LENGTH OF CANAL / DITCH	SLOPE	COMPUTED RATE (IN CFS)
Ditch #3 – Earth	45’	10’	3.5’	0.03	±3’	±2,130’	±0.14%	±294.0

3. Provide calculations:

See Attachment D for gravity flow ditch calculations.

4. If an actual measurement was taken, provide the following:

DATE OF MEASUREMENT	WHO MADE THE MEASUREMENT	MEASUREMENT METHOD	MEASURED QUANTITY OF WATER (IN CFS)
N/A			

Attach measurement notes.

G. Reservoir

1. Does the claim involve a reservoir modified through a transfer? **NO**

Reminder: Complete this section if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

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SECTION 5 CONDITIONS

All conditions contained in the permit, permit amendment, transfer final order, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits, transfer final orders, and any extension final orders contain any or all of the following dates: the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use was to be completed. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit, extension or transfer final order:

	DATE FROM PERMIT OR TRANSFER	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	6/15/2015		
BEGIN CONSTRUCTION (A)	6/15/2016	6/19/2014	Well 2 (KLAM 58839) began being dug.
COMPLETE CONSTRUCTION (B)	N/A	N/A	N/A
COMPLETE APPLICATION OF WATER (C)	10/1/2019	9/1/2019	All infrastructure installed and water user was ready, willing, and able to apply full beneficial use of water.

* MUST BE WITHIN PERIOD BETWEEN PERMIT, TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)?

NO

3. If for a transfer extension order, provide the following information:

VOLUME	PAGE	DATE EXTENDED TO
N/A		

4. Initial Water Level Measurements:

a. Was the water user required to submit an initial static water level measurement? YES

b. What month was the initial measurement to be taken in?

Not stated in permit

c. Was the measurement submitted to the Department? YES

d. If the initial measurement was not submitted, provide that measurement now, if available:

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT

5. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? YES

b. Provide the month, or months, the static water level measurement(s) were to be made:

March and October

c. Were the static water level measurements taken in the month(s) required? YES

d. If "YES", were those measurements submitted to the Department? YES

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e. If the annual measurements were not submitted, provide the measurements now:

DATE OF MEASUREMENT	MEASUREMENT MADE BY	METHOD	MEASUREMENT

6. Pump Test (Required for most ground water permits prior to issuance of a certificate)

- a. Did the permit require the submittal of a pump test? YES
- b. Has the pump test been previously submitted to the Department? NO
- c. Is the pump test attached to this claim? NO
- d. Has the pump test been approved by the Department? NO
- e. Has a pump test exemption been approved by the Department? NO

**** Claims will not be reviewed until a pump test or exemption has been approved by the Department**

7. Measurement Conditions:

- a. Does the permit, permit amendment, transfer final order, or any extension final order require the installation of a meter or approved measuring device? YES

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

- b. Has a meter been installed? YES
- c. Meter Information

POD/POA NAME OR #	MANUFACTURER	SERIAL #	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well 1	McCrometer	19-03811-08	Working	0.0 AF	9/1/2019
Well 2	McCrometer	15-10125-08	Working	210.097 AF	2015

- d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? YES
- e. If "YES", provide a copy of the letter approving the device, if available. If the letter is not available provide the name and title of the Water Resources Department employee approving the measuring device, and the approximate date of the approval:

NAME	TITLE	APPROXIMATE DATE

f. Measurement Device Description

DEVICE DESCRIPTION	CONDITION (WORKING OR NOT)	DATE INSTALLED

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8. Recording and reporting conditions

- a. Is the water user required to report the water use to the Department? **YES**
- b. Have the reports been submitted? **YES**

METHOD OF SUBMITTING REPORT (PAPER OR ELECTRONIC)	WATER USER REPORTING ID

If the reports have not been submitted, attach a copy of the reports if available.

9. Fish Screening

- a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? **NO**

10. By-pass Devices

- a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? **NO**

11. Other conditions required by permit, permit amendment final order, extension final order, or transfer final order:

- a. Were there special well construction standards? **NO**
- b. Was submittal of a ground water monitoring plan required? **NO**
- c. Was the water user required to restore the riparian area if it was disturbed? **NO**
- d. Was a fishway required? **NO**
- e. Was submittal of a letter from an engineer required prior to storage of water? **NO**
- f. Was submittal of a water management and conservation plan required? **NO**
- g. Other conditions? **NO**

If "YES" to any of the above, identify the condition and describe the water user's actions to comply with the condition(s):

**SECTION 6
ATTACHMENTS**

Provide a list of any additional documents you are attaching to this report:

ATTACHMENT NAME	DESCRIPTION
Attachment A	Copy of Permit G-17423
Attachment B	Final Proof Map (paper copy)
Attachment C	Signed Mylar Map
Attachment D	Pump Capacity, Gravity Flow Ditch, and Gravity Flow Pipe Calculations
Attachment E	Copy of Well Logs KLAM 10458 & KLAM 58839
Attachment F	Copy of Tax Maps 40-14, 40-14-08, & 40-14-17

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SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

Map was prepared using the original drawing previously submitted, Klamath County tax map, Google earth aerial image copyright 2016, and field observations.

