

**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 \$345 must accompany this form for transfers where the application was submitted on July 9, 1987, or later.

Enter the date the transfer application was submitted:

February 5, 2021

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:

<https://www.oregon.gov/OWRD/Forms/Pages/default.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 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 503-986-0900.

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>

**SECTION 1
GENERAL INFORMATION
Type of Authorized Change**

This Claim is being submitted for a transfer involving multiple changes.

YES

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-13611

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MAR 30 2026

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2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME Boersma Family, LLC		PHONE NO. 541-880-8961	ADDITIONAL CONTACT NO.
ADDRESS 1363 Haskins Road			
CITY Bonanza	STATE OR	ZIP 97623	E-MAIL

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

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

TRANSFER HOLDER OF RECORD NA		
ADDRESS		
CITY	STATE	ZIP

4. Date of Site Inspection:

10/16/2025

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

NAME	DATE	ASSOCIATION WITH THE PROJECT
Leslie Boersma	10/16/2025	Owner
Jeff Boersma	10/16/2025	Owner

6. County:

Klamath

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		
CITY	STATE	ZIP

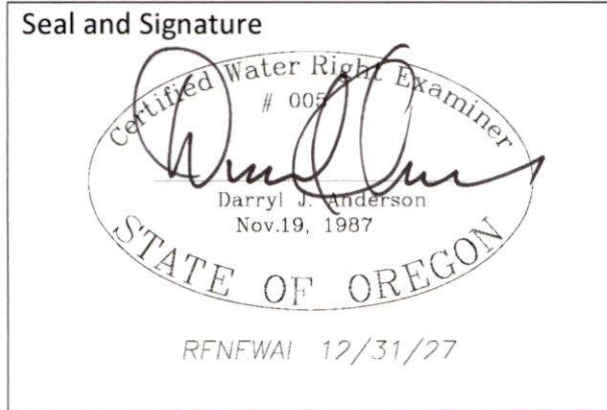
Add additional tables for owners of record as needed

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MAR 30 2026
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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.



CWRE NAME Darryl Anderson		PHONE NO. 541-947-4407	ADDITIONAL CONTACT NO.	
ADDRESS 17681 Highway 395				
CITY Lakeview	STATE OR	ZIP 97630	E-MAIL danderson@shn-engr.com	

Transfer Holder of Record Signature or Acknowledgement

Each 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
	Jeff Barsma	owner/member	3/24/26

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MAR 30 2026
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SECTION 3
Changes Made

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 appropriation? **YES**

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

POINT OF APPROPRIATION (POA) NAME OR NUMBER (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)	SOURCE (IF LISTED IN TRANSFER FINAL ORDER)
Well #4	KLAM 57552	NA	
Hoefler Well	KLAM 12416	NA	

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

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:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
18"	40	800	1928	NA	Unknown	unknown
18"	Unknown	280	1949	NA	Unknown	unknown

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.

Well Logs Attached

2. Variations:

Was the use developed differently from what was authorized by the transfer final order, or extension final? **NO**

If yes, describe below.

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

NA

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MAR 30 2026
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3. Claim Summary:

NEW OR ADDITIONAL POA NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED
Well 4	0.85 cfs	2.88 cfs	NA
Hoefler Well	2.21 cfs	4.44 cfs	NA

System Description

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

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 4

A. POA System Information

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
Ingersoll-Rand	NA	91076617	turbine	10"	12"
Cornell Pump	4RB-CC	TC05541	Centrifugal	6"	4"

2. Motor Information:

MANUFACTURER	HORSEPOWER
B.M.R. Electric Motor Corporation	400
Baldor Electric Co.	30

3. Theoretical Pump Capacity – Pump at Well:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO GROUND SURFACE (THE DEPTH TO WATER FROM THE GROUND SURFACE MEASURED AT THE WELL DURING PUMPING)	LIFT TO PLACE OF USE (THE LIFT FROM THE GROUND SURFACE AT THE WELL TO THE PLACE OF USE)	TOTAL PUMP OUTPUT (IN CFS)
400	94 at well, 102 at booster	50	-5	13.69

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

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MAR 30 2026
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4. Provide pump calculations:

See Attached, well runs multiple pivots on several additional water rights, complete system was modeled with EPANET

5. 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)
NA – not running			

B. Groundwater Source Information (Well and Sump)

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

NO

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Hoefler Well

A. POA System Information

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
Johnston Pump	NA	JB4432	Turbine	6"	8"
Berkeley Pump	B4EPBL	6074036	centrifugal	6"	4"
Berkeley Pump	B4EPBL	7971891	centrifugal	6"	4"

2. Motor Information:

MANUFACTURER	HORSEPOWER
U.S. Motor	30
GE Motor	40
Century Pump Motor	40

3. Theoretical Pump Capacity – Pump at Well:

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO GROUND SURFACE (THE DEPTH TO WATER FROM THE GROUND SURFACE MEASURED AT THE WELL DURING PUMPING)	LIFT TO PLACE OF USE (THE LIFT FROM THE GROUND SURFACE AT THE WELL TO THE PLACE OF USE)	TOTAL PUMP OUTPUT (IN CFS)
30	9 at well, 78 at boosters	40	0	4.44 cfs

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

4. Provide pump calculations:

See Attached, well and booster provide water for other water rights, complete system was modeled with EPANET

5. 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)
NA – not running			

B. Groundwater Source Information (Well and Sump)

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

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MAR 30 2026
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NO

Change #2

Change in Place of Use

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
Certificate 20707 – 90.01	90.01
Certificate 22851 – 112.74	112.74
Certificate 27209 – 22.79	22.79
Certificate 40185 – 30.77	30.77

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? **NO**

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.")

