

MEMO – 2014-2015 Certificate Project Proof to Satisfaction (Aug 7, 2014)

Application # <u>5-83542</u>	Permit # <u>5-53501</u>	Transfer #
WRD Reviewer <u>Corey</u>	Date <u>9-21-15</u>	
WRD Peer Reviewer <u>J. Joyce</u>	Date <u>9-23-15</u>	

Research

- Organize file in chronological order
- Pull ~~CBU Report & Map(s)~~, ~~Application Map~~, ~~relevant Permit~~, ~~Certificate~~, or ~~Transfer Order~~, most recent ~~Assignments~~, ~~Extension Orders~~, ~~SWL Measurements~~, Fish Screen Certification Documents, Water Use Reports & ~~Pump Tests~~
- Search for Water Right Location using Interactive Mapper. Identify Tax Lots & check for Area of Interest (AOI)
- Water Organization identified using AOI? No ___ Yes
If "Yes" cc: _____ & Add to Mailing List
- Print Tax Lot Map from ormap.net for the original Place of Use, and confirm Current Ownership & Address with County Assessor verified by phone w/ Assessor 9-21-15
- If there is a new owner, Add to Mailing List, including the owner(s) name & tax lot number
- Print Platcard & check for Place of Use Conflict? No ___ Yes
If "Yes", provide copy of certificate & relevant map
- Print BLM Cadastral Survey
- Does Claim Map identify correct DLC, ~~Gov't Lots~~, ~~OO's~~? No ___ Yes
If "No", either WRD amend map OR _____ prepare Order of Certification
Show GL2

Reviewing Claim

Have conditions on relevant permit, certificate, or transfer order been complied with? Yes, No, OR N/A

- NA Fish Conditions
- NO Meter/measuring device Flow meter installed at Res 1+3 Not installed at Res. 4.
- NA Water Use Reporting
- NA Pump Test (post December 19, 1988)
- NA Other Conditions _____
- NA SWL
- yes C-Date COBU = 10-1-02

yes Run Capacity Calculator and Print Findings (for pump, sprinklers, pipes, ditches, as appropriate)

NOTES:

A = 6-8-99
C = 10-1-02

0.956 CFS
POD1/RES1 = 0.06 CFS POD3/RES3 = 0.06 CFS
POD2/RES2 = 1.631 CFS

Determination

___ I've determined that the permit/transfer was fully developed as authorized and that a **FINAL** Certificate should be issued.

___ I've determined that the permit/transfer was not fully developed as authorized and that a **PROPOSED** Certificate should be issued. A proposed Certificate should be issued for the following reason(s):

u I've determined that beneficial use was NOT made within the terms and conditions and that a **Proposed Order of Certification** (denial) should be issued. A proposed Order of Certification should be issued for the following reason(s): *User did not comply with meter condition - flow meter only installed at Reservoirs 1 and 3 -*

Processing

u Stamp PROPOSED or Assign CERT# _____ or ORDER OF CERTIFICATION (circle one)

u Draft Certificates or Proposed Order of Certifications are available in the Application directory.

u Prepare Mailing List. Include Applicant(s); Receiving Landowner(s); Current Owner(s); Water Organizations; CWRE. Indicate records to be marked.

___ Record marking: App _____ Permit _____ Cert _____
App _____ Permit _____ Cert _____
App _____ Permit _____ Cert _____
App _____ Permit _____ Cert _____

NOTES:

Search

Identify Non-Water Right Features

Tax Lots

Identify Tax Lots [OR Map](#)

Off

On

County: Coos

Taxlot: 30S14W07TL0020000

Owner1: CARY, LYNN & RENA S.

Owner2:

Owner Address: 87401 LOIS LN BANDON OR 97411

Site Address: 87401 LOIS LN BANDON 97411

Acres: 0

TRSQQ: WM30.00S14.00W7XXXX

Effective Date: January 1, 2014

Note: Tax lot information provided here is for general inquiry purposes. It may not be up to date or may not be an official record. Please contact the respective county tax assessor's office for more current and specific information.

It is recommended to zoom to a detailed extent before inquiry.

