



Oregon

Kate Brown, Governor

Water Resources Department

North Mall Office Building

725 Summer St NE, Suite A

Salem, OR 97301

Phone (503) 986-0900

Fax (503) 986-0904

www.Oregon.gov/OWRD

July 3, 2018

AARON ADAMS WWC #10576
YELLOW JACKET DRILLING
16765 SE 362ND DRIVE
SANDY, OREGON 97055

FINAL ORDER

Dear Mr. Adams:

The Special Standards Request Form you submitted for owner: City of Merrill, Start Card number 1039334, is hereby approved for the following: you may decommission this water supply well as outlined on your Special Standards Request Form dated July 2, 2018. A copy of your Special Standards Request Form is enclosed.

Verbal approval of this Special Standards Request was provided on June 29, 2018.

If you have any questions concerning this letter, I may be contacted at (503) 986-0852, or by e-mail at Joel.W.Jeffery@oregon.gov.

Sincerely,

Joel Jeffery, Coordinator
Well Construction Program
Well Construction and Compliance Section

enclosure

cc: Southwest Region
File

This is a final order in other than contested case. This order is subject to judicial review under ORS 183.484. Any petition for judicial review must be filed within the 60 day time period specified by ORS 183.484(2). Pursuant to ORS 536.075 and OAR 137-004-0080 you may either petition for judicial review or petition the Director for reconsideration of this order. A petition for reconsideration may be granted or denied by the Director, and if no action is taken within 60 days following the date the petition was filed, the petition shall be deemed denied.



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

Special Standards Request Form

REQUEST FOR WRITTEN APPROVAL TO USE CONSTRUCTION METHODS NOT INCLUDED IN OREGON ADMINISTRATIVE RULES 690-200 THROUGH 690-240

Before the request can be considered, this form must be completed. Requests shall be submitted to the Well Construction Program Coordinator, Water Resources Department, 725 Summer Street NE, Suite A, Salem OR 97301-1266. Requests may also be considered by the appropriate Regional Manager.

Date of request: 7/2/2018 Oral approval date (if applicable): _____

Bonded Well Constructor (name, license #, and mailing address): Aaron Adams, #10576, 16765
SE 362nd Drive, Sandy Oregon 97055

(1) Location of Well: NE 1/4 NE 1/4 Tax lot 01000 Section 11,
Township 41 S , Range 10 E , Kalamath County
Address at well site: _____ Lat 42 1'25.23"N
_____ Long 121 36' 5.77W

(2) Start Card Number(s)(for work to be done): 1039334

(3) Name and Address of Land Owner: City of Merrill, 301 Second Street
Merrill, OR 97633

(4) Distance to the nearest septic tank, drainfield, closed sewage line (if water supply well)
>50 feet

(5) The unusual site conditions which necessitate this request: A 10-inch cable tool
drill bit was lost in hole on construction in 1962 at 932 feet below ground surface
Existing well KLAM 14959

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)
Use of clean disinfected gravel at bottom of well, a bentonite plug, then a 75' lift of cement grout to
seal off bottom of well
(see attached proposed well abandonment diagram)

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JUN 29 2018

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- (7) Diagram showing the pertinent features of the proposed well design and construction:
(attach additional pages if needed)

(see attached)

PLEASE NOTE:

- (1) The Well Construction Standards serve to protect ground water resources. By approving and issuing this special construction standard the Oregon Water Resources Department is not representing that a well constructed in accordance with this condition will maintain structural integrity or that it meets engineering standards. The well constructor/or landowner is responsible for ensuring that a well is constructed in a manner that protects ground water resources as required under Oregon Administrative Rules 690-200 through 690-240.
- (2) If it should be determined at some future date that the well, due to its construction, is allowing ground water contamination, waste or loss of artesian pressure, the undersigned shall return to the site and rectify the problem.
- (3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

I have read and understand the above information. I further attest that the information provided is accurate to the best of my knowledge.

