

MEMO

May 5, 2005

☒ Yes
☐ No

The source of appropriation is within or above a Scenic Waterway

☒ Yes
☐ No

Use the Scenic Waterway condition (Condition 7J).

At this time the Department is unable to find that there is a preponderance of evidence that the proposed use of ground water will measurably reduce the surface water flows necessary to maintain the free-flowing character of a scenic waterway in quantities necessary for recreation, fish and wildlife.

Exercise of this permit is calculated to reduce monthly flows in _____ Scenic Waterway by the following amounts expressed as a proportion of the consumptive use by which surface water flow is reduced.

[illegible]

PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS

TO: Water Rights Section Date May 5, 2005

FROM: Ground Water/Hydrology Section Ivan Gall
Reviewer's Name

SUBJECT: Application G- 16405 Supersedes review of NA
Date of Review(s)

PUBLIC INTEREST PRESUMPTION; GROUNDWATER

OAR 690-310-130 (1) *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

A. GENERAL INFORMATION: Applicant's Name: Alfred & Lisa Sennhauser County: JACK

A1. Applicant(s) seek(s) .040 cfs from 1 well(s) in the Rogue Basin,
Bear Creek subbasin Quad Map: Ashland

A2. Proposed use: Irrigation Seasonality: Year-round (on application)

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	JACK 56626	1	Bedrock	.040	38S/01E-26 SWSW	885' N, 180' E fr SW cor S 26
2						
3						
4						
5						

* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	2520	190	127	2/7/04	221	0-37	+1-58	na	na	25	na	A

Use data from application for proposed wells.

A4. **Comments:** Well is likely completed in the Payne Cliffs Formation.

A5. ☒ **Provisions of the Rogue** Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water ☐ are, or ☒ are not, activated by this application. (Not all basin rules contain such provisions.)

Comments: _____

A6. ☐ **Well(s) #** _____, _____, _____, _____, _____, tap(s) an aquifer limited by an administrative restriction.
Name of administrative area: _____
Comments: _____

B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070B1. Based upon available data, I have determined that ground water* for the proposed use:

- a. ☐ is over appropriated, ☐ is not over appropriated, or ☒ cannot be determined to be over appropriated during any period of the proposed use. * This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b. ☐ will not or ☐ will likely be available in the amounts requested without injury to prior water rights. * This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
- c. ☐ will not or ☐ will likely to be available within the capacity of the ground water resource; or
- d. ☒ will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:
- i. ☒ The permit should contain condition #(s) 7B, 7C, 7F;
- ii. ☐ The permit should be conditioned as indicated in item 2 below.
- iii. ☒ The permit should contain special condition(s) as indicated in item 3 below;

- B2. a. ☐ Condition to allow ground water production from no deeper than _____ ft. below land surface;
- b. ☐ Condition to allow ground water production from no shallower than _____ ft. below land surface;
- c. ☐ Condition to allow ground water production only from the _____ ground water reservoir between approximately _____ ft. and _____ ft. below land surface;
- d. ☐ Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

Describe injury –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): _____

B3. Ground water availability remarks: ***Require applicant to install and maintain a properly functioning totalizing flow meter.

Surficial geology at the site consists of the Payne Cliffs Formation, Eocene-aged fluvial and deltaic sediments. Overlying this unit, and topographically higher, are volcanic and volcanoclastic rocks of the Roxy Formation (flow rocks, breccias, and tuffs). The subject well log lists volcanic rocks and sandstone, and is likely completed in the Payne Cliffs Formation. Topography slopes to the southwest towards the Bear Creek valley. A Talent Irrigation District lateral flows northwest at about the 2,020-foot contour.

There are no well logs listed in section 26 in GRID, about 12 in section 27. Reported well yields range from 1 to 100 gpm, with depths ranging from 70 to 660 feet. There have been two deepenings in section 27.