Tools

Layers

Bookmarks



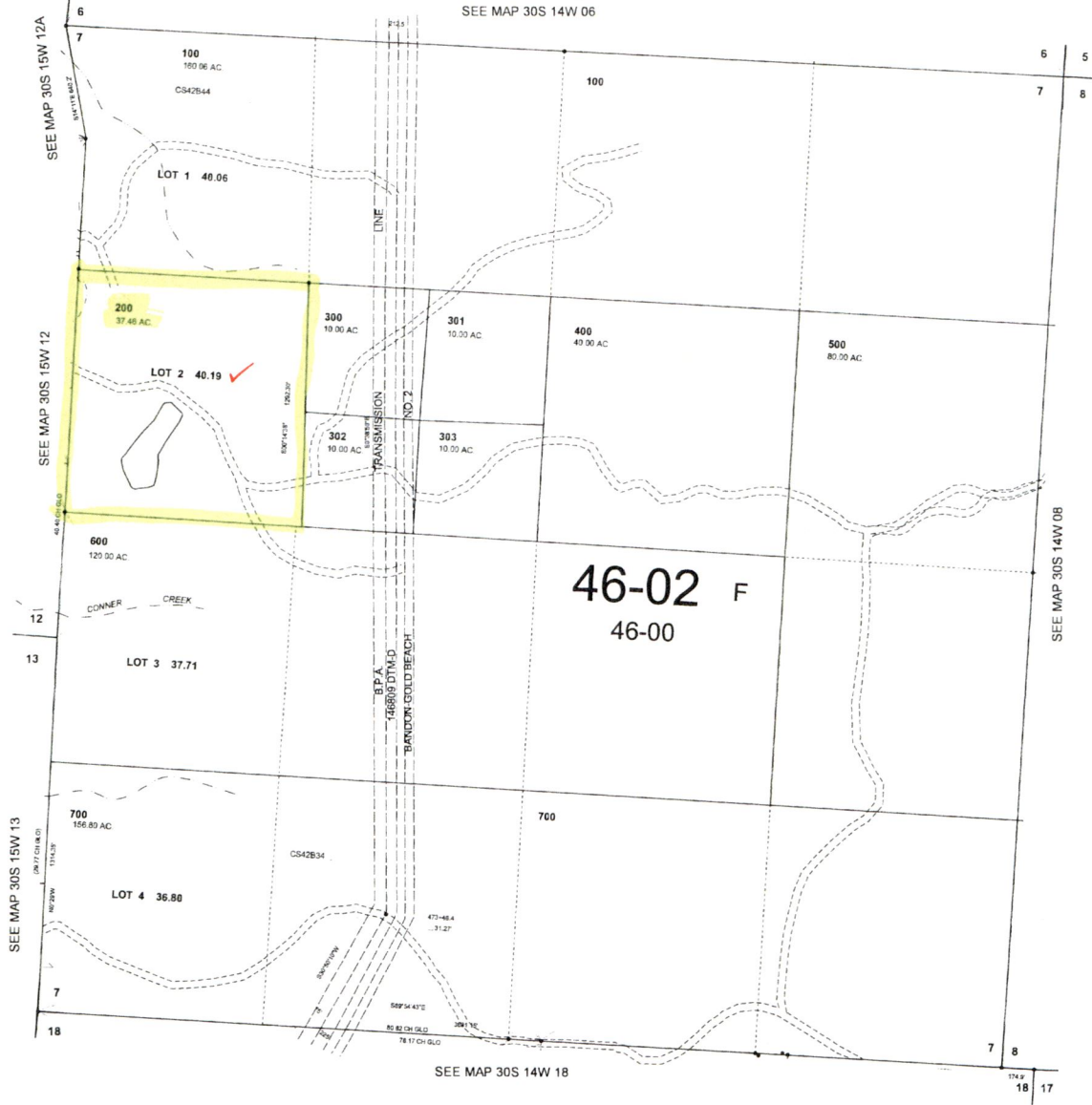
THIS MAP WAS PREPARED FOR ASSESSMENT PURPOSE ONLY

SECTION 7 T30S R14W W.M.
COOS COUNTY

30S 14W 07
CANCELLED NO.

1" = 400'

