## CLAIM OF BENEFICIAL USE for Transfer with Multiple Changes - Groundwater



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900 www.oregon.gov/OWRD

A fee of \$230 must accompany this form for any <u>Transfer final orders</u> <u>RECEIVED</u> including a water right with a priority date of July 9, 1987, or later. JUN 0 2 2022

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.

**OWRD** 

A separate form shall be completed for each transfer.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: <a href="https://www.oregon.gov/OWRD/Forms/Pages/default.aspx">https://www.oregon.gov/OWRD/Forms/Pages/default.aspx</a>

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 7" 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 503-979-9103.

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:

https://www.oregon.gov/OWRD/programs/WaterRights/RA/Pages/default.aspx

# Type of Authorized Change This Claim is being submitted for a transfer involving multiple changes. Mark all that apply: 1. Change in POA(s) or Additional POA(s) 2. Change in Place of Use 3. Change in Character of Use A separate section will be completed for each type of change authorized in the transfer final order. 1. File Information APPLICATION # T-9420

### JUN 02 2022

2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME		PHONE NO.	OWRD	Additional Contact No.
David Roth & Gayln Roth				
ADDRESS				
P.O. Box 358				
CITY	STATE	ZIP	E-MAIL	
Christmas Valley	OR	97630		

If the current property owner is not the transfer holder of record, it is recommended that an assignment be filed with the Department. <u>Each</u> transfer holder of record must sign this form.

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

RD		
STATE	ZIP	
	STATE	

4. Date of Site Inspection:

I	5/11	/2022		

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

Name	DATE	ASSOCIATION WITH THE PROJECT
Dwight Roth	5/11/2022	Leasee/Operator

6. County:

Lake			
Lunc			

7. If any property described in the place of use of the transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(5)):

OWNER OF RECORD			
NA			
Address			1
Сіту	STATE	ZIP	

Add additional tables for owners of record as needed

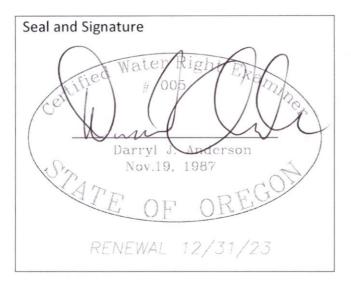
### SECTION 2 SIGNATURES

JUN 0 2 2022

### **OWRD**

### CWRE Statement, Seal and Signature

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



CWRE NAME		PHONE NO.		Additional Contact No.
Darryl Anderson		541-947-4	1407	
Address				
17681 Highway 395				
Сіту	STATE	ZIP	CITY	
Lakeview	OR	97630	Lakeview	

### Transfer Holder of Record Signature or Acknowledgement

**<u>Each</u>** 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.

PRINT OR TYPE NAME	TITLE	DATE
David Roth		5-3122
GALYN ROTH		MAX3122
	David Roth	David Roth

### JUN 02 2022

### **SECTION 3**

### **Changes Made**

### OWRD

Note: The Claim only needs to describe the changes that were authorized in the transfer final order.

### Change #1

### Change in POA(s) or Additional POA(s)

Did the transfer order authorize a change in the points of appropriation or additional points of YES appropriation?

1. New or additional point of appropriation name or number:

Well #8	LAKE 225		Fort Rock Basin
(CORRESPOND TO MAP)	WELL (IF APPLICABLE)		Order)
(POA) NAME OR NUMBER	WORK PERFORMED ON THE	(IF APPLICABLE)	(IF LISTED IN TRANSFER FINAL
POINT OF APPROPRIATION	WELL LOG ID # FOR ALL	WELL TAG#	Source

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

If well logs are available, items A and B below can be deleted

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

14"	0-20	370	5/7/1980	ALTERATIONS NA	Gilbert Crowson	Mel Search Well Drilling
CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	DATE OF ORIGINAL WELL	DATES OF	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY

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

NA

### 2. Variations:

Was the use developed differently from what was authorized by the transfer final order, or extension final? YES

If yes, describe below.