C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**C1. 690-09-040 (1):** Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
1	Bedrock	☒	☐
		☐	☐
		☐	☐
		☐	☐
		☐	☐

Basis for aquifer confinement evaluation: Depth of water-bearing zone reoported on well log, and the layered nature of the geology. The degree of aquifer confinement likely increases with depth. Static water level appears to be significantly higher than depth of the water-bearing zone.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than ¼ mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Kitchen Creek	2330	~2240	~2600	☐	☒	☐	☐	☒
1	2	Butler Creek	2330	~2240	~5300	☐	☒	☐	☐	☒
1	3	Bear Creek	2330	~1720	~11,000	☒	☐	☐	☐	☒
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐
						☐	☐	☐	☐	☐

Basis for aquifer hydraulic connection evaluation: Kitchen and Butler Creeks, at these elevations, are very seasonal, typically only running for a few weeks after rainfall diminishes. Bear Creek is the local groundwater discharge location, based on its incised nature into the local geology and low topographic elevation.

Water Availability Basin the well(s) are located within: Bear Creek

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% *natural* flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked ☒ box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < ¼ mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
	na	☐	☐			☐		☐		☐
	na	☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐
		☐	☐			☐		☐		☐

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be **hydraulically connected and less than 1 mile** from a surface water source. **Complete only if Q is distributed among wells.** Otherwise same evaluation and limitations apply as in C3a above.

	SW #		Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐
			☐			☐		☐		☐

Comments: _____

C4a. **690-09-040 (5):** Estimated impacts on **hydraulically connected surface water sources greater than one mile** as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
1	3	%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS		.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04	.04
Interference CFS		*	*	*	*	*	*	*	*	*	*	*	*

Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)													
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

Basis for impact evaluation: * An appropriate tool, other than a 3-D groundwater flow model, does not exist to adequately simulate the impact to Bear Creek from a pumping well 11,000 feet away. The impact, given the distance and proposed discharge rate of the well, is likely to be small. The hydraulic connection call was made based on Bear Creek being the local, well-incised groundwater discharge location.

C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5. ☐ If properly conditioned, the surface water source(s) can be adequately protected from interference, and/or ground water use under this permit can be regulated if it is found to substantially interfere with surface water:
- ☒ The permit should contain condition #(s) 7J;
 - ☐ The permit should contain special condition(s) as indicated in "Remarks" below;

C6. **SW / GW Remarks and Conditions** Because of the very seasonal nature of Kitchen and Butler Creeks at these elevations, I did not make the call for hydraulic connection. Bear Creek will likely be the surface water body that sees any impact from the proposed groundwater use. However, based on the distance and limited rate of discharge of the well, the impact will likely be small.

References Used: Beaulieu, J.D., and P.W. Hughes, 1977. Land Use Geology of Central Jackson County, Oregon. Bulletin 94, Oregon Dept. of Geology and Mineral Industries.
OWRD Grid well log database.

D. WELL CONSTRUCTION, OAR 690-200

D1. Well #: _____ Logid: _____

D2. **THE WELL does not meet current well construction standards based upon:**

- a. ☐ review of the well log;
b. ☐ field inspection by _____;
c. ☐ report of CWRE _____;
d. ☐ other: (specify) _____

D3. **THE WELL construction deficiency:**

- a. ☐ constitutes a health threat under Division 200 rules;
b. ☐ commingles water from more than one ground water reservoir;
c. ☐ permits the loss of artesian head;
d. ☐ permits the de-watering of one or more ground water reservoirs;
e. ☐ other: (specify) _____

D4. **THE WELL construction deficiency is described as follows:** _____

_____D5. **THE WELL** a. ☐ **was, or** ☐ **was not** constructed according to the standards in effect at the time of original construction or most recent modification.b. ☐ I don't know if it met standards at the time of construction.D6. ☐ **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.**THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL**D7. ☐ Well construction deficiency has been corrected by the following actions: _____

__________, 200_____
(Enforcement Section Signature)D8. ☐ **Route to Water Rights Section (attach well reconstruction logs to this page).**

Water Availability as of 5/5/2005 for

BEAR CR > ROGUE R - AT MOUTH

Watershed ID #: 70993 Basin: ROGUE Exceedance Level: 80

Time: 13:05 Date: 05/05/2005

Select an Item Number for More Details

Item #	Watershed ID #	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Sto
1	266	YES	YES	YES	YES	YES	YES	NO	NO	NO	YES	NO	YES	YES
2	31531008	NO	YES	YES	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES
3	31531001	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES
4	31531002	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES
5	31530801	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES
6	268	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES
7	270	NO	NO	NO	NO	YES	NO	NO	NO	NO	NO	NO	NO	YES
8	70993	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO	NO