NA

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Change #3

Change in Character of Use

Did the transfer order authorize a change in character of use? **NO**

**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" AND THE "COMPLETENESS DATE"
ISSUANCE DATE	May 23, 2025	
COMPLETENESS DATE FROM ORDER (C)	October 1, 2026	Flowmeter on Hoefler Well installed 10/14/2025

* 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 of a meter or other 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 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 #4	Flo-Wise SC	NA	Working	NA – not on	unknown
Hoefler Well	Seametrics	009250291	Working	0	10/14/2025

4. Recording and reporting conditions

a. Is the water user required to report the water use to the Department? **NO**

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

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MAR 30 2026**

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

No additional conditions

SECTION 5 ATTACHMENTS

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

ATTACHMENT NAME	DESCRIPTION
Map	Claim of Beneficial Use Map
Photographs	Photographs of Site Visit
Well Logs	Well Logs for Well #4 and Hoefler Well
Sprinkler Capacity – Pivots	Nozzle flows for 4 pivots
EPANET Models	EPANET models for Well #4 and Hoefler Wells for flows and pressure calculations
Well 4 Pump Test	Pump test reports for well 4

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 MAR 30 2026
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SECTION 6

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.

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 5/8" iron rod located at the southwest corner of Section 25, T38S R11.5E, W.M.

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MAR 30 2026
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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
- 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
- Quarter-Quarters illustrated and named (NE NE, NW NE, etc.)
- 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

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Reference: 225062
10/16/2025

Subject: Boersma Family, LLC Water Right Transfer T-13611



Well #4



Well #4 Flowmeter

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Boersma Family, LLC Water Right Transfer T-13611

10/16/2025

Page 2



Small Pivot



Small Pivot

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Small Pivot Typical Nozzle



Small Pivot End Gun

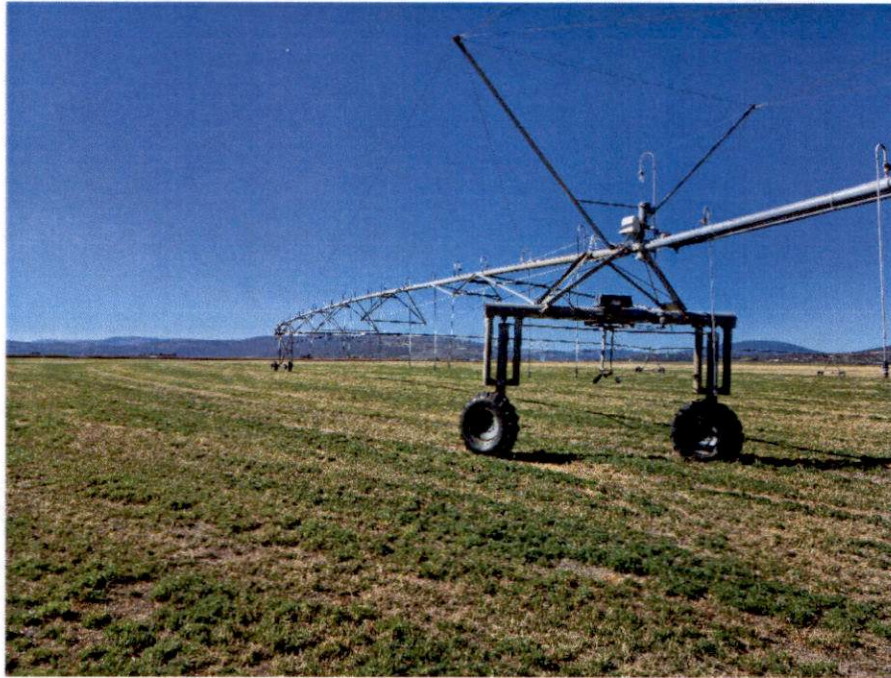
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10/16/2025

Page 4



Northeast Pivot



Northeast Pivot

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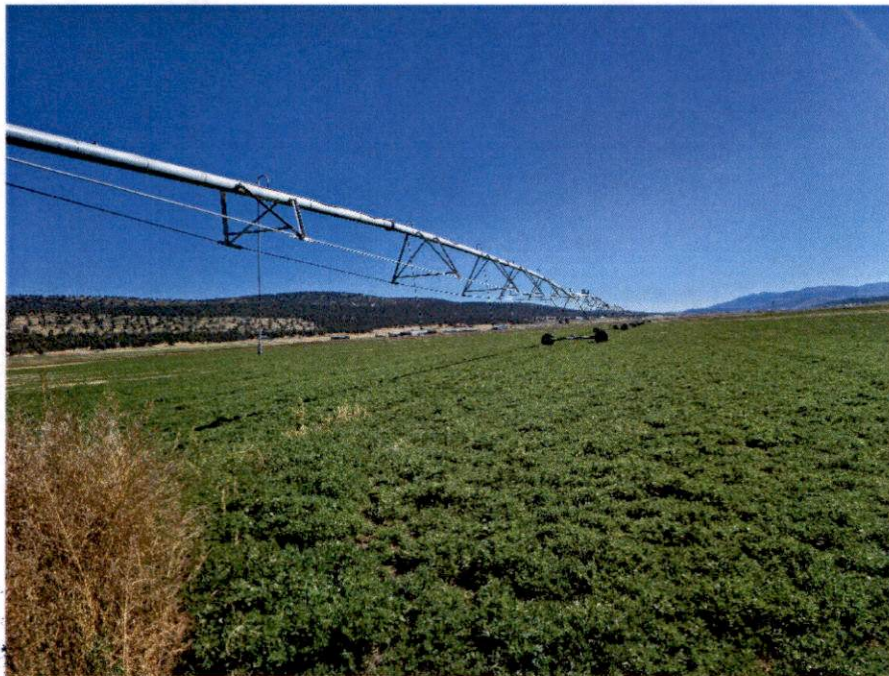
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10/16/2025

Page 5



Northeast Pivot Place of Use



Hoefler South Pivot

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10/16/2025

Page 6



Hoefler South Pivot Place of Use



Hoefler South Pivot Typical Nozzle

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10/16/2025

Page 7



Hoefler Well



Hoefler Well Flowmeter

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10/16/2025

Page 8



Hoefler North Pivot in Place of Use



Hoefler North Pivot

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STATE ENGINEER
Salem, Oregon

KLAMATH
12416

OBSERVATION WELL Well Record

STATE WELL NO. 38/11 $\frac{1}{2}$ -25(1)
COUNTY Klamath
APPLICATION NO. U 316

OWNER: Richard Hoefler

MAILING
ADDRESS:

LOCATION OF WELL: Owner's No.