Map Checklist

Please be sure that the map you submit includes ALL the items listed below.

(Reminder: Incomplete maps and/or claims may be returned.)

- Map on polyester film
- Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
- Township, Range, Section, Donation Land Claims, and Government Lots
- If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- N/A Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
- Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
- Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- Point(s) of diversion or appropriation (illustrated and coordinates)
- Tax lot boundaries and numbers
- N/A Source illustrated if surface water
- Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- Application and permit number or transfer number
- North arrow
- Legend
- CWRE stamp and signature
- North arrow
- Legend
- CWRE stamp and signature

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ATTACHMENT A
Copy of Permit G-17423

STATE OF OREGON
COUNTY OF KLAMATH

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PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO
MICHAEL AND DIANE TYRHOLM
3703 COLLIER LANE
KLAMATH FALLS, OR 97603

This superseding permit is issued to describe an amendment for an additional point of appropriation proposed under Permit Amendment Application T-11967 and approved by Special Order Vol. 96, Page 200-202, entered JUN 15 2015, and to describe an extension of time for complete application of water approved November 7, 2014, an assignment to a new permittee approved August 8, 2006 and a correction in the measured distance location of the original point of appropriation. This permit supersedes Permit G-13743.

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-12901

SOURCE OF WATER: WELLS, IN THE MILLER CREEK BASIN, WITHIN THE KLAMATH BASIN

PURPOSE OR USE: SUPPLEMENTAL IRRIGATION OF 170.7 ACRES

MAXIMUM RATE: 2.0 CUBIC FEET PER SECOND

PERIOD OF USE: APRIL 15 THROUGH OCTOBER 15

DATE OF PRIORITY: MAY 4, 1992

POINT OF DIVERSION LOCATION:

Twp	Rng	Mer	Sec	Q-Q	Measured Distances
40 S	14 E	WM	16	SW NW	WELL 1 - 1700 FEET SOUTH AND 200 FEET EAST FROM THE NE CORNER OF SECTION 17
40 S	14 E	WM	9	SW SW	WELL 2 - 880 FEET NORTH AND 25 FEET EAST FROM THE SW CORNER OF SECTION 9

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second (or its equivalent) and 2 ½ acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

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SUPPLEMENTAL IRRIGATION					
Twp	Rng	Mer	Sec	Q-Q	Acres
40 S	14 E	WM	8	NE SW	12.0
40 S	14 E	WM	8	NW SE	8.4
40 S	14 E	WM	8	SW SE	11.4
40 S	14 E	WM	17	NW NE	18.0
40 S	14 E	WM	17	SW NE	28.0
40 S	14 E	WM	17	SE NE	9.2
40 S	14 E	WM	17	NE SE	34.4
40 S	14 E	WM	17	NW SE	10.9
40 S	14 E	WM	17	SE SE	38.4

Permit Amendment T-11967 Conditions:

1. The combined quantity of water diverted at the new point of appropriation, together with that diverted at the old point of appropriation, shall not exceed the quantity of water lawfully available at the original point of appropriation.
2. Water use measurement conditions:
 - a. Before water use may begin under this order, the water user shall install a totalizing flow meter, or, with prior approval of the Director, another suitable measuring device at each point of appropriation (new and existing) or at each new point of appropriation.
 - b. The water user shall maintain the meters or measuring devices in good working order.
 - c. The water user shall allow the Watermaster access to the meters or measuring devices; provided however, where the meters or measuring devices are located within a private structure, the Watermaster shall request access upon reasonable notice.
3. If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the wells shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference. The Department encourages junior and senior appropriators to jointly develop plans to mitigate interferences.
4. If the number, location, source, or construction of any well deviates from that proposed in the permit application or required by permit conditions, this permit may be subject to cancellation, unless the Department authorizes the change in writing.
5. Prior to using water from any well listed on this permit, the permittee shall ensure that the well has been assigned an OWRD Well Identification Number (Well ID tag), which shall be permanently attached to the well. The Well ID shall be used as a reference in any correspondence regarding the well, including any reports of water use, water level, or pump test data.
6. Dedicated Measuring Tube: Wells with pumps shall be equipped with a minimum 3/4-inch diameter, unobstructed, dedicated measuring tube pursuant to figure 200-5 in OAR 690-200. If a pump has been installed prior to the issuance of this permit, and if static water levels and pumping levels can be measured using an electrical tape, then the installation of the measuring tube can be delayed until such time that water levels cannot be measured or the pump is repaired or replaced.