(e.g. "The order allowed three new/additional points of appropriation. The water user only developed one of the points.")

Well 8 was approved as an additional point of appropriation for the acreage moved to Section 3. Well 8 is the only point of appropriation for the acreage in Section 3.

3. Claim Summary:

POA  NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED
Well #8	1.175	2.31 (full pivot rotation)	NA

### **System Description**

Are there multiple new or additional Points of Appropriation (POA)?

NO

If "YES" you will need to copy and complete either Section A or B in this Section for each POA.

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

Well #8			

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### A. POA System Information

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Provide the following information concerning the point of appropriation. Information provided must describe the equipment used to appropriate water from the point of appropriation.

1. Pump Information

MANUFACTURER	MODEL	SERIAL NUMBER	Type (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Fairbanks Morse	HI6FL710 Ob	NA	Turbine	6"	8"

### 2. Motor Information

MANUFACTURER	Horsepower
U.S. Electrical Motors	75

3. Theoretical Pump Capacity

75	37	DURING PUMPING 120	8'	(IN CFS)
		*IF A WELL, THE WATER LEVEL	PLACE OF USE	Оитрит
Horsepower	OPERATING PSI	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP TO	TOTAL PUMP

4.	Provid	e	gmug	calc	u	lations:

See Attached	

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

INITIAL METER READING	ENDING METER READING	DURATION OF TIME	TOTAL PUMP OUTPUT	
		OBSERVED	(IN CFS)	
NA				

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

<b>6.</b> Additional notes or comments related to the system:	
None	

### B. Groundwater Source Information (Well and Sump)

1. Is the appropriation from a dug well (sump)?

NO

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### Change #2

### Change in Place of Use

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Did the transfer order authorize a change in the place of use?

YES

### 1. Claim Summary – Authorized Use:

If Irrigation or Nursery Use:

THE # OF ACRES ALLOWED	THE # OF ACRES DEVELOPED
Section 2 - 9.50	9.50
Section 3 - 95.10	95.10

If the new use(s) was not irrigation or nursery:

New Use(s)	WAS THE NEW PLACE OF USE DEVELOPED TO THE FULL EXTENT		
	AUTHORIZED UNDER THE ORDER?		
	(INCLUDE THE LOCATION OF THE DEVELOPED PLACE USE ON THE		
	CLAIM MAP)		
	NA		
	NA		

### 2. Variations:

Was the use developed differently from what was authorized by the transfer final order? **YES** If yes, describe below.

(e.g. "The order authorized a change in place of use for 40 acres. The water user only developed 38 acres.")

The full acreage on the approved transfer order was developed. In Section 3, a shorter pivot system was installed than originally planned. The acreages per quarter-quarter were listed using a longer pivot. The correct acreages with the installed shorter pivot are shown on the attached map.

### Change #3

### Change in Character of Use

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Did the transfer order authorize a change in character of use?

NO OWRD

### **SECTION 4**

### **CONDITIONS**

All conditions contained in the 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:

Describe how the water user has complied with each of the development timelines established in the transfer final order and any extensions of time issued for the transfer:

	Date from Transfer	DATE THE AUTHORIZED CHANGES WERE COMPLETED  *THIS DATE MUST FALL BETWEEN THE "ISSUANCE DATE" AN  THE "COMPLETENESS DATE"		
ISSUANCE DATE	January 26, 2009			
COMPLETENESS DATE FROM ORDER (C)	October 1, 2010	Changes completed in the 2009 irrigation season. Pivot System in Section 3 was replaced in 2013		

<sup>\*</sup> MUST BE WITHIN PERIOD BETWEEN TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETE THE CHANGE

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

NO

- 3. Measurement Conditions:
- a. Does the transfer final order, or any extension final order require the installation YES of a meter or other approved measuring device?

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 appropriation.

b. Has a meter been installed?