CITY AND
STATE:

SW $\frac{1}{4}$ NW $\frac{1}{4}$ Sec. 25 T. 38 S., R. 11 $\frac{1}{2}$ E., W.M.

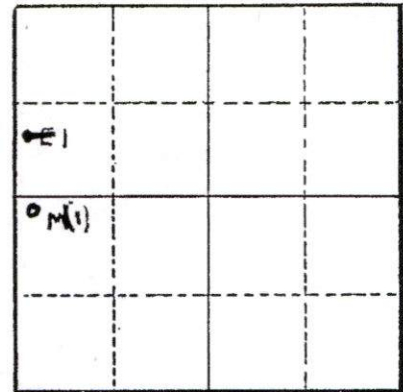
Bearing and distance from section or subdivision
corner N 7° E - 2291' from

SW Corner Section 25

Altitude at well 4,149

TYPE OF WELL: Drilled Date Constructed 1949

Depth drilled 276 200 Depth cased



Section 25

CASING RECORD:

18 inch

FINISH:

AQUIFERS: Lava rock from 194 ft. to 276 ft.

WATER LEVEL: 33.80 feet below land surface, July 19, 1949

PUMPING EQUIPMENT: Type Turbine (Johnston) H.P. 30
Capacity 1,600 G.P.M.

WELL TESTS:

Drawdown to 4.2 ft. after 2500 hours G.P.M.
Drawdown ft. after hours G.P.M.

USE OF WATER Irrigation Temp. °F., 19

SOURCE OF INFORMATION USGS

DRILLER or DIGGER

ADDITIONAL DATA:

Log Water Level Measurements Chemical Analysis Aquifer Test

REMARKS:

Driller reports 194 ft. of "chalk" over aquifer.

25 E(1) in USGS Report

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SUMMARY OF NOZZLE FLOWS

Hoefler North Pivot Flows

Boersma Family LLA Transfer T-13611

#	NOZZLE SIZE	DIAMETER	PSI	FLOW (FT^3/S)	TOTAL (FT^3/SEC)	FLOW (GPM)	TOTAL FLOW (GPM)
2	12	0.09375	15	0.002	0.005	1.02	2.03
1	14	0.10938	15	0.003	0.003	1.38	1.38
1	16	0.12500	15	0.004	0.004	1.81	1.81
1	16	0.12500	15	0.004	0.004	1.81	1.81
1	18	0.14063	20	0.006	0.006	2.64	2.64
1	20	0.15625	20	0.007	0.007	3.26	3.26
1	21	0.16406	20	0.008	0.008	3.59	3.59
1	22	0.17188	20	0.009	0.009	3.94	3.94
1	24	0.18750	20	0.010	0.010	4.69	4.69
1	25	0.19531	20	0.011	0.011	5.09	5.09
1	26	0.20313	20	0.012	0.012	5.51	5.51
1	27	0.21094	20	0.013	0.013	5.94	5.94
2	28	0.21875	20	0.014	0.028	6.39	12.77
7	29	0.22656	20	0.015	0.107	6.85	47.95
3	30	0.23438	20	0.016	0.049	7.33	21.99
6	31	0.24219	20	0.017	0.105	7.83	46.97
5	32	0.25000	20	0.019	0.093	8.34	41.70
7	33	0.25781	20	0.020	0.138	8.87	62.09
6	34	0.26563	20	0.021	0.126	9.42	56.50
4	35	0.27344	20	0.022	0.089	9.98	39.91
8	36	0.28125	20	0.024	0.188	10.56	84.45
7	37	0.28906	20	0.025	0.174	11.15	78.06
6	38	0.29688	20	0.026	0.157	11.76	70.57
7	39	0.30469	20	0.028	0.193	12.39	86.72
7	40	0.31250	20	0.029	0.203	13.03	91.23
5	41	0.32031	20	0.031	0.153	13.69	68.46
1	43	0.33594	20	0.034	0.034	15.06	15.06
0	44	0.34375	20	0.035	0.000	15.77	0.00
0	45	0.35156	20	0.037	0.000	16.49	0.00
0	46	0.35938	20	0.038	0.000	17.24	0.00
0	47	0.36719	20	0.040	0.000	17.99	0.00
0	48	0.37500	20	0.042	0.000	18.77	0.00
0	49	0.38281	20	0.044	0.000	19.56	0.00
0	50	0.39063	20	0.045	0.000	20.36	0.00
0	51	0.39844	20	0.047	0.000	21.19	0.00
0	52	0.40625	20	0.049	0.000	22.02	0.00
0	53	0.41406	20	0.051	0.000	22.88	0.00
94	TOTAL FLOW NOZZLES				1.930		866.12
#	END GUN (IN)	DIAMETER	PSI	FLOW (FT^3/S)		FLOW (GAL/MIN)	TOTAL FLOW
1	0	0.8	71	0.287	0.287	128.74	128.740
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 TOTAL	2.22		994.86



Phone: (541) 947-4407 Email: info@shn-engr.com Web: shn-engr.com
17681 US-395, Lakeview, OR 97630