7. The proposed additional point of appropriation well shall obtain groundwater solely from the predominantly volcanic-basalt unit beneath the predominantly basin-fill unit by having continuous casing and continuous seal from land surface completely through the predominantly basin-fill unit and into the predominantly volcanic-basalt unit below the predominantly basin-fill unit.
8. Water shall be acquired from the same aquifer as the original point of appropriation.

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Extension of Time Conditions:

Checkpoint Condition

The permit holder must submit a completed Progress Report Form to the Department by **October 1, 2018. A form is enclosed with this Final Order.**

- a) At each checkpoint, the permit holder shall submit and the Department shall review evidence of the permit holder's diligence towards completion of the project and compliance with terms and conditions of the permit and extension. If, after this review, the Department determines the permit holder has not been diligent in developing and perfecting the water use permit, or complied with all terms and conditions, the Department shall modify or further condition the permit or extension to ensure future compliance, or begin cancellation proceedings on the undeveloped portion of the permit pursuant to ORS 537.260 or 537.410, or require submission of a final proof survey pursuant to ORS 537.250;
- b) The Department shall provide notice of receipt of progress reports in its weekly notice and shall allow a 30 day comment period for each report. The Department shall provide notice of its determination to anyone who submitted comments.

Original Permit Conditions:

Measurement, recording and reporting conditions:

- A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order, shall keep a complete record of the amount of water used each month and shall submit a report which includes the recorded water use measurements to the Department annually or more frequently as may be required by the Director. Further, the Director may require the permittee to report general water use information, including the place and nature of use of water under the permit.
- B. The permittee shall allow the watermaster access to the meter or measuring device; provided however, where the meter or measuring device is located within a private structure, the watermaster shall request access upon reasonable notice.

The use of water under this permit may expire or be extended five years from issuance of the permit. A water right certificate shall be issued at the end of the five year period if the Director finds:

- A. River stage or Bonanza Big Spring flows are not significantly diminished by use of wells as determined by the Oregon Water Resources Department, in consultation with the Bureau of Reclamation and Oregon Department of Fish and Wildlife, using quantifiable groundwater and hydrologic science that stands up to peer review;
- B. Within two years of permit issuance for primary use, the permittee/appropriator has submitted a plan to the Commission indicating potential economical sources for an alternative long term water supply;
- C. Periodic water level reports have been submitted; and
- D. Excessively declining ground water levels have not occurred due to well use as determined by the Oregon Water Resource Department, in consultation with the Bureau of Reclamation and Oregon Department of Fish and Wildlife, using quantifiable groundwater and hydrologic science that stands up to peer review.

A static water level measurement shall be made and submitted before any use of water may commence from the well.

If substantial interference with a senior water right occurs due to withdrawal of water from any well listed on this permit, then use of water from the well(s) shall be discontinued or reduced and/or the schedule of withdrawal shall be regulated until or unless the Department approves or implements an alternative administrative action to mitigate the interference.

This right is limited to any deficiency in the available supply of any prior right existing for the same land.

The permittee/appropriator shall obtain a static water-level measurement for each well during March and October of each year and report the measurements to the Department. The measurement shall be made by a certified water rights examiner, registered geologist, licensed land surveyor, registered professional engineer, or by the permittee/appropriator under the direction of the local water master. Water levels shall be reported as depth-to-water below ground in feet and inches or to one-hundredth of a foot and shall be accompanied by supporting calculations. The permittee/appropriator shall report the static water level(s) in the well(s) to the Groundwater/Hydrology Section of the Water Resources Department by April 15 and November 15, respectively, of each year.

STANDARD CONDITIONS

The wells shall be constructed in accordance with the General Standards for the Construction and Maintenance of Water Wells in Oregon. The works shall be equipped with a usable access port, and may also include an air line and pressure gauge adequate to determine water level elevation in the well at all times.

The use shall conform to such reasonable rotation system as may be ordered by the proper state officer.

Prior to receiving a certificate of water right, the permit holder shall submit the results of a pump test meeting the department's standards, to the Water Resources Department. The Director may require water level or pump test results every ten years thereafter.

Failure to comply with any of the provisions of this permit may result in action including, but not limited to, restrictions on the use, civil penalties, or cancellation of the permit.

This permit is for the beneficial use of water without waste. The water user is advised that new regulations may require the use of best practical technologies or conservation practices to achieve this end.

By law, the land use associated with this water use must be in compliance with statewide land-use goals and any local acknowledged land-use plan.

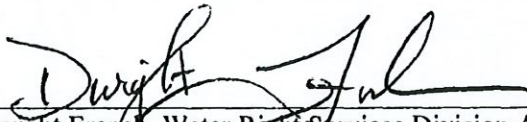
The use of water shall be limited when it interferes with any prior surface or ground water rights.