SEE MAP 30S 14W 06



04-16-1991

30S 14W 07

Lynn and Rena Cary
87401 Lois Lane
Bandon OR

Water Rights Platcard Report

NCR ✓

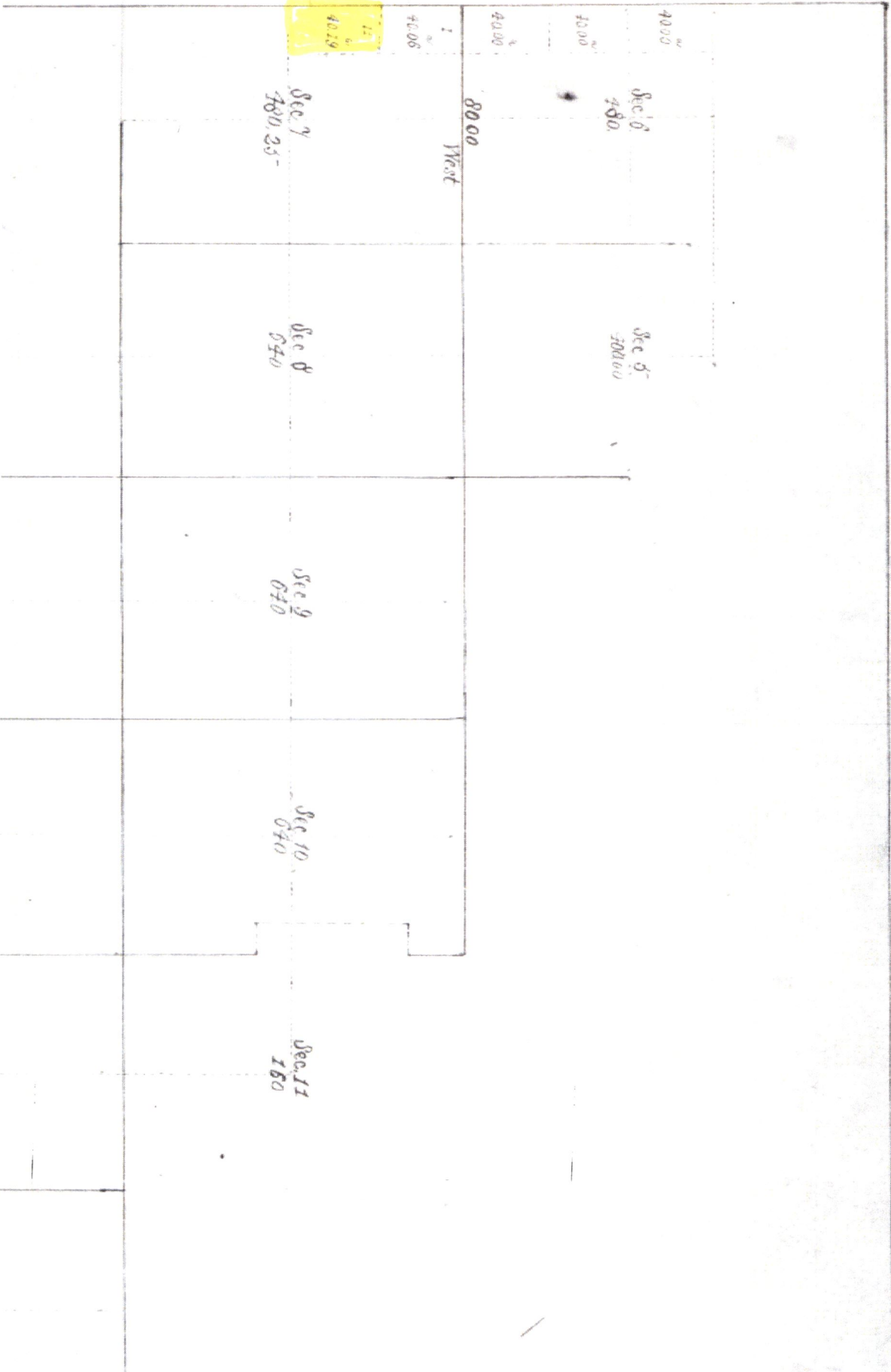
Meridian: Township: Range: Section: Records per Page: Search Platcards Maps! [Learn about](#) * [View Map](#)