YES

### c. Meter Information

POA NAME OR#	MANUFACTURER	SERIAL#	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Well #5	McCrometer	07- 04678	Working	027505 gal x 1000	2007
Well #8	Aqua Master 900	50162	Working	NA, meter turned off	Replaced 2013

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4. Recording and reporting conditions

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a. Is the water user required to report the water use to the Department?

NO

5. Other conditions required by the transfer final order or extension final order:

NIO

a. Were there special well construction standards?

NO

b. Was submittal of a ground water monitoring plan required?

NO

c. 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):

NA		

### **SECTION 5**

### **ATTACHMENTS**

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

ATTACHMENT NAME	DESCRIPTION
COBU Map	Claim map
Photos	Site photos
Well Logs	Well logs for Wells 5 and 8
Summary of Nozzle Flows – Well #8 Pivot	Nozzle flows for pivot in Section 3
Worksheet for Pressure Pipe – Well 8	Pressure pipe calculations for Well 1 to run the full pivot
Pump Calculations – Well 8	Theoretical pump capacities for Well 8 to run the pivot in Section 3

JUN 0 2 2022

### **SECTION 6**

### CLAIM OF BENEFICIAL USE MAP

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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.

The changes that were authorized under the transfer final order must be mapped based on the developed locations; new or additional points of appropriation and place of use.

In cases where the order involved additional points of appropriation, the additional points should be mapped based on their developed locations. The original points of appropriation should be mapped based on the original right of record at the time the transfer final order was issued.

In cases where the order involved changing the place of use for a portion of a water right, the portion of the place of use being changed should be mapped based on the developed location. If the transfer also included portions of the place of use that were not being modified, but were receiving a new or additional point of appropriation, the place of use for those lands should be mapped based on the original right of record at the time the transfer final order was issued.

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.

Survey performed with Real Time GPS – Corner tie is a County Surveyor brass cap located at the northeast corner of Section 2, T25S 17E, W.M. and a County Surveyor brass cap located at the northeast corner of Section 3, T25S 18E, W.M.

### **Map Checklist**

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Please be sure that the map you submit includes ALL the items listed below. (Reminder: Incomplete maps and/or claims may be returned.)

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$\bowtie$	Map on polyester film
	Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map)
$\boxtimes$	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
$\boxtimes$	Locations of fish screens and/or fish by-pass devices in relationship to point of diversion
$\boxtimes$	Locations of meters and/or measuring devices in relationship to point of diversion or appropriation
$\boxtimes$	Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
$\boxtimes$	Point(s) of diversion or appropriation (illustrated and coordinates)
$\boxtimes$	Tax lot boundaries and numbers
$\boxtimes$	Source illustrated if surface water
$\boxtimes$	Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
	Application and permit number or transfer number
$\boxtimes$	North arrow
$\boxtimes$	Legend
$\boxtimes$	CWRE stamp and signature

### WATER WELL REPORT STATE OF OREGON

### RECEIVED MAR 1 2 1981 State Well No.

WATER RESOURCES DEP state Permit No.