DETAILED REPORT ON THE WATER AVAILABILITY CALCULATION

Water Availability as of 5/5/2005 for

BEAR CR > ROGUE R - AT MOUTH

Watershed ID #: 70993 Basin: ROGUE Exceedance Level: 80

Time: 13:05 Date: 05/05/2005

Month	Natural Stream Flow	CU + Stor Prior to 1/1/93	CU + Stor After 1/1/93	Expected Stream Flow	Reserved Stream Flow	Instream Water Rights	Net Water Available
1	107.00	190.00	0.09	-83.20	0.00	170.00	-253.00
2	129.00	233.00	0.10	-104.00	0.00	170.00	-274.00
3	129.00	212.00	0.10	-82.90	0.00	170.00	-253.00
4	105.00	28.70	0.11	76.20	0.00	170.00	-93.80
5	84.20	44.90	0.10	39.20	0.00	170.00	-131.00
6	61.60	63.80	0.02	-2.20	0.00	100.00	-102.00
7	28.10	84.50	0.02	-56.50	0.00	40.00	-96.50
8	19.30	70.20	0.02	-50.90	0.00	24.00	-74.90
9	17.10	46.90	0.02	-29.80	0.00	20.00	-49.80
10	18.30	15.80	0.02	2.43	0.00	24.00	-21.60
11	30.90	55.70	0.03	-24.80	0.00	62.00	-86.80
12	65.30	135.00	0.07	-70.00	0.00	153.00	-223.00
Stor	89800	70900	43	26000	0	76600	0

DETAILED REPORT OF INSTREAM REQUIREMENTS

Water Availability as of 5/5/2005 for

BEAR CR > ROGUE R - AT MOUTH

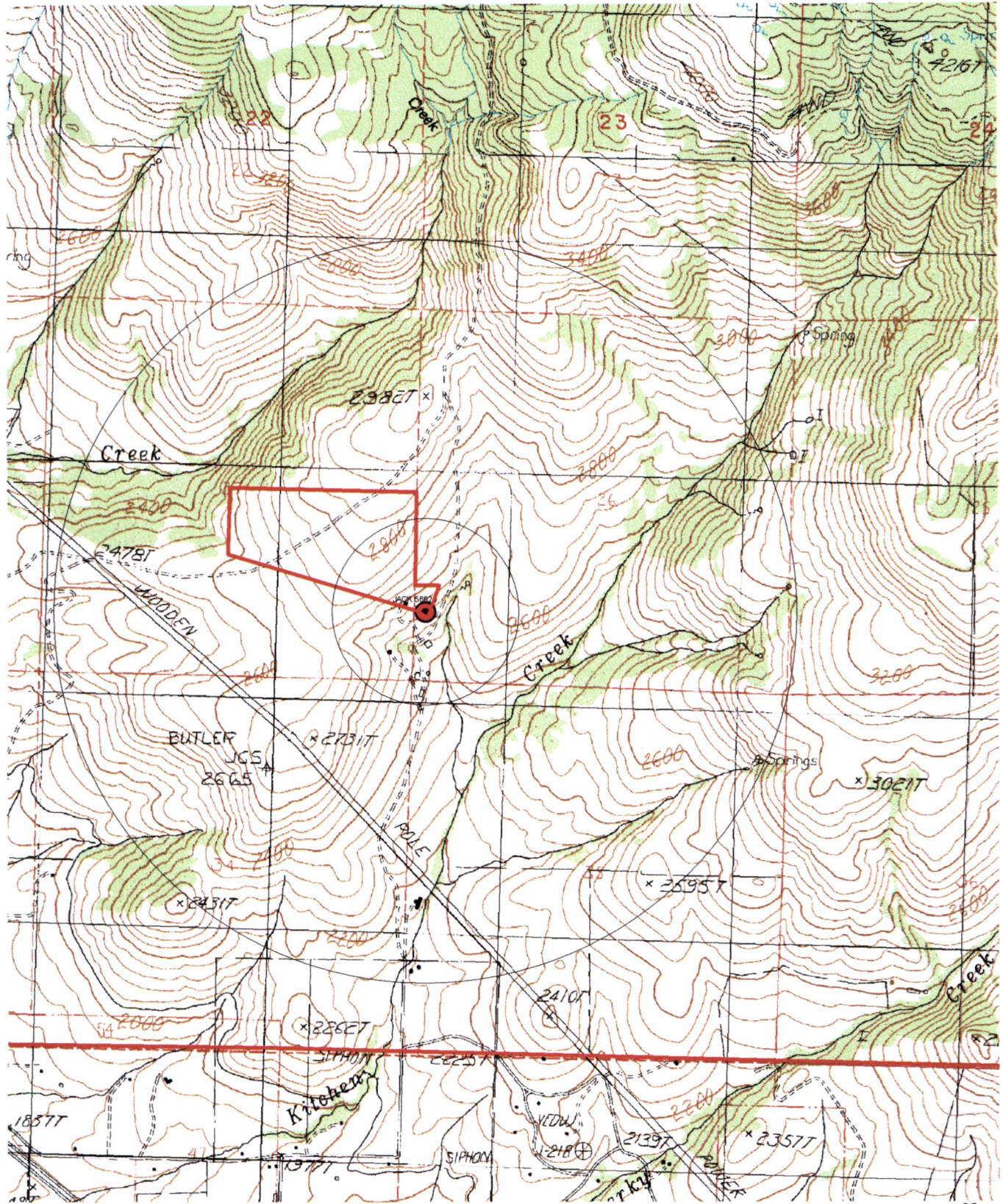
Watershed ID #: 70993 Basin: ROGUE Exceedance Level: 80