The Director finds that the proposed use(s) of water described by this permit, as conditioned, will not impair or be detrimental to the public interest.

Actual construction of the well shall begin within one year from permit issuance. Complete application of water to the use shall be made on or before October 1, 2019. Within one year after complete application of water to the proposed use, the permittee shall submit a claim of beneficial use, which includes a map and report, prepared by a Certified Water Rights Examiner (CWRE).

Issued June 15, 2015

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Dwight French, Water Right Services Division Administrator, for
Thomas M. Byler, Director
Oregon Water Resources Department

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ATTACHMENT B
Final Proof Map (paper copy)

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ATTACHMENT C
Signed Mylar Map

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ATTACHMENT D
Pump Capacity, Gravity Flow Ditch, and
Gravity Flow Pipe Calculations

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Pipe Capacity Calculator

for pipes flowing full, using the Hazen-Williams Formula

Data Entry (fill in underlined blanks)

Interior Diameter = 12 inches, or 1 feet
Roughness Coefficient (C) = 140
Fall = 4 feet per 330 feet of distance
Grade = 0.01212121, or 1.2%

Results calculated

Area of cross-section = 0.7854 square feet
Wetted Perimeter = 3.14159 feet
Hydraulic Radius = 0.25
Velocity = 7.10985 feet per second

Pipe Capacity = 5.58 cubic feet per second

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Pipe Capacity Calculator

for pipes flowing full, using the Hazen-Williams Formula

Data Entry (fill in underlined blanks)

Interior Diameter = 8 inches, or 0.666667 feet
Roughness Coefficient (C) = 140
Fall = 22 feet per 1120 feet of distance
Grade = 0.01964286 , or 2.0%

Results calculated

Area of cross-section = 0.34907 square feet
Wetted Perimeter = 2.0944 feet
Hydraulic Radius = 0.16667
Velocity = 7.14725 feet per second

Pipe Capacity = 2.49 cubic feet per second

Pump Capacity Calculation Sheet

using Department designed formula:

$$(\text{hp})(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 125
Efficiency = 6.61
Lift = 104.8
PSI = 0

Results Calculated

(hp)(efficiency) = 826.25
Head based on psi = 0.0
Total dynamic head = 104.8
(head + lift)

Pump Capacity = 7.88 feet per second

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Pump Capacity Calculation Sheet

using Department designed formula:

$(\text{hp})(\text{efficiency}) / (\text{lift} + \text{psi head}) = \text{capacity in cfs}$

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 50
Efficiency = 7.04
Lift = 99.8
PSI = 0

Results Calculated

(hp)(efficiency) = 352
Head based on psi = 0.0
Total dynamic head = 99.8
(head + lift)

Pump Capacity = 3.53 feet per second

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Ditch Capacity Calculator

using Manning's Formula

Data Entry (fill in underlined blanks)

Top Width = 45 feet
Bottom Width = 10 feet
Depth = 3.5 feet
Fall = 3 feet per 2130 feet of distance
Grade = 0.00140845 , or 0.14%
n Factor = 0.03

Results calculated

Area of cross-section = 96.25 square feet
Wetted Perimeter = 45.6931 feet
Hydraulic Radius = 2.10644
Velocity = 3.055 feet per second

Calculated Ditch Capacity = 294.0 cubic feet per second

Ditch Capacity Calculator

using Manning's Formula

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Data Entry (fill in underlined blanks)

Top Width = 25 feet
Bottom Width = 8 feet
Depth = 1.5 feet
Fall = 11 feet per 3550 feet of distance
Grade = 0.00309859 , or 0.31%
n Factor = 0.03

Results calculated

Area of cross-section = 24.75 square feet
Wetted Perimeter = 25.2627 feet
Hydraulic Radius = 0.97971
Velocity = 2.720 feet per second

Calculated Ditch Capacity = 67.3 cubic feet per second

Ditch Capacity Calculator

using Manning's Formula

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Data Entry (fill in underlined blanks)

Top Width = 12 feet
Bottom Width = 6 feet
Depth = 1.5 feet
Fall = 11 feet per 5800 feet of distance
Grade = 0.00189655 , or 0.19%
n Factor = 0.03

Results calculated

Area of cross-section = 13.5 square feet
Wetted Perimeter = 12.7082 feet
Hydraulic Radius = 1.06231
Velocity = 2.246 feet per second

Calculated Ditch Capacity = 30.3 cubic feet per second

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ATTACHMENT E
Copy of Well Logs KLAM 10458 & KLAM 58839

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765 & OAR 690-205-0210)

KLAM 58839
7/25/2014

WELL I.D. LABEL# L 104231
START CARD # 1023412
ORIGINAL LOG #

(1) LAND OWNER
Owner Well I.D. _____
First Name MIKE Last Name TYRHOLM
Company _____
Address 3510 COLLIER LANE
City KLAMATH FALLS State OR Zip 97603