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SUMMARY OF NOZZLE FLOWS

Hoefler South Pivot Flows

Boersma Family LLA Transfer T-13611

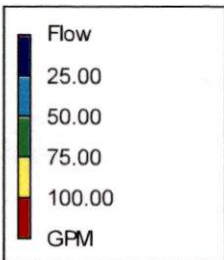
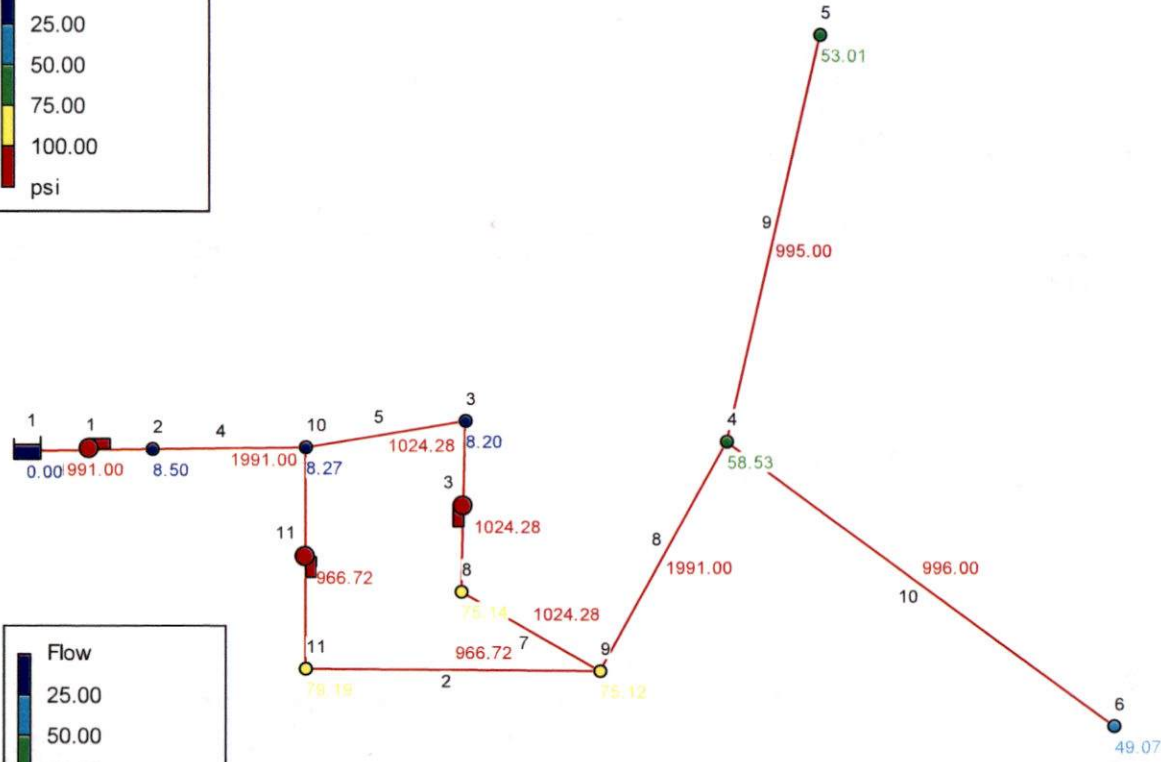
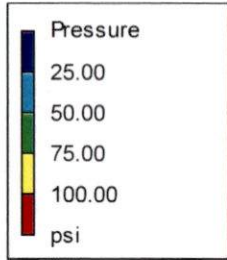
#	NOZZLE SIZE	DIAMETER	PSI	FLOW (FT^3/S)	TOTAL (FT^3/SEC)	FLOW (GPM)	TOTAL FLOW (GPM)
2	12	0.09375	15	0.002	0.005	1.02	2.03
1	13	0.10156	15	0.003	0.003	1.19	1.19
1	15	0.11719	15	0.004	0.004	1.59	1.59
1	16	0.12500	15	0.004	0.004	1.81	1.81
1	16	0.12500	20	0.005	0.005	2.09	2.09
1	18	0.14063	20	0.006	0.006	2.64	2.64
1	19	0.14844	20	0.007	0.007	2.94	2.94
1	20	0.15625	20	0.007	0.007	3.26	3.26
1	21	0.16406	20	0.008	0.008	3.59	3.59
1	22	0.17188	20	0.009	0.009	3.94	3.94
1	23	0.17969	20	0.010	0.010	4.31	4.31
1	24	0.18750	20	0.010	0.010	4.69	4.69
1	25	0.19531	20	0.011	0.011	5.09	5.09
1	26	0.20313	20	0.012	0.012	5.51	5.51
2	27	0.21094	20	0.013	0.026	5.94	11.88
5	28	0.21875	20	0.014	0.071	6.39	31.93
5	29	0.22656	20	0.015	0.076	6.85	34.25
7	30	0.23438	20	0.016	0.114	7.33	51.32
8	31	0.24219	20	0.017	0.140	7.83	62.62
6	32	0.25000	20	0.019	0.112	8.34	50.04
8	33	0.25781	20	0.020	0.158	8.87	70.96
9	34	0.26563	20	0.021	0.189	9.42	84.74
5	35	0.27344	20	0.022	0.111	9.98	49.89
10	36	0.28125	20	0.024	0.235	10.56	105.56
6	37	0.28906	20	0.025	0.149	11.15	66.91
11	38	0.29688	20	0.026	0.288	11.76	129.38
5	39	0.30469	20	0.028	0.138	12.39	61.95
1	40	0.31250	20	0.029	0.029	13.03	13.03
0	41	0.32031	20	0.031	0.000	13.69	0.00
0	42	0.32813	20	0.032	0.000	14.37	0.00
0	43	0.33594	20	0.034	0.000	15.06	0.00
0	44	0.34375	20	0.035	0.000	15.77	0.00
0	45	0.35156	20	0.037	0.000	16.49	0.00
0	46	0.35938	20	0.038	0.000	17.24	0.00
0	47	0.36719	20	0.040	0.000	17.99	0.00
0	48	0.37500	20	0.042	0.000	18.77	0.00
0	49	0.38281	20	0.044	0.000	19.56	0.00
103	TOTAL FLOW NOZZLES				1.937		869.13
#	END GUN (IN)	DIAMETER	PSI	FLOW (FT^3/S)		FLOW (GAL/MIN)	TOTAL FLOW
1	0	0.8	69	0.283	0.283	126.91	126.914
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 TOTAL	2.22		996.05