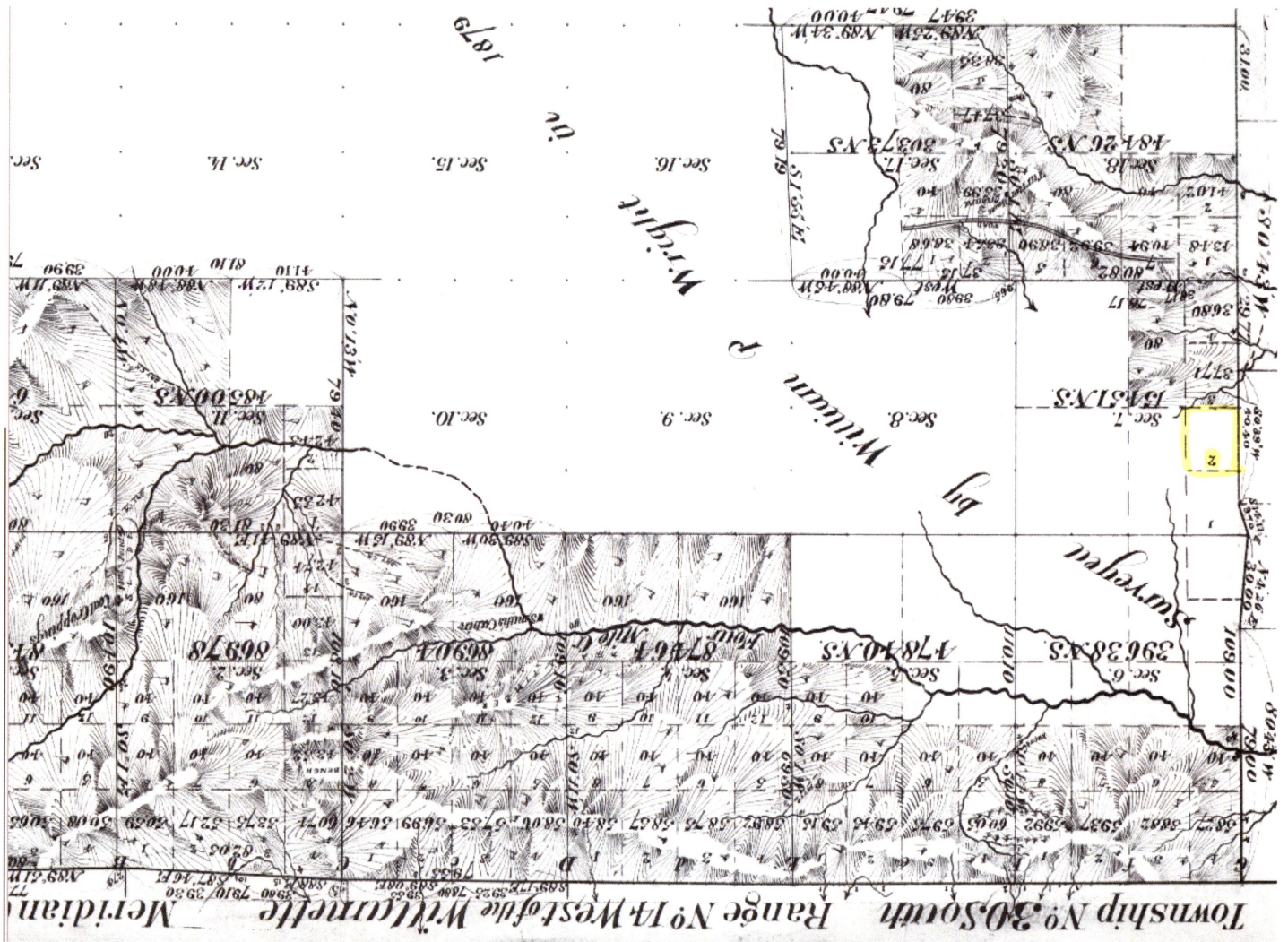
Water Right	Changing Xfers	Priority	Use	Use Status	DLC	Gov't Lot	QQ(40): Q(160):	NE NE	NW NE	SW NE	SE NE	NE NW	NW NW	SW NW	SE NW	NE SW	NW SW	SW SW	SE SW	NE SE	NW SE	SW SE	SE SE	Unkwn QQ	
Select Permit: S 53501 *		8/29/1997	CRANBERRY											10.6											
<u>Additional Info:</u> CARY BOGS App: S83542 Permit: S53501																									
Select Cert:28647 OR CN		3/6/1943	IRRIGATION	CN		2								1-6											
<u>Additional Info:</u> MARVIN/VIVIAN KRANICK App: S19862 Permit: S15439 Cert: 28647																									
Select Cert:50351 RR CN		3/6/1943	IRRIGATION	CN		2								1-6											
<u>Additional Info:</u> MARVIN E/VIVIAN KRANICK App: S19862 Permit: S15439 Cert: 50351																									
Select Cert:66673 RR *		3/6/1943	IRRIGATION			2								1.6											
<u>Additional Info:</u> MARVIN E KRANICK App: S19862 Cert: 66673																									
Select Permit: R 12570 *		8/29/1997	CRANBERRY											*											
<u>Additional Info:</u> CARY BOGS App: R83543 Permit: R12570																									
Select App: P 82242 *		1/31/1997	LIVESTOCK																				*		
<u>Additional Info:</u> CHARLIE WATERMAN App: P82242																									
Select App: P 82242 *		1/31/1997	WILDLIFE																				*		
<u>Additional Info:</u>																									

Township No. 30 South Range No. 14 West Willamette Meridian, Oregon.