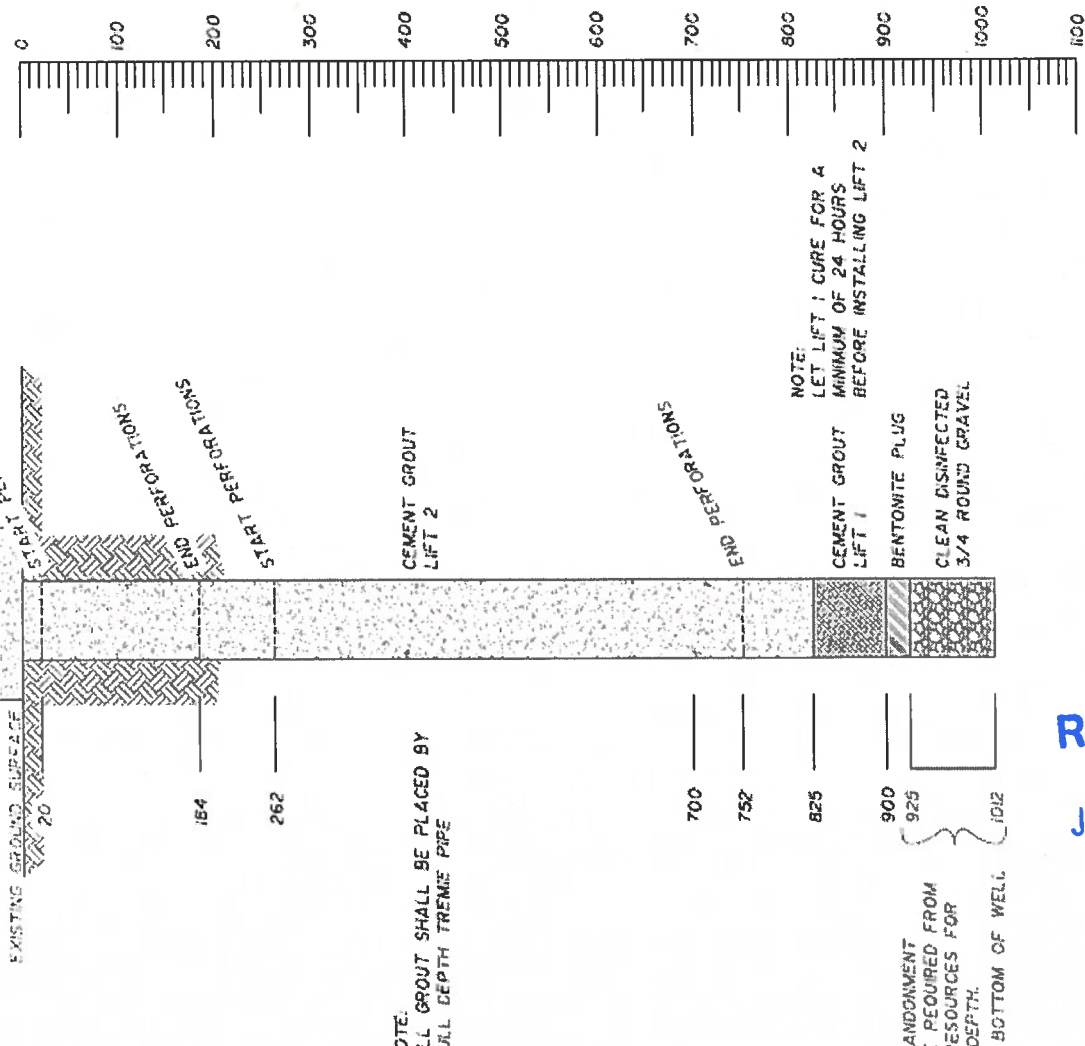
Bonded Constructor Signature: _____



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WELL KLAM 14959

NOTE:
 CUT CASING A MINIMUM OF 30" BELOW
 EXISTING GROUND SURFACE PRIOR TO
 CONCRETE PAD PLACEMENT



NOTE:
 ALL GROUT SHALL BE PLACED BY
 WELL DEPTH TREMIE PIPE

NOTE:
 LET LIFT 1 CURE FOR A
 MINIMUM OF 24 HOURS
 BEFORE INSTALLING LIFT 2

BENTONITE PLUG
 CLEAN DISINFECTED
 3/4 ROUND GRAVEL

ABANDONMENT
 IS REQUIRED FROM
 RESOURCES FOR
 DEPTH.
 BOTTOM OF WELL

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 OWRD
 PROPOSED WELL ABANDONMENT
 SCALE: 1" = 10'

ANDERSON ENGINEERING
 AND SURVEYING, INC.
 P.O. BOX 28
 LAKEVIEW, OREGON 97630
 (541) 947-1467 FAX 947-2321
 WWW.ANDERSONENGINEERING.COM

AE

PROPOSED WELL ABANDONMENT
 CITY OF MERRILL
 MUNICIPAL WATER SUPPLY WELL

DATE: FEB 2018
 SCALE: NO SCALE

KLAM
14959

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JUL 23 1962
KLAM 14959
STATE ENGINEER
SALEM, OREGON

File Original and
First Copy with the
STATE ENGINEER,
SALEM, OREGON

WATER WELL REPORT

State Well No. 41/10-11A

State Permit No. _____

(1) OWNER:
Name CITY OF MERRILL
Address Merrill, Oregon

(11) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? Interstate Pump
Yield: 2450 gal./min. with 19 ft. drawdown after 8 hrs.

(2) LOCATION OF WELL:
County Klamath Owner's number, if any- 2
NE 1/4 NE 1/4 Section 11 T. 41 S R. 10 E W.M.
Bearing and distance from section or subdivision corner
Lot 3, 120' SO. Center of Front St.,
Original Map, City of Merrill, Oregon
26' West of East Line

Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water 74 Was a chemical analysis made? Yes No