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 * E P A N E T *
 * Hydraulic and Water Quality *
 * Analysis for Pipe Networks *
 * Version 2.2 *

Input File: boersma hoefler.net

Link - Node Table:

Link ID	Start Node	End Node	Length ft	Diameter in
4	2	10	5	8
5	10	3	5	8
7	8	9	5	10
8	9	4	1068	10
9	4	5	1284	10
10	4	6	3001	10
2	11	9	1000	10
1	1	2	#N/A	#N/A Pump
3	3	8	#N/A	#N/A Pump
11	10	11	#N/A	#N/A Pump

Energy Usage:

Pump	Usage Factor	Avg. Effic.	Kw-hr /Mgal	Avg. Kw	Peak Kw	Cost /day
1	100.00	75.00	249.69	29.83	29.83	0.00
3	100.00	75.00	647.13	39.77	39.77	0.00
11	100.00	75.00	685.66	39.77	39.77	0.00

Demand Charge: 0.00
 Total Cost: 0.00

Node Results:

Node ID	Demand GPM	Head ft	Pressure psi	Quality
2	0.00	4172.61	8.50	0.00
3	0.00	4171.92	8.20	0.00
4	0.00	4288.07	58.53	0.00
5	995.00	4275.33	53.01	0.00
6	996.00	4258.24	49.07	0.00

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8	0.00	4326.41	75.14	0.00
9	0.00	4326.36	75.12	0.00
10	0.00	4172.08	8.27	0.00
11	0.00	4335.76	79.19	0.00

Page 2

Node Results: (continued)

Node ID	Demand GPM	Head ft	Pressure psi	Quality
1	-1991.00	4113.00	0.00	0.00 Reservoir

Link Results:

Link ID	Flow GPM	Velocity fps	Unit Headloss ft/Kft	Status
4	1991.00	12.71	106.35	Open
5	1024.28	6.54	31.05	Open
7	1024.28	4.18	10.55	Open
8	1991.00	8.13	35.85	Open
9	995.00	4.06	9.92	Open
10	996.00	4.07	9.94	Open
2	966.72	3.95	9.41	Open
1	1991.00	0.00	-59.61	Open Pump
3	1024.28	0.00	-154.49	Open Pump
11	966.72	0.00	-163.69	Open Pump

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SUMMARY OF NOZZLE FLOWS

Northeast Pivot Flows

Boersma Family LLA Transfer T-13611

#	NOZZLE SIZE	DIAMETER	PSI	FLOW (FT^3/S)	TOTAL (FT^3/SEC)	FLOW (GPM)	TOTAL FLOW (GPM)
5	14	0.10938	20	0.004	0.018	1.60	7.98
1	15	0.11719	20	0.004	0.004	1.83	1.83
1	16	0.12500	20	0.005	0.005	2.09	2.09
1	17	0.13281	20	0.005	0.005	2.35	2.35
2	18	0.14063	20	0.006	0.012	2.64	5.28
1	19	0.14844	20	0.007	0.007	2.94	2.94
1	20	0.15625	20	0.007	0.007	3.26	3.26
1	21	0.16406	20	0.008	0.008	3.59	3.59
1	22	0.17188	20	0.009	0.009	3.94	3.94
2	23	0.17969	20	0.010	0.019	4.31	8.62
1	24	0.18750	20	0.010	0.010	4.69	4.69
2	25	0.19531	20	0.011	0.023	5.09	10.18
2	26	0.20313	20	0.012	0.025	5.51	11.01
1	27	0.21094	20	0.013	0.013	5.94	5.94
2	28	0.21875	20	0.014	0.028	6.39	12.77
2	29	0.22656	20	0.015	0.031	6.85	13.70
2	30	0.23438	20	0.016	0.033	7.33	14.66
1	31	0.24219	20	0.017	0.017	7.83	7.83
2	32	0.25000	20	0.019	0.037	8.34	16.68
2	33	0.25781	20	0.020	0.040	8.87	17.74
2	34	0.26563	20	0.021	0.042	9.42	18.83
4	25	0.19531	20	0.011	0.045	5.09	20.36
1	36	0.28125	20	0.024	0.024	10.56	10.56
3	37	0.28906	20	0.025	0.075	11.15	33.45
2	38	0.29688	20	0.026	0.052	11.76	23.52
2	39	0.30469	20	0.028	0.055	12.39	24.78
3	40	0.31250	20	0.029	0.087	13.03	39.10
1	31	0.24219	15	0.015	0.015	6.78	6.78
1	32	0.25000	15	0.016	0.016	7.22	7.22
10	33	0.25781	15	0.017	0.171	7.68	76.82
6	34	0.26563	15	0.018	0.109	8.15	48.93
5	35	0.27344	15	0.019	0.096	8.64	43.21
9	36	0.28125	15	0.020	0.183	9.14	82.28
7	37	0.28906	15	0.022	0.151	9.66	67.60
4	38	0.29688	15	0.023	0.091	10.19	40.74
1	39	0.30469	15	0.024	0.024	10.73	10.73
1	42	0.32813	10	0.023	0.023	10.16	10.16
6	43	0.33594	10	0.024	0.142	10.65	63.90
5	44	0.34375	10	0.025	0.124	11.15	55.75
5	45	0.35156	10	0.026	0.130	11.66	58.32
4	46	0.35938	10	0.027	0.109	12.19	48.75
6	47	0.36719	10	0.028	0.170	12.72	76.34
4	48	0.37500	10	0.030	0.118	13.27	53.08
125	TOTAL FLOW NOZZLES				2.403		1078.29

#	END GUN (IN)	DIAMETER	PSI	FLOW (FT^3/S)		FLOW (GAL/MIN)	TOTAL FLOW
1	0	0.8	68	0.281	0.281	125.99	125.991
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 TOTAL