Time: 13:05 Date: 05/05/2005

ISWRs								
APP #	70993A	0	0	0	0	0	0	MAXIMUM
Status	PFO							
1	170.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00
2	170.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00
3	170.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00
4	170.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00
5	170.00	0.00	0.00	0.00	0.00	0.00	0.00	170.00

6	100.00	0.00	0.00	0.00	0.00	0.00	0.00	100.00
7	40.00	0.00	0.00	0.00	0.00	0.00	0.00	40.00
8	24.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00
9	20.00	0.00	0.00	0.00	0.00	0.00	0.00	20.00
10	24.00	0.00	0.00	0.00	0.00	0.00	0.00	24.00
11	62.00	0.00	0.00	0.00	0.00	0.00	0.00	62.00
12	153.00	0.00	0.00	0.00	0.00	0.00	0.00	153.00

G-16415 Sennhauser 38S/01E-26
Ashland Quad Scale 1:24,000

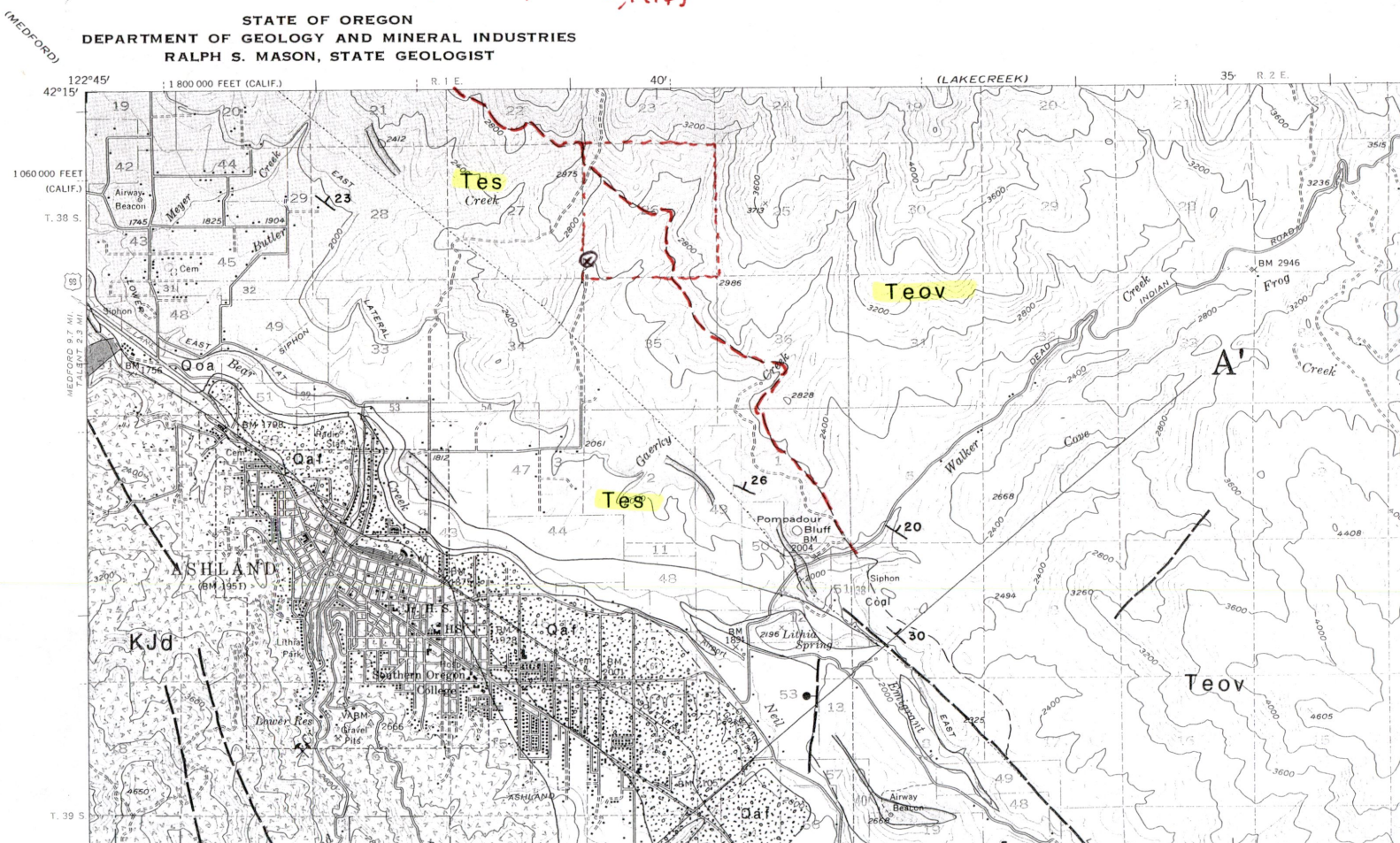


0 2000 4000 6000 8000 10000 Feet



parts of
TES = Payne Cliffs Eocene Fluvial/delta: c, ss, cong.
TEOV = old Raxy, vdc's, flow rx, breccias, tuffs

STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
RALPH S. MASON, STATE GEOLOGIST



PAGE 1 of 2

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

WELL I.D. # L 49563
START CARD # 158682

(1) LAND OWNER Well Number _____
Name FREDDY SENNHAUSER
Address 1710 E. NEVADA
City ASHLAND State OR Zip 97520

(2) TYPE OF WORK
☐ New Well ☒ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other _____

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 103 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	
6"	82	362	BENTONITE CHIPS	71	76	3 SACKS

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other POURED DRY

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Casing:	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
	6"	82	75 1/2	250	☒	☐	☒	☐

Liner: _____
Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) 75 1/2 FT

(7) PERFORATIONS/SCREENS:

☐ Perforations Method _____
☐ Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

☐ Pump ☐ Bailer ☒ Air ☐ Artesian
Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____

SEE NOTES PAGE 2 AT
BOTTOM OF SECTION 12

Temperature of water 60° Depth Artesian Flow Found _____

Was a water analysis done? ☐ Yes By whom _____

Did a water analysis show the water is suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____

Depth of strata: _____

FEB 25 2004

(9) LOCATION OF WELL by legal description:

County JACKSON Latitude _____ Longitude _____
Township 38S N or S Range 1E E or W. WM.
Section 27 NE 1/4 SE 1/4
Tax Lot 101 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1710 E. NEVADA