(2) TYPE OF WORK New Well Deepening Conversion
 Alteration (complete 2a & 10) Abandonment (complete 5a)

(2a) PRE-ALTERATION
Dia + From To Gauge Stl Plstc Wld Thrd
Casing: _____
Material From To Amt sacks/lbs
Seal: _____

(3) DRILL METHOD
 Rotary Air Rotary Mud Cable Auger Cable Mud
 Reverse Rotary Other _____

(4) PROPOSED USE Domestic Irrigation Community
 Industrial/ Commercial Livestock Dewatering
 Thermal Injection Other _____

(5) BORE HOLE CONSTRUCTION Special Standard (Attach copy)
Depth of Completed Well 584.00 ft.
BORE HOLE SEAL
Dia From To Material From To Amt sacks/lbs

How was seal placed: Method A B C D E
 Other POURED & HYDRATED
Backfill placed from _____ ft. to _____ ft. Material _____
Filter pack from _____ ft. to _____ ft. Material _____ Size _____
Explosives used: Yes Type _____ Amount _____

(5a) ABANDONMENT USING UNHYDRATED BENTONITE
Proposed Amount _____ Actual Amount _____

(6) CASING/LINER
Casing Liner Dia + From To Gauge Stl Plstc Wld Thrd
10 1 130 .250
Shoe Inside Outside Other Location of shoe(s) 130
Temp casing Yes Dia _____ From _____ To _____

(7) PERFORATIONS/SCREENS
Perforations Method _____
Screens Type _____ Material _____
Perf/ Casing/ Screen Scm/slot Slot # of Telc/
Screen Liner Dia From To width length slots pipe size

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Bailer Air Flowing Artesian
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr)
800 _____ 308 1
Temperature 74 °F Lab analysis Yes By _____
Water quality concerns? Yes (describe below) TDS amount
From To Description Amount Units

(9) LOCATION OF WELL (legal description)
County KLAMATH Twp 40.00 S N/S Range 14.00 E E/W WM
Sec 9 SW 1/4 of the SW 1/4 Tax Lot 301
Tax Map Number _____ Lot _____
Lat _____ ' _____ " or _____ DMS or DD
Long _____ ' _____ " or _____ DMS or DD
 Street address of well Nearest address
NEAR 12685 E. LANGELL VALLEY RD
LORRELLA, OR

(10) STATIC WATER LEVEL
Date SWL(psi) + SWL(ft)
Existing Well / Pre-Alteration _____
Completed Well 7/21/2014 _____ 100
Flowing Artesian? Dry Hole?
WATER BEARING ZONES Depth water was first found 83.00
SWL Date From To Est Flow SWL(psi) + SWL(ft)

(11) WELL LOG Ground Elevation 4150.00
Material From To
Top Soil 0 1
Black Rock 1 10
Black Lava Rock & Brown Clay 10 72
Brown Lava Rock & Clay 72 83
Black & Brown Lava Rock & Brown Clay 83 122
Black Lava Rock & Brown Clay 122 218
Brown Lava Rock 218 388
Black Rock 388 441
Brown Lava Rock 441 450
Gray Rock 450 453
Red Lava Rock 453 499
Black Lava Rock 499 506
Brown Lava Rock 506 529
Black Rock 529 584
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Date Started 6/19/2014 Complete 7/21/2014

(unbonded) Water Well Constructor Certification
I certify that the work I performed on the construction, deepening, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
License Number _____ Date _____
Signed _____

(bonded) Water Well Constructor Certification
I accept responsibility for the construction, deepening, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
License Number 777 Date 7/25/2014
Signed STEPHEN R HUGHES (E-filed)
Contact Info (optional) 541-882-3504

19

KLAM 70458

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40S/14E/1666

STATE OF OREGON WATER WELL REPORT

MAY 21 1992

(START CARD) #36244

WATER RESOURCES DEPT. SALE

(1) OWNER: Well Number 4 Name Dick Smith Address 10166 E. Langell Vly Rd. City Bonanza State OR. Zip 97623

(2) TYPE OF WORK: [X] New Well [] Deepen [] Recondition [] Abandon

(3) DRILL METHOD: [X] Rotary Air [] Rotary Mud [] Cable [] Other

(4) PROPOSED USE: [] Domestic [] Community [] Industrial [X] Irrigation [] Thermal [] Injection [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 559 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: HOLE Diameter, From, To, SEAL Material, From, To, Amount sacks or pounds. Includes entries for 16", 12", and 8" diameters with cement seals.

How was seal placed: Method [] A [] B [X] C [] D [] E Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Includes entries for 12" casing and liner.

Final location of shoe(s)

(7) PERFORATIONS/SCREENS: [] Perforations Method [] Screens Type Material

Table for perforations/screens with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner.