2.68

1204.29



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SUMMARY OF NOZZLE FLOWS

Small Pivot Flows

Boersma Family LLA Transfer T-13611

#	NOZZLE SIZE	DIAMETER	PSI	FLOW (FT^3/S)	TOTAL (FT^3/SEC)	FLOW (GPM)	TOTAL FLOW (GPM)
4	6	0.09375	15	0.002	0.009	1.02	4.06
1	6.5	0.10156	15	0.003	0.003	1.19	1.19
5	7	0.10938	15	0.003	0.015	1.38	6.91
4	7.5	0.11719	15	0.004	0.014	1.59	6.35
5	8	0.12500	15	0.004	0.020	1.81	9.03
6	8.5	0.13281	15	0.005	0.027	2.04	12.23
5	9	0.14063	15	0.005	0.025	2.29	11.43
3	9.5	0.14844	15	0.006	0.017	2.55	7.64
0	10	0.15625	15	0.006	0.000	2.82	0.00
1	10.5	0.16406	15	0.007	0.007	3.11	3.11
0	11	0.08594	15	0.002	0.000	0.85	0.00
0	12	0.09375	15	0.002	0.000	1.02	0.00
0	13	0.10156	15	0.003	0.000	1.19	0.00
0	14	0.10938	15	0.003	0.000	1.38	0.00
0	15	0.11719	15	0.004	0.000	1.59	0.00
0	16	0.12500	15	0.004	0.000	1.81	0.00
0	17	0.13281	15	0.005	0.000	2.04	0.00
0	18	0.14063	15	0.005	0.000	2.29	0.00
0	19	0.14844	15	0.006	0.000	2.55	0.00
0	20	0.15625	15	0.006	0.000	2.82	0.00
0	21	0.16406	15	0.007	0.000	3.11	0.00
0	22	0.17188	15	0.008	0.000	3.41	0.00
0	23	0.17969	15	0.008	0.000	3.73	0.00
0	24	0.18750	15	0.009	0.000	4.06	0.00
0	25	0.19531	15	0.010	0.000	4.41	0.00
0	26	0.20313	15	0.011	0.000	4.77	0.00
0	27	0.21094	15	0.011	0.000	5.14	0.00
0	28	0.21875	15	0.012	0.000	5.53	0.00
0	29	0.22656	15	0.013	0.000	5.93	0.00
0	30	0.23438	15	0.014	0.000	6.35	0.00
0	31	0.24219	15	0.015	0.000	6.78	0.00
0	32	0.25000	15	0.016	0.000	7.22	0.00
0	33	0.25781	15	0.017	0.000	7.68	0.00
0	34	0.26563	15	0.018	0.000	8.15	0.00
0	35	0.27344	15	0.019	0.000	8.64	0.00
0	36	0.28125	15	0.020	0.000	9.14	0.00
0	37	0.28906	15	0.022	0.000	9.66	0.00
34	TOTAL FLOW NOZZLES				0.138		61.96

#	END GUN (IN)	DIAMETER	PSI	FLOW (FT^3/S)		FLOW (GAL/MIN)	TOTAL FLOW
1	0	0.5	20	0.059	0.059	26.69	26.691
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

FT^3/S

GAL/MIN

FLOW TOTAL

0.20

88.65

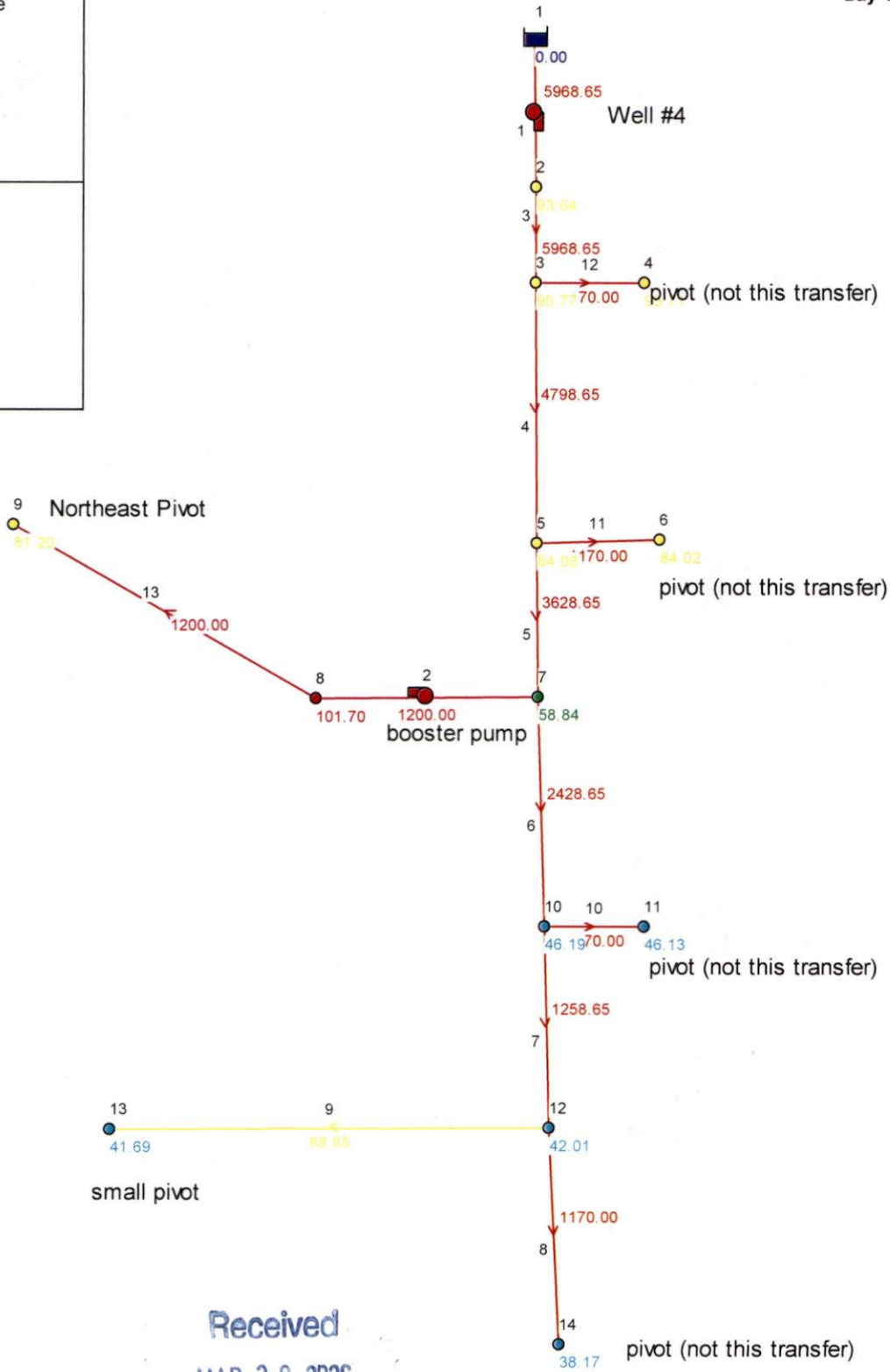
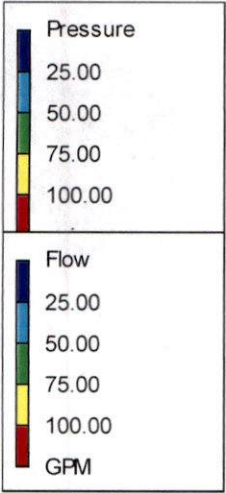