(3) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
** abandonment, describe material and procedure in Item 11.

(12) WELL LOG: Diameter of well 12 inches.
Depth drilled 1012 ft. Depth of completed well 1012 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

PROPOSED USE (check): Domestic Industrial Municipal Irrigation Test Well Other
(5) TYPE OF WELL: Rotary Driven Cable Jetted Dug Bored

MATERIAL	FROM	TO
Top Soil	0	8
Hard pan (chalk conglomerate)	8	12
Brown Chalk	12	37
Grey Sand	37	40
Green Chalk	40	88
Sand fine	88	90
Grey Chalk	90	130
Green & Brown chalk	130	175
Black Sand fine	175	177
Dark Grey Chalk	177	195
Green Chalk	195	250
Grey Chalk	250	305
Grey Sand xxxxx	305	306
Grey Chalk	306	350
Sand Grey Black	350	355
Grey Chalk	355	381
Blue Chalk	381	400
Grey Chalk	400	452
Green Chalk	452	480
Grey Chalk	480	495
Green Chalk	495	505
Black lava Rock	505	507
Semi hard grey sand	507	509
Grey Chalk	509	523
Green Chalk	523	540

(6) CASING INSTALLED: Threaded Welded
14 " Diam. from 240 ft. to 462 ft. Gage 1/4 inch
12 " Diam. from 0 ft. to 760 ft. Gage 1/4 inch
" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS: Perforated? Yes No
Type of perforator used _____
SIZE of perforations in. by in.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(8) SCREENS: Well screen installed Yes No
Manufacturer's Name _____
Type _____ Model No. _____
Slot size Set from _____ ft. to _____ ft.
Slot size Set from _____ ft. to _____ ft.

(9) CONSTRUCTION: Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.
Was a surface seal provided? Yes No To what depth? 760 ft.
Material used in seal- Cement
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off Cemented off.