* * * * * * * * * * * * * * * * * * *	L.A.	KE 4372	
(1) OWNER:	(10) LOCATION OF WELL:		
Name Dave Roth	, ,		
Address Tue Grand Red		well number	
City Suseil Name State Out	m .		W.M.
	Tax Lot # Lot Bl	k Subdivision	
(2) TYPE OF WORK (check):	Address at well location:		
New Well Deepening □ Reconditioning □ Abandon □			
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed	l well.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found //O		ft.
		low land surface. Date	
ury Air Driven Domestic Doustrial Municipal Largery Mud Dug Driven Test Well Other	Artesian pressure It	os. per square inch. Date	
Cable   Bored   Thermal: Withdrawal   Reinjection	(12) WELL LOG: Diameter of well be	elow casing 12	
CASING INSTALLED: Steel Plastic		th of completed well /20	
Threaded  Welded	Formation: Describe color, texture, grain size and	structure of materials; and	show
'4 "Diam from O ft to 67 ft Gauge 3/2	thickness and nature of each stratum and aquifer for each change of formation. Report each change	penetrated, with at least one	entry
	and indicate principal water-bearing strata.	position of Static water	revei
LINER INSTALLED:	MATERIAL	From To SW	177
" Diam. from			*6
	Sandy Clay	0 15	
(6) PERFORATIONS: Perforated?   Yes 200	Blue Claystone	15 67	
Type of perforator used	Dasact	67 120	
Size of perforations in. by in.			
perforations from ft. to ft.			
perforations from			
perforations from			
7) SCREENS: Well screen installed?   Yes   You	DECEMEN		
Manufacturer's Name	RECEIVED		
Type Model No.	JUN 0 2 2022		
Diam. Slot Size Set from ft. to ft.			
Diam. Slot Size Set from ft. to ft.			
P) WELL TESTS:  Drawdown is amount water level is lowered below static level	OWRD		
V			
Was a pump test made? ☐ Yes ☑ No If yes, by whom?			
'd: gal/min. with ft. drawdown after hrs.			
Air test 1000 f gal/min. with drill stem at 60 ft. / hrs.			
ler test gal./min. with ft. drawdown after hrs.			
tesian flow g.p.m.			
perature of water Depth artesian flow encountered ft.	Work started 2-/7 198/ Comp	pleted 2-20 19	98-1
9) CONSTRUCTION: Special standards: Yes \( \text{No} \)	Date well drilling machine moved off of well	4 -	98/
Vell seal-Material used Coming			7
Well sealed from land surface to	Drilling Machine Operator's Certification		
Diameter of well bore to bottom of seal 18	This well was constructed under my dire and information reported above are true to n	ct supervision. Materials	used lief
Diameter of well bore below seal	[Signed]	Date 2 - 25.19.	
10	(Drilling Machine Operator)	-	
Number of sacks of cement used in well seal sacks  Toward  Sacks	Drilling Machine Operator's License No	804	
iow was centent grout placed:	Water Wall Contractor's Contification		
	Water Well Contractor's Certification:	41	
T	This well was drilled under my jurisdic the best of my knowledge and belief.	tion and this report is tru	ae to
Was pump installed? Type HP Depth ft.	Nama 4646 1 806/1/1	W.C	
Was a drive shoe used? Dres No Plugs Size: location ft.	(Person, firm or corporation)	(Type or print)	
id any strata contain unusable water?  Yes No	Address 29011 Santion	Huy Sweet H	lan
ype of Water? depth of strata	91 1/2	,	
fethod of sealing strata off	[Signed] (Water Well Con	tractor)	
Was well gravel packed? ☐ Yes 🗖 Xo Size of gravel:	Contractor's License No. 35.7. Date	2-25 19	81

... ft. to ....

Gravel placed from

NOTICE TO WATER WELL CONTRACTOR The original and first copy of this report 12 225 State Well No. 255 WHITER WELL REPORT are to be filed with the WATER RESOURCES DEPARTMENT.
SALEM OREGON 97310
within 30 years STATE OF OREGON within 30 days from the date AUG 181980 (Please type or print) RECEIVED WATER RESOURCES DEport write above this line, of well completion. SALEM, OREGON (1) OWNER: (10) LOCATION OF WELL: Driller's well number T. Bearing and distance from section or subdivision corner (2) TYPE OF WORK (check): New Well Deepening [ Reconditioning [ Abandon [7] If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (3) TYPE OF WELL: (4) PROPOSED USE (check): Depth at which water was first found Driven 🗆 Domestic | Industrial | Municipal | Static level Jetted [ ft. below land surface. Test Well | Other Bored [ Irrigation Artesian pressure lbs, per square inch. Date CASING INSTALLED Threaded | Welded "Diam. from Labou ft. to Cft. Gage." (12) WELL LOG: Diameter of well below casing Depth drilled ft. Depth of completed well " Diam. from ... . ft. to .. Formation: Describe color, texture, grain size and structure of materials; " Diam. from ..... ft. to ..... ft. Gage and show thickness and nature of each stratum and aquifer penetrated. with at least one entry for each change of formation. Report each change in (6) PERFORATIONS: position of Static Water Level and indicate principal water-bearing strata. Perforated? | Yes No. Type of perforator used MATERIAL Size of perforations in, by TOWN \_\_\_ perforations from \_\_\_\_ perforations from ...... ... perforations from ..... ft. (7) SCREENS: Well screen installed? 