(8) WELL TESTS: Minimum testing time is 1 hour [] Pump [] Bailor [X] Air [] Flowing Artesian

Table for well tests with columns: Yield gal/min, Drawdown, Drill stem at, Time. Includes entry for 400 GPM yield at 250' depth.

Temperature of Water 60 Depth Artesian Flow Found Was a water analysis done? [] Yes By whom Did any strata contain water not suitable for intended use? [] Too little [] Salty [] Muddy [] Odor [] Colored [] Other Depth of strata:

(9) LOCATION OF WELL by legal description: County Klamath Latitude Longitude Township 40S N or S. Range 14E E or W. WM. Section 16 NW 1/4 NW 1/4 Tax Lot 500 Lot Block Subdivision Street Address of Well (or nearest address) E. Langell Vly Rd. Bonanza, OR.

(10) STATIC WATER LEVEL: 98 ft. below land surface. Date 5/2/92 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 272'

Table for water bearing zones with columns: From, To, Estimated Flow Rate, SWL. Includes entry for 272' to 557' depth with 400 GPM flow rate.

(12) WELL LOG: Ground elevation

Table for well log with columns: Material, From, To, SWL. Includes entries for Soil, Brown Claystone, and Rock Brown (Hard).

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Date started 4/13/92 Completed 5/2/92 (unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

Signed [Signature] WWC Number 1452 Date 5/20/92

(bonded) Water Well Constructor Certification: I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above.

All work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief.

Signed [Signature] WWC Number 693 Date 5/20/92

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JUN 14 2021

OWRD

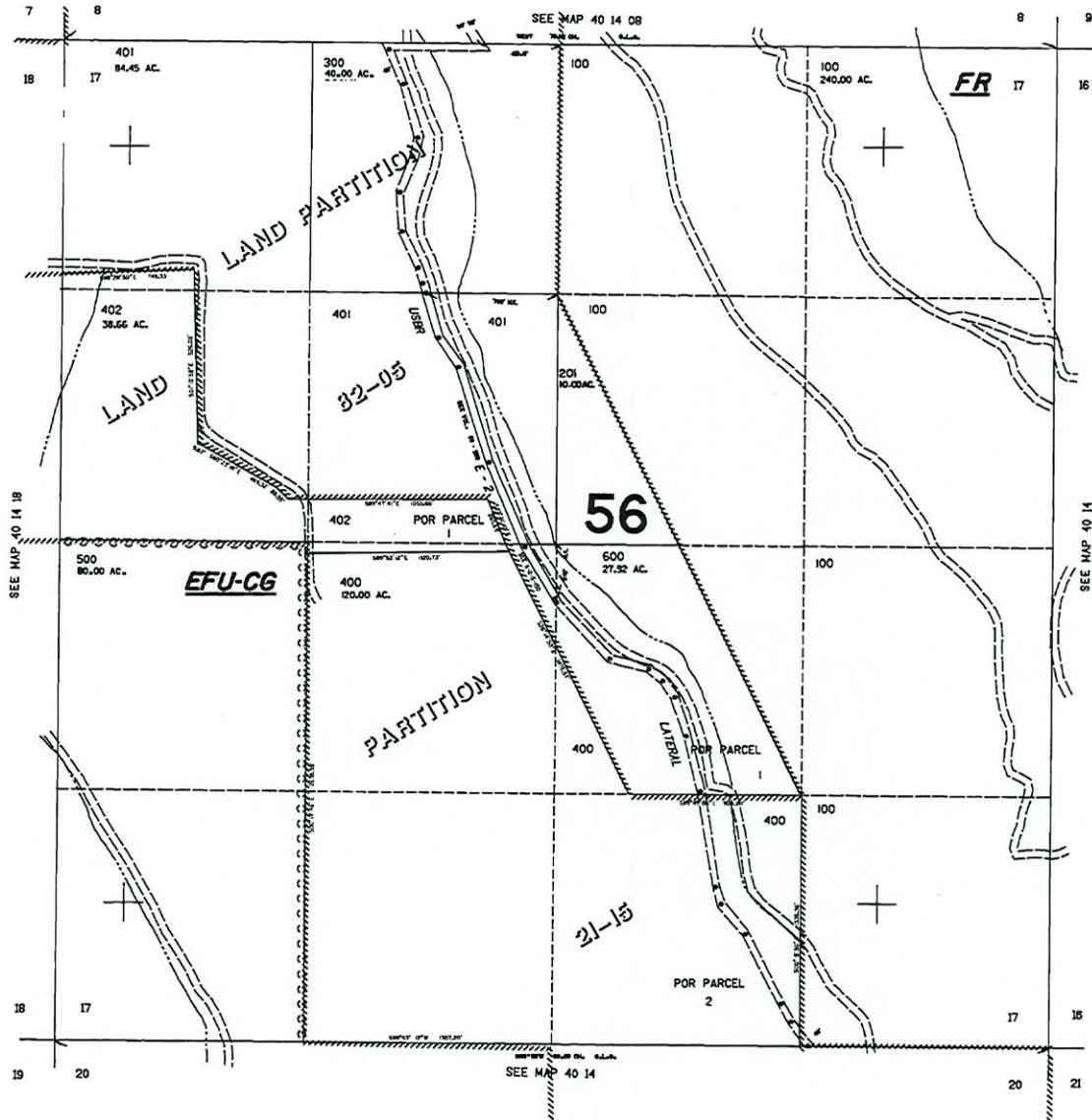
ATTACHMENT F
Copy of Tax Maps 40-14, 40-14-08, & 40-14-17

