Oregon
Kate Brown, Governor

Water Resources Department
725 Summer St NE, Ste A
Salem, OR 97301
Phone: 503-986-0900
Fax: 503-986-0904

August 8, 2022

AARON ADAMS WWC/MWC# 10576
YELLOW JACKET DRILLING SERVICES LLC
16765 SE 362ND DR
SANDY OR 97055

FINAL ORDER

Dear Mr. Adams:

The Special Standards Request Form you submitted for owner: Design LLC, Start Card numbers: 1057867 through 1057869, is hereby approved for the following: you may decommission these water supply wells (WASC 3249, WASC 3255, and WASC 3256), as described on your Special Standards Request Form dated August 4, 2022, and Proposed Well Abandonment Schematics. All other well abandonment standards apply as required under Oregon Administrative Rules 690-220. A copy of your Special Standards Request Form is enclosed.

Approval of this Special Standards Request was granted due to the provided email correspondence with Travis Kelly, Well Construction Compliance Coordinator, dated March 2, 2021, stating the proposed well abandonments were acceptable by the Department.

The Well Construction Standards serve to protect groundwater 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 groundwater resources as required under Oregon Administrative Rules 690-200 through 690-240.

If you have any questions regarding this letter I may be contacted at (503) 302-8618, or by e-mail at Tommy.K.Laird@water.oregon.gov.

Sincerely,

Tommy Laird
Well Construction Compliance Coordinator
Well Construction and Compliance Section

enclosure

cc: Shaun Finn, North Central Region Well Inspector

This is a FINAL ORDER other than contested case. This final order is subject to judicial review under ORS 183.484. Any petition for judicial review of the final order must be filed within the time 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: 8/4/2022 **Oral approval date (if applicable):** _____

Bonded Well Constructor (**name, license #, and mailing address**): Aaron Adams

Lic # 10576, 16765 SE 362nd Drive, Sandy OR 97055

(1) Location of Well: _____ 1/4 _____ 1/4 Tax lot 700 Section 28,

Township 2 N, Range 13 E, Wasco County

Address at well site: 3313 W 2nd Street

The Dalles, OR 97058

(2) Start Card Number(s)(for work to be done): 1057867,1057868, and 1057869

(3) Name and Address of Land Owner: Design LLC

1600 Amphitheater Parkway, Mountain View CA 94043

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

unknow

(5) The unusual site conditions which necessitate this request: Water well

abandonment of 3 wells that are both cased and open hole within basalt bedrock - additional

steps to address shallow GW contamination present at the property

(6) The proposed construction methods that the bonded well constructor believes will be adequate for this well: (attach additional pages if needed)

see attached well abandonment diagrams (3)

also - email correspondence of OWRD approval on 3/2/2021 by Travis Kelly

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

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.

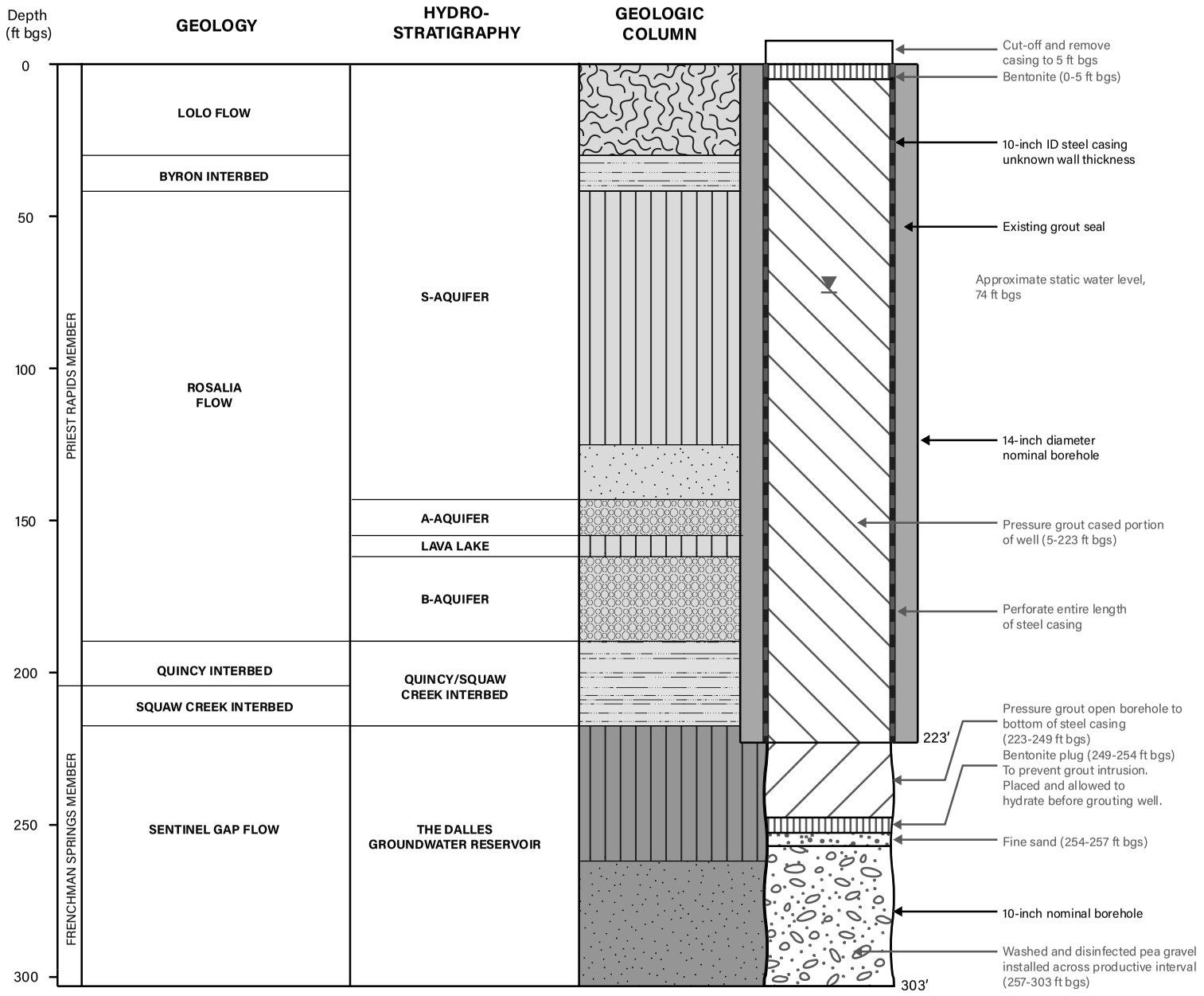
(3) If oral approval was granted, a written request must be submitted to the Department either within three (3) working days of the date of oral approval or prior to the completion of the associated well work. Failure to submit a written request as described above may void prior oral approval.