Township 30 South, Range 14 West, Willamette Meridian Oregon





1879

Virginia

Swurgeon by William P. Virginia

Virginia

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Wilmotte Meridian

Pump Capacity Calculation Sheet *PODI/RES1*

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 = 1 ✓
Efficiency = 7.04 ✓
Lift = 20 ✓
PSI = 40 ✓

Results Calculated

(hp)(efficiency) = 7.04
Head based on psi = 101.6
Total dynamic head = 121.6
(head + lift)

Pump Capacity = 0.06 feet per second $\times 1.98 \times 365 = 43.4$ AF ✓

Authorized volume = 56.6 AF year round

Due to under-development, reservoirs capacity reduced to 17.5 AF

Pump Exceeds capacity
Makes proof

$$(5a)(x) = 15.8 \text{ AF} / 5$$

$$x = 3.16$$

Pump Capacity Calculator *POD 2 / RES 2*

using Department designed formula:

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

Efficiency:

Centrifugal = 6.61

Turbine = 7.04

Data Entry (fill in underlined blanks)

HP = 30 ← *2-15Hp pumps*
Efficiency = 6.61
Lift = 20
PSI = 40

Results Calculated

(hp)(efficiency) = 198.3
Head based on psi = 101.6
Total dynamic head = 121.6
(head + lift)

Pump Capacity = 1.631 cubic feet per second $\times 1.98 \times 365d =$

claim = 0.70 per pump $\times 2 = 1.56 \text{ CFS} \times 1.98 \times 365 = 1127 \text{ AF}$

Pump Capacity Calculator *POD 3/RES3*

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)

$$\begin{aligned} \text{HP} &= \underline{\quad 1 \quad} \\ \text{Efficiency} &= \underline{\quad 7.04 \quad} \\ \text{Lift} &= \underline{\quad 20 \quad} \\ \text{PSI} &= \underline{\quad 40 \quad} \end{aligned}$$

Results Calculated

$$\begin{aligned} (\text{hp})(\text{efficiency}) &= 7.04 \\ \text{Head based on psi} &= 101.6 \\ \text{Total dynamic head} &= 121.6 \\ (\text{head} + \text{lift}) & \end{aligned}$$

$$\text{Pump Capacity} = 0.058 \text{ cubic feet per second} \quad \times 1.98 \times 365 = 41.9 \text{ A.F}$$

Sprinkler Capacity Calculator

Data Entry (fill in underlined blanks)

Sprinkler group 1 Nozzle size = 1/8 inch (type an apostrophe before the size)
 Pressure = 40 PSI
 Number of heads = 193

Sprinkler group 2 Nozzle size = _____ inch (type an apostrophe before the size)
(if applicable) Pressure = _____ PSI
 Number of heads = _____

Sprinkler group 3 Nozzle size = _____ inch (type an apostrophe before the size)
(if applicable) Pressure = _____ PSI
 Number of heads = _____

Results calculated

Sprinkler group 1 capacity = 559.7 gpm, or 1.247 cfs
Sprinkler group 2 capacity = 0 gpm, or 0.000 cfs
Sprinkler group 3 capacity = 0 gpm, or 0.000 cfs

Total sprinkler capacity = 559.7 gpm, or 1.247 cfs

Note: If entered values return a result of 0 gpm or "#N/A", then the sprinkler capacity chart does not contain a rate for that nozzle size and PSI.

A rough alternate calculation can be made using this formula:

$28.93 \times (\text{orifice size in decimal, squared}) \times (\text{square root of pressure})$

(Source: rainbird.com)

$$193 \text{ sprinklers} \times 2.9 \text{ gpm/sprinkler} = 1.25 \text{ cfs}$$

$$\text{Claim} = 0.956 \text{ cfs} \times 1.98 \times 365 = 690 \text{ A.F}$$

Rainbird Nozzle Size Reference	
Nozzle #	Size (in)
4	1/16
5	5/64
6	3/32
7	7/64
8	1/8
9	9/64
10	5/32
11	11/64
12	3/16
13	13/64
14	7/32
15	15/64
16	1/4
17	17/64
18	9/32
20	5/16
22	11/32
24	3/8
26	13/32
28	7/16
30	15/32
32	1/2
34	17/32
36	9/16
40	5/8
44	11/16