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*****
*                                     *
*               E P A N E T           *
*      Hydraulic and Water Quality    *
*      Analysis for Pipe Networks     *
*               Version 2.2           *
*****
    
```

Input File: boersma well 4.net

Link - Node Table:

Link ID	Start Node	End Node	Length ft	Diameter in
3	2	3	262	18
4	3	5	2585	18
5	5	7	1366	12
6	7	10	1323	12
7	10	12	1370	12
8	12	14	1430	12
9	12	13	1280	6
10	10	11	10	10
11	5	6	10	10
12	3	4	10	10
13	8	9	3014	10
1	1	2	#N/A	#N/A Pump
2	7	8	#N/A	#N/A Pump

Energy Usage:

Pump	Usage Factor	Avg. Effic.	Kw-hr /Mgal	Avg. Kw	Peak Kw	Cost /day
1	100.00	75.00	1110.54	397.71	397.71	0.00
2	100.00	75.00	414.28	29.83	29.83	0.00
					Demand Charge:	0.00
					Total Cost:	0.00

Node Results:

Node ID	Demand GPM	Head ft	Pressure psi	Quality
2	0.00	4365.12	93.64	0.00
3	0.00	4361.02	95.77	0.00
4	1170.00	4360.89	95.71	0.00

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5	0.00	4334.04	84.08	0.00
6	1170.00	4333.91	84.02	0.00
7	0.00	4272.80	58.84	0.00
8	0.00	4371.70	101.70	0.00



Page 2

Node Results: (continued)

Node ID	Demand GPM	Head ft	Pressure psi	Quality
9	1200.00	4329.39	81.20	0.00
10	0.00	4244.60	46.19	0.00
11	1170.00	4244.47	46.13	0.00
12	0.00	4235.96	42.01	0.00
13	88.65	4234.23	41.69	0.00
14	1170.00	4228.08	38.17	0.00
1	-5968.65	4100.00	0.00	0.00 Reservoir

Link Results:

Link ID	Flow GPM	Velocity fps	Unit Headloss ft/Kft	Status
3	5968.65	7.53	15.63	Open
4	4798.65	6.05	10.44	Open
5	3628.65	10.29	44.83	Open
6	2428.65	6.89	21.31	Open
7	1258.65	3.57	6.31	Open
8	1170.00	3.32	5.51	Open
9	88.65	1.01	1.36	Open
10	1170.00	4.78	13.43	Open
11	1170.00	4.78	13.43	Open
12	1170.00	4.78	13.43	Open
13	1200.00	4.90	14.04	Open
1	5968.65	0.00	-265.12	Open Pump
2	1200.00	0.00	-98.90	Open Pump

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PUMP TEST FORM CRITERIA

Pump test are intended to provide aquifer & well information for groundwater resource characterization & to help solve well problems.

Forms can be sent to:

WRD_DL_pumptestsupport@water.oregon.gov

This pump test workbook contains 3 sheets (not including this sheet).

Cover Sheet

Methods Sheet

Data Sheet

*clickable shortcuts

Remember, your pump test may not be approved unless it meets the following criteria*:

- The discharge rate was held constant for the entire pumping phase.
- The pump was on during the entire pumping phase (≥ 4 hours).
- The discharge was measured at the start of pumping and at least once every hour during the test.
- Water levels were measured to an accuracy of 0.1 feet or 0.5 percent.
- Pre-test static water levels were measured at least three times in the hour before pumping began at no less than 20 minutes apart
- Water levels were measured at the specified intervals during the pumping phase of the test for at least four hours.
(≤ 2 minutes for the first 10 minutes, ≤ 5 mins for 10-30 mins, and ≤ 15 mins for the remainder of the test)
- Water levels were measured at the specified intervals (see above) during the recovery phase of the test for four hours or until 90% of the maximum drawdown has recovered.
- If using an airline, measurements were calibrated with an e-tape & the depth to water was ≥ 300 feet.
- The pump test cover sheet was completely filled out and signed.
- The pumping rate was as close as reasonably possible to the (anticipated) pumping rate during normal use of the well.
- The well was idle for at least 16 hours prior to the test.