(10) WATER LEVELS:
Static level 33 ft. below land surface Date June 1962
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: _____
[Signed] _____ Date _____, 19_____
(Owner)

(13) PUMP: Manufacturer's Name _____
Type: _____ H.P. _____

Well Driller's Statement:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME _____ (Person, firm, or corporation) _____ (Type or print)

Address _____

Driller's well number _____

[Signed] Walter L Wilson (Well Driller)

License No. 169 Date JUN 29 2018, 19____

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KLAM 14959

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KLAM 14959

(Page 2)

41/10-11A

File Original and First Copy with the STATE ENGINEER, SALEM, OREGON

STATE ENGINEER

WATER WELL REPORT

STATE OF OREGON

State Well No. _____

State Permit No. _____

(1) OWNER:

Name CITY OF MERRILL
Address Merrill, Oregon

(2) LOCATION OF WELL:

County _____ Owner's number, if any—
1/4 Section T. R. W.M.
Bearing and distance from section or subdivision corner

(3) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon
** abandonment, describe material and procedure in Item 11.

PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Driven
Cable Jetted
Dug Bored

(6) CASING INSTALLED:

Threaded Welded
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____
" Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? Yes No
Type of perforator used _____
SIZE of perforations in. by in.
..... perforations from _____ ft. to _____ ft.
..... perforations from _____ ft. to _____ ft.
..... perforations from _____ ft. to _____ ft.
..... perforations from _____ ft. to _____ ft.
..... perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed Yes No
Manufacturer's Name _____
Type _____ Model No. _____
..... Slot size _____ Set from _____ ft. to _____ ft.
..... Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Was well gravel packed? Yes No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.
Was a surface seal provided? Yes No To what depth? _____ ft.
Material used in seal—
Did any strata contain unusable water? Yes No
Type of water? _____ Depth of strata _____
Method of sealing strata off _____

(10) WATER LEVELS:

Static level _____ ft. below land surface Date _____
Artesian pressure _____ lbs. per square inch Date _____

Log Accepted by: _____

[Signed] _____ Date July 5, 1962
City of Merrill

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom? -
Yield: gal./min. with ft. drawdown after hrs.
" " " " "
" " " " "
" " " " "
" " " " "
Ballor test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m. Date
Temperature of water Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well 12 inches.
Depth drilled 1012 ft. Depth of completed well 1012 ft.
Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
GreyChalk	540	550
Green Chalk	550	880
Grey Chalk	880	891
Sand semi hard grey	891	900
Red Lava Rock	900	905
Grey Lava rock	905	927
Grey Lava (crevice) (Bit)left)	927	932
Grey Lava very hard	932	939
Broken Lava	939	942
Grey Lava	942	947
Grey lava broken (W/sand in it)	947	950
Grey lava lava & blue lava	950	975
Lava & Black porous cinders (water)	975	995
Black Lava Black	995	1000
Lava Broken porous (water)	1000	1012

(Ten inch bit was drilled by at 932 feet)
(Casing cemented in at bottom of twelve inch from 763 back up to 752. Five yards of cement put in at 184 to 189 feet. The 18 inch hole from 189 to 20 feet was filled with fine gravel around the 12 inch casing. Three yards of cement was put in from 20 feet to ground level. A 18 inch hole was drilled from 6 to 390. 14 inch casing is from 240 to 262. 12 inch is run thru the 14 inch to 760 feet.)

Work started July 29 1960. Completed June 1, 1962

(13) PUMP:

Manufacturer's Name Layne & Bowler
Type: Turbine H.P. 75

Well Driller's Statement:

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

NAME WILSON DRILLING CONTRACTOR.
(Person, firm, or company) (Type or print)

Address Box 136 Merrill, Oregon

Driller's well number _____

[Signed] _____ (Well Driller)

License No. 169 Date June 29, 1962