REVISED 04-13-2016
THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY

SECTION 17 T.40S. R.14E. W.M.
KLAMATH COUNTY

40 14 17

1"=400'



CANCELLED NO.
200
501
700

157,000 RECEIVED
JUN 14 2021
OWRD

40 14 17

7,000

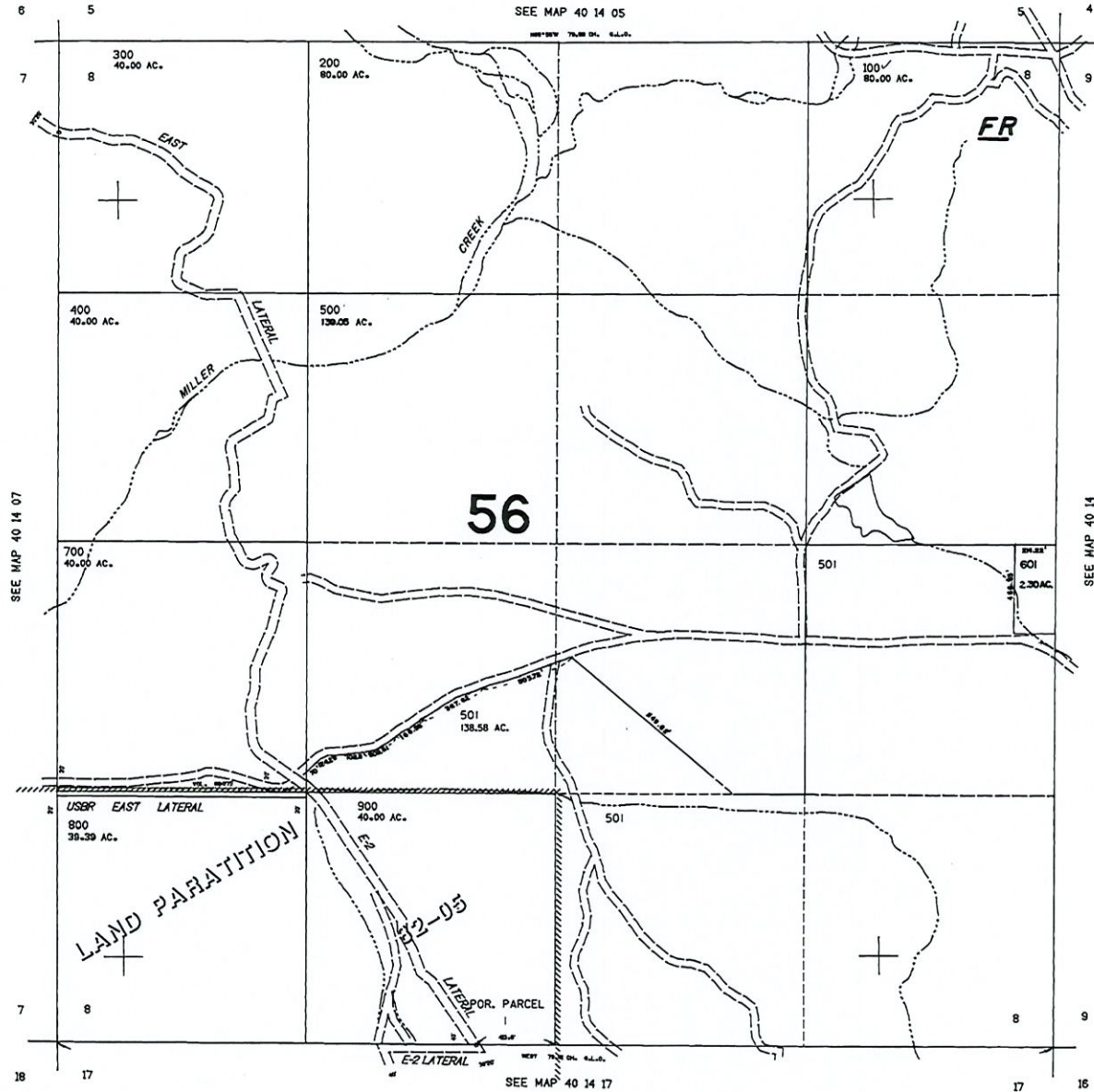
REVISED 4-23-07

THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY

SECTION 08 T.40S. R.14E. W.M.
KLAMATH COUNTY

1"=400'