Yes No Manufacturer's Name Set from ... Diam. ..... Slot size ..... (8) WELL TESTS: Drawdown is amount water level is lowered below static level a pump test made? U Yes No If yes, by whom? with drawdown after 264 hrs. 320 er test 1000 gal./min. with ft. drawdown after hrs. sian flow Temperature of water Depth artesian flow encountered . Work started 4 19 80 Completed 1980 Date well drilling machine moved off of well (9) CONSTRUCTION: 19 80 Well seal-Material used Drilling Machine Operator's Certification: This well was constructed under my direct supervision. Materials used and information reported above are true to my Well sealed from land surface to Diameter of well bore to bottom of seal best knowledge and belief.
[Signed] Diameter of well bore below seal 6 Number of sacks of cement used in well seal .... (Drilling . sacks How was cement grout placed? Ceiment Drilling Machine Operator's License No. 4 mixed up. pipe run down grouted Water Well Contractor's Certification: glong side This well was drilled under my jurisdiction and this report is ..... N. true to the best of my knowledge and belief. Was a drive shoe used? 

Yes Size: location .... Did any strata contain unusable water? | Yes Type of water? depth of strata Address Method of sealing strata off Was well gravel packed? [ Yes No Size of gravel: Gravel placed from ..... 26 7 Date V Contractor's License No.

### Theoretical Pump Capacity

### Roth T-9420 Well #8 Pivot

Flow 2

2.31 CFS

Head

40.68 PSI see calculations on loss

LIFT

120 Feet

Efficency

75% Turbine Pump

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HP

74.9 OK 75 HP

### SUMMARY OF NOZZLE FLOWS

Well #8 Pivot Flows

Roth T-9420 Well #8 Pivot

#	NOZZLE SIZE	DIAMETER	PSI	FLOW (FT^3/S)	TOTAL (FT^3/SEC)	FLOW (GPM)	TOTAL FLOW (GPM)
0	10	0.07813	19.5	0.002	0.000	0.80	0.00
0	11	0.08594	19.5	0.002	0.000	0.97	0.00
0	12	0.09375	19.5	0.003	0.000	1.16	0.00
0	13	0.10156	19.5	0.003	0.000	1.36	0.00
0	14	0.10938	19.5	0.004	0.000	1.58	0.00
0	15	0.11719	19.5	0.004	0.000	1.81	0.00
6	16	0.12500	19.5	0.005	0.028	2.06	12.35
2	17	0.13281	19.5	0.005	0.010	2.32	4.65
1	18	0.14063	19.5	0.006	0.006	2.61	2.61
1	19	0.14844	19.5	0.006	0.006	2.90	2.90
0	20	0.15625	19.5	0.007	0.000	3.22	0.00
1	21	0.16406	19.5	0.008	0.008	3.55	3.55
3	22	0.17188	19.5	0.009	0.026	3.89	11.68
0	23	0.17969	19.5	0.009	0.000	4.25	0.00
3	24	0.18750	19.5	0.010	0.031	4.63	13.90
0	25	0.19531	19.5	0.011	0.000	5.03	0.00
2	26	0.20313	19.5	0.012	0.024	5.44	10.87
2	27	0.21094	19.5	0.013	0.026	5.86	11.73
0	28	0.21875	19.5	0.014	0.000	6.31	0.00
3	29	0.22656	19.5	0.015	0.045	6.76	20.29
9	30	0.23438	19.5	0.016	0.145	7.24	65.15
9	31	0.24219	19.5	0.017	0.155	7.73	69.56
10	32	0.25000	19.5	0.018	0.184	8.24	82.36
9	33	0.25781	19.5	0.020	0.176	8.76	78.83
7	34	0.26563	19.5	0.021	0.145	9.30	65.08
10	35	0.27344	19.5	0.022	0.220	9.85	98.53
8	36	0.28125	19.5	0.023	0.186	10.42	83.39
13	37	0.28906	19.5	0.025	0.319	11.01	143.14
11	38	0.29688	19.5	0.026	0.285	11.61	127.75
5	39	0.30469	19.5	0.027	0.136	12.23	61.17
3	40	0.31250	19.5	0.029	0.086	12.87	38.61
1	41	0.32031	19.5	0.030	0.030	13.52	13.52
0	42	0.32813	19.5	0.032	0.000	14.19	0.00
0	43	0.33594	19.5	0.033	0.000	14.87	0.00
0	44	0.34375	19.5	0.035	0.000	15.57	0.00
0	45	0.35156	19.5	0.036	0.000	16.29	0.00
1	46	0.35938	19.5	0.038	0.038	17.02	17.02
120		OW NOZZLES			2.314	V. E. S.	1038.62
#	END GUN (IN)	DIAMETER	PSI	FLOW (FT^3/S)		FLOW (GAL/MIN)	TOTAL FLOW
0	0.75	0.75	60	0.232	0.000	104.02	0.000
0	0	0	40	0.000	0.000	0.00	0.000
0	0	0	32.5	0.000	0.000	0.00	0.000
0				FT^3/S			GAL/MIN
		FLOW TO	TAL		2.31		1038.62