- The pump test was completed by an acceptably qualified person
(Oregon licensed well constructors, Oregon registered professional geologists or engineering geologist, Certified water rights examiners, Oregon registered professional engineers)

*This checklist is intended for information purposes only & does not guarantee a pump test approval. The Department reserves all authority pertaining to the implementation of the rules under OAR 690-217.

[Pump test requirements for OAR 690-217 can be found online here.](#)

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**PUMP TEST FORM
COVER SHEET**

Owner / Business :

Name	Phone Number	Owner Street Address
J.W. Kerns, Inc.	541-884-4129	4360 Hwy 39
State	City	Zip
OR	Klamath Falls	97603

If different from owner,

Test Conducted By	Qualifications	License #
Derek Kindt	Pump Installer	CP115
Company	Phone Number	Company Street Address
J.W. Kerns, Inc.	541-884-4129	4360 Hwy 39
Company State & Zip	E-mail	
OR 97603	tammie@jwkerns.com	

Tested Well Information :

Well Log	Well Log #	Well Tag L-#
KLAM	57552	
Date Drilled	TWP RNG SEC QQ	Surveyed Location
12/30/1928	38S 11E 19 NW SW	
Latitude	Longitude	
42.2574993	-121.462825	

Water Right(s) Information : include letter in front (ex. G-xxxx)

Application	Permit	Transfer
G-12618	G12441	

Certificate

I hereby certify that this test has been conducted in accordance with OAR 690-217:

Operator Initials: Date:

Owner Initials: Date:

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1 Are there any wells, other than domestic or stock wells, within 1000' of the tested well?

2 If yes, identify the well by OWRD log number. Note the approximate distance to each well from tested well and approximate pumping rate.

Well Log	Distance From Pumped Well	Date & Time Pump On	Pumping Rate
<input type="text"/>	<input type="text"/> ft	<input type="text"/>	<input type="text"/> gpm
<input type="text"/>	<input type="text"/> ft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/> ft	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/> ft	<input type="text"/>	<input type="text"/>

3 Is there a lake, stream, or other surface water body within 1/4 mile of the tested well?

Approx. Distance	Approx. Elevation Difference
<input type="text"/> ft	<input type="text"/> ft

4 Was the test conducted during normal use of the well?

Where pumped water was discharged?

How far from pumped well was water discharged?

Through 5 pivots

ft

5

Water-Level Measurement Method

Electric Tape

If other, please state:

If airline used, give length (ft)

*Airline mmt must be verified by an e-tape mmt.

Verify Airline here:

psi ft

E-tape ft

If Pressure Transducer used,

Manufacturer:

Serial #:

Date Last Calibrated:

Units:

Pump Type

Turbine

Pump HP

400

Pump Set

ft

If other, what pump type?

Idle Time

unit

Discharge Method

Flowmeter

If Flowmeter used,

Manufacturer:

Seametrics

Serial #:

IP217B-126

Date Last Calibrated:

11/1/2025

Units:

(gpm) gallons per minute

Measuring Point (MP)

0.00 ft

above

land surface

Description of MP

Discharge head port

Time Pump Turned On

Date

12/5/2025

Time

12:28

Time Pump Turned Off

Date

12/5/2025

Time

4:30

Total Pumping Time

Hours

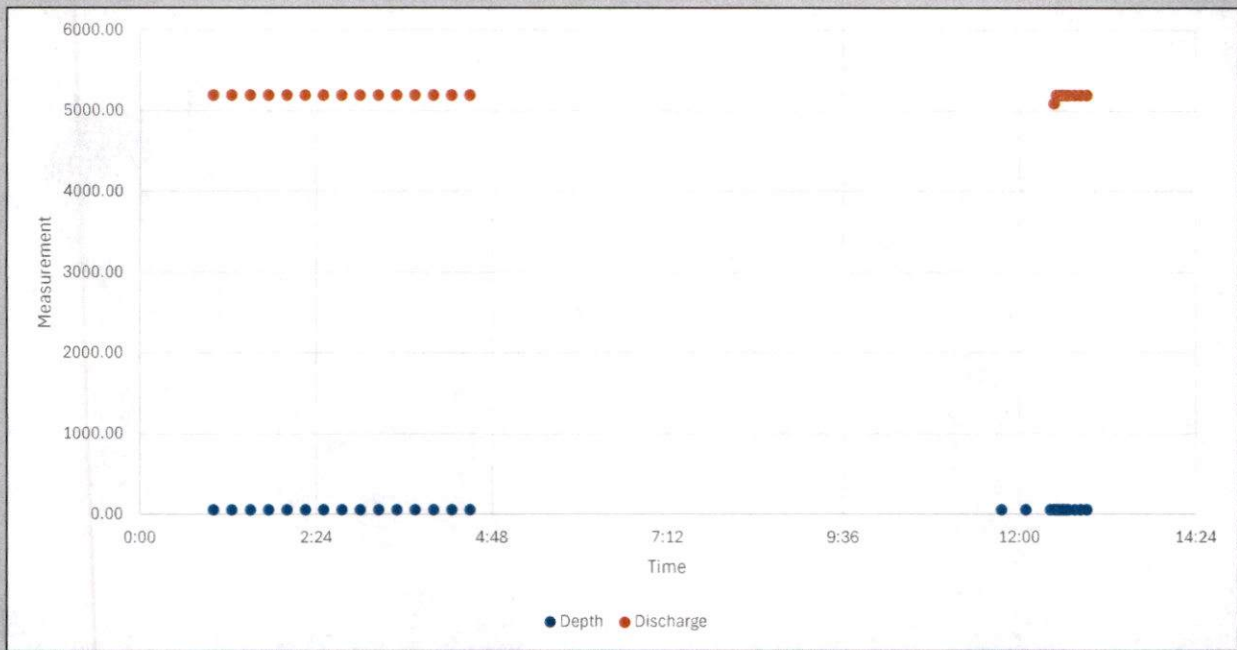
4

Minutes

7

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*Rough hydrograph using the Data Sheet to use as a review reference of the data entered.

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