40 14 08



CANCELLED NO.
900MI
600
1000

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JUN 14 2021
OWRD

182,000

7,000

40 14 08

REVISED 04-15-2016
THIS MAP WAS PREPARED FOR
ASSESSMENT PURPOSE ONLY

T.40S. R.14E. W.M.
KLAMATH COUNTY

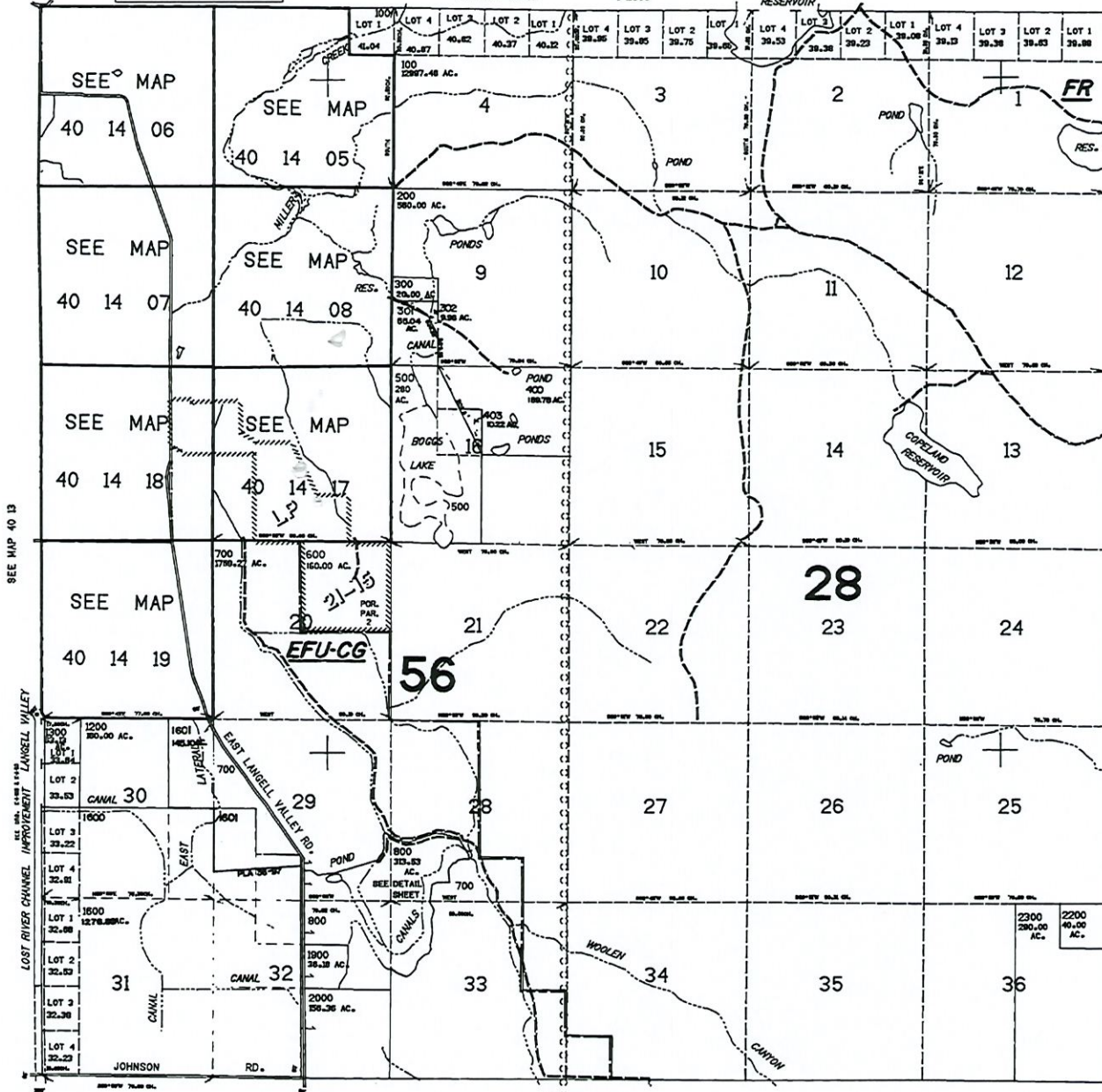
SEE MAP 39 13

1"-2000"

BIG DOGEE
RESERVOIR

4014
& INDEX

CANCELLED NO.
401
402



SEE MAP 40 13

SEE MAP 40 14

150,000

RECEIVED
JUN 14 2021
OWRD

40 14
& INDEX

SEE MAP 41 14