(10) STATIC WATER LEVEL:

* _____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found SEE BELOW

From	To	Estimated Flow Rate	SWL
0	72	2-0	60
199	262	2-2 3/4	
262	282	10-12	
282	302	2-6 1/2	

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
CLEANED OUT BROKEN ROCK 72-82 FT. CAVED IN TO 76 FT. POURED 3 SACKS BENTONITE CHIPS AND DROVE CASING TO 75 1/2 FT. UNABLE TO DRIVE IT FURTHER AFTER CLEANING HOLE BELOW IT.			
TUFF GRAY	82	92	
TUFF TAN UNSTABLE	92	113	
SANDSTONE ORANGE/LIGHT BROWN WEATHERED	113		
		127	
TUFF OR SANDST. CONGLOM. TAN	127	138	
TUFF ORANGE	138	149	
SANDSTONE BLUE	149	158	
SANDSTONE GRAY	158	166	
SANDSTONE GRAY & BEN MIXED	166	199	
VOLCANIC GRAY w/BEN CLASTS	199	221	
TUFF CONGLOM. TAN	221	228	
TUFF GRAY/BEIGE	228	237	
VOLCANIC GRAY w/	237		
BROKEN BROWN ROCK		264	

Date started 1-26-04 Completed 1-28-04

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed Frank K... WWC Number 796 Date 1-24-04

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed Frank K... WWC Number 796 Date 1-24-04

* NO STATIC AVAILABLE AS WELL IS COLLAPSED AT NUMEROUS LOCATIONS FROM 88 FT. CLEANED & RECLEANED TO 122 FT BUT WELL IS COLLAPSED AT 103 FT END.

PAGE 2 of 2

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

Instructions for completing this report are on the last page of this form.

WELL I.D. # 49563
START CARD # 158682

(1) LAND OWNER Well Number _____
Name FREDDY SENNHAUSER
Address 1710 E. NEVADA
City ASHLAND State OR Zip 97520

(2) TYPE OF WORK
☐ New Well ☒ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other _____

(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other _____

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☐ No Depth of Completed Well _____ ft.
Explosives used ☐ Yes ☐ No Type _____ Amount _____

HOLE			SEAL			Sacks or pounds
Diameter	From	To	Material	From	To	

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☐ Other _____

Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____

Casing:	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Drive Shoe used ☐ Inside ☐ Outside ☐ None
Final location of shoe(s) _____

(7) PERFORATIONS/SCREENS:

☐ Perforations

☐ Screens

Method _____

Type _____

Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

Pump		Bailer		Air		Flowing Artesian	

Temperature of water _____ Depth Artesian Flow Found _____

RECEIVED

Did any strata contain water not suitable for intended use? ☐ Yes By whom _____ ☐ Too little

☐ Salty ☐ Silty ☐ Odor ☐ Colored ☐ Other _____

Depth of strata _____

(9) LOCATION OF WELL by legal description:

County JACKSON Latitude _____ Longitude _____
Township 38S N or S Range 1E E or W. WM.
Section 27 NE 1/4 SE 1/4
Tax Lot 101 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1710 E. NEVADA

(10) STATIC WATER LEVEL:

_____ ft. below land surface. Date _____
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found SEE BELOW

From	To	Estimated Flow Rate	SWL
0	72	2-0	60
199	262	2-23/4	
262	282	2-6 1/2	
282	302	10-12	

(12) WELL LOG:

Ground Elevation _____

Material	From	To	SWL
VOLCANIC GREY & LIGHT	264		
GREY SANDSTONE MIXED		280	
TUFF CONGLOM. TAN	280	292	
SANDSTONE LIGHT GREY	292		
W/ TAN CLASTS		320	
TUFF CONGLOM. BROWN	320	333	
TUFF GREY/BEIGE	333	342	
TUFF CONGLOM. BROWN	342	356	
TUFF GREY/BEIGE	356	362	
ON JAN 27 PUMPING 14-21+ GPM FOR 3 HRS 15 MIN AT 362 FT.			
ON JAN 28 WITH BIT AT 360 FT THERE IS LITTLE OR NO COLUMN OF WATER.			
AT 360 FT WELL PRODUCES 10-12 GPM			
AT 340 FT WELL PRODUCES 7 1/2-8 GPM			
WATER IS DIRTY ALWAYS COLORED TAN OR BROWN.			