ANDERSON ENGINEERING & SURVEYING, INC. PO BOX 28 LAKEVIEW, OREGON 97630 (541) 947-4470 FAX 947-2321

> JUN 0 2 2022 OWRD

### **Worksheet for Pressure Pipe - Well 8**

1				*	
Pro	LOCT	1)6	200	rin	non
110	CCL		536	IID	UOII

Friction Method

Hazen-Williams Formula

Solve For

Pressure at 1

In		114			10
			887	~	10
200	-	~ ~			-

Pressure 2	37.00	psi
Elevation 1	4365.50	ft
Elevation 2	4373.50	ft
Length	16.00	ft
Roughness Coefficient	100.000	
Diameter	0.67	ft
Discharge	2.31	ft3/s

### Results

Pressure 1	40.68	psi	
Headloss	0.50	ft	
Energy Grade 1	4460.01	ft	
Energy Grade 2	4459.51	ft	
Hydraulic Grade 1	4459.34	ft	RECEIVED
Hydraulic Grade 2	4458.84	ft	MEGLIVED
Flow Area	0.35	ft²	JUN 0 2 2022
Wetted Perimeter	2.10	ft	2 2022
Velocity	6.55	ft/s	OWRD
Velocity Head	0.67	ft	OWAD
Friction Slope	0.03100	ft/ft	

Inspection Photographs Transfer T-9420

Job: 2022-066 Date: 5/11/2022



JUN 0 2 2022

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Well #8



Well #8 Access Port



Inspection Photographs Transfer T-9420

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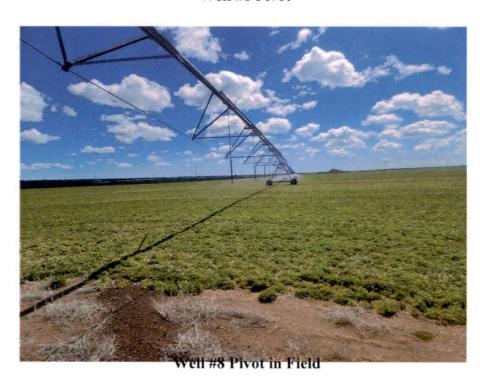
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Job: 2022-066 Date: 5/11/2022



Well #8 Pivot



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Well #8 Place of Use



Well #8 Typical Nozzle



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**Well #8 Pivot Pressure Transducer** 



Well #5



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Well #5 Pivot Center



Well #5 Flowmeter



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Well #5 Pivot in Field



Well #5 Pivot Nozzle Typical



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Well #5 Place of Use



Well #5 Pivot, Place of Use



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Children .