Date started 1-26-04 Completed 1-28-04

(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.

Signed Paul K... WWC Number 796 Date 1-29-04

(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 water supply well construction standards. This report is true to the best of my knowledge and belief.

Signed Paul K... WWC Number 796 Date 1-29-04

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STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)

OCT 02 2001

Instructions for completing this report are on the back of this form.

WATER RESOURCES DEPT.
SALEM, OREGONWELL I.D. # L 49563
START CARD # 142506(1) LAND OWNER
Name FREDDY SENHAUSER
Address 1710 E. NEVADA
City ASHLAND State OR Zip 97520(2) TYPE OF WORK
☒ New Well ☐ Deepening ☐ Alteration (repair/recondition) ☐ Abandonment(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other _____(4) PROPOSED USE:
☒ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other _____(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 72 1/4 ft.
Explosives used ☐ Yes ☒ No Type _____ Amount _____

HOLE				SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds	
10"	0	45	BENTONITE	65	68	2 SACKS	
8"	45	69	" "	0	54	34 SACKS	
6"	69	82					

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E
☒ Other POURED DRY
Backfill placed from _____ ft. to _____ ft. Material _____
Gravel placed from _____ ft. to _____ ft. Size of gravel _____(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	+1	71	250	☒	☐	☒	☐
Liner:				☐	☐	☐	☐

Drive Shoe used ☐ Inside ☒ Outside ☐ None
Final location of shoe(s) _____(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour

Yield gal/min	Drawdown	Drill stem at	Time
SEE NOTES		71	1 hr.
			SEE NOTES

Temperature of water 57° 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 JACKSON Latitude _____ Longitude _____
Township 38S N or S Range 1E E or W. WM.
Section 27 NW 1/4 SE 1/4
Tax Lot 101 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 1710 E. NEVADA(10) STATIC WATER LEVEL:
SEE NOTES ft. below land surface. Date 9/7 - 9/9
Artesian pressure _____ lb. per square inch Date _____(11) WATER BEARING ZONES:
Depth at which water was first found _____

From	To	Estimated Flow Rate	SWL
72	74	33-1	

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
CLAY DARK BROWN STICKY	0	5	
ROCK FRACTURED BROWN	5		
(OR LAYERED ANGULAR BLK)		23	
DECOMPOSED ROCK WITH	23		
TAN CLAY (UNSTABLE)		72	
BRICIA (ANGULAR	72		
BASALT GRAVEL) GREY			
E BROWN CLAYING		78	
CLAY OR SOFT CLAYSTONE	78		
GREY		82	

9-7: AFTER REAMING HOLE TO 69 FT
STATIC = 50 FT

9-8: WITH BIT AT 71 FT PUMPED FOR 1 HR.
58 MINS LESS 17 MINS RECOVERY PERIOD
(AFTER 1 HR 10 MINS). YIELD STARTED
AT 33GPM ENDED AT 3 1/2 GPM. AFTER
1 HR 6 MINS RECOVERY, YIELD IS 8 1/2 GPM
BUT DROPS TO 6 GPM AFTER 10 MINS.

Date started 9-6-01 Completed 9-9-01(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 water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number _____
Signed _____ Date _____(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 water supply well construction standards. This report is true to the best of my knowledge and belief.
PIONEER DRILLING WWC Number 796
Signed John V. Date 9-9-01

9-9: WAITED 36 MINS FOR RECOVERY AND 9-7: AFTER APPROX 60 MINS RECOVERY SIMILAR TO 9-7 IT
PUMPED APPROX 41.2 GALLONS DURING 30 MINS
YIELD BEGINS AT 3 1/2 GPM + DROPS TO .9. YIELD BEGINS AT 13 GPM, 1 1/2 AT END OF 30 MINS.

9-7: (CONT) AFTER 5 HR RECOVERY
STATIC RISES FROM 72 TO 71 FT