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: _____

FIGURE 1

Proposed Well Abandonment Schematic Well 4 (WASC 3249)



LEGEND

- Interbed
- Vesicular Flow Top/Bottom
- Dense Flow Interior
- Pillow Complex
- Broken Basalt

NOTES

1. Geology and hydrostratigraphy are from Gerharty and Miller (1988).
2. Contact between the Quincy Interbed and Squaw Creek Interbed is not based on the driller log (contact is assumed).

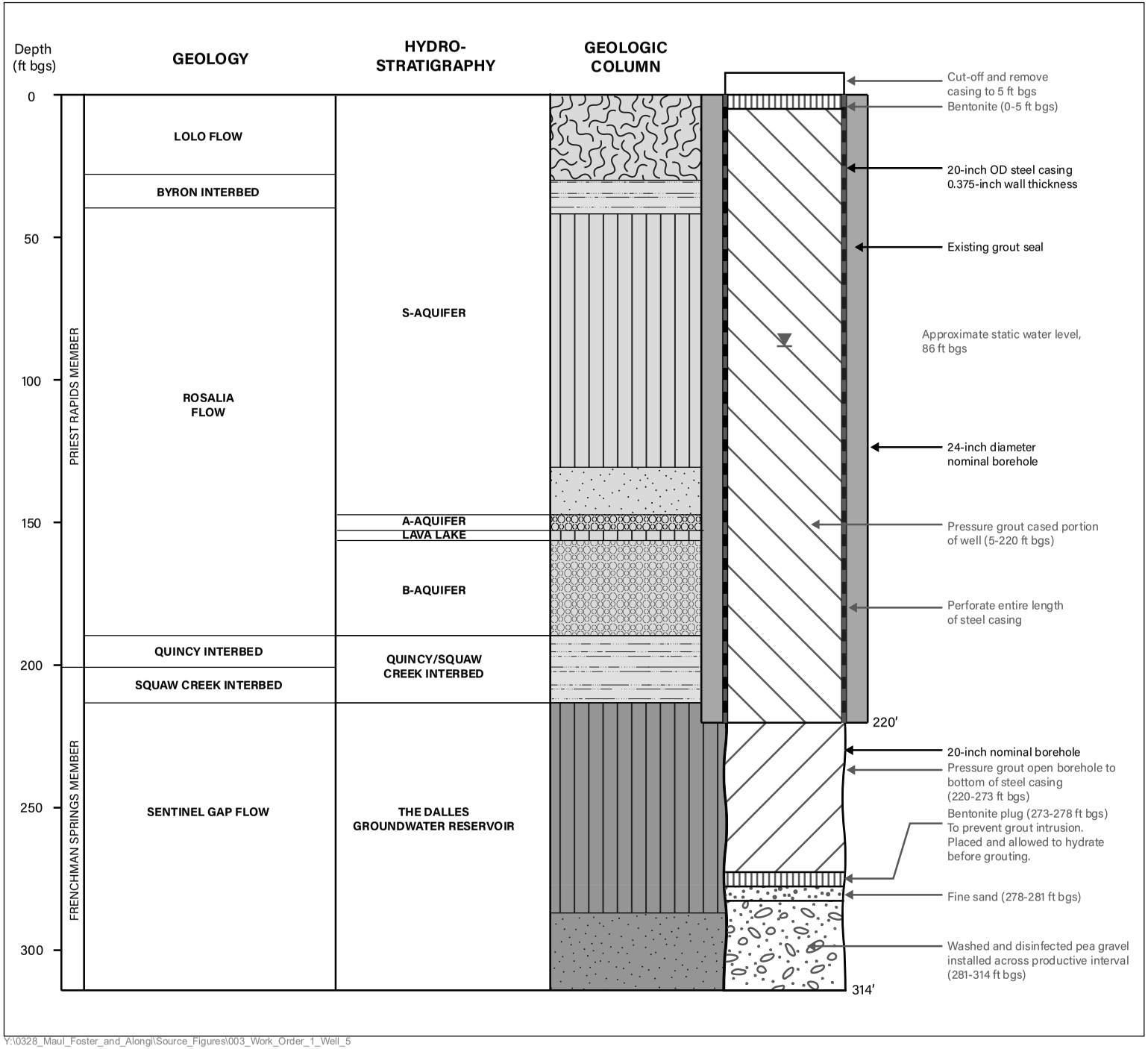
bgs: below ground surface

GSI Water Solutions, Inc.

Y:\0328_Maui_Foster_and_Alongi\Source_Figures\003_Work_Order_1_Well_5

FIGURE 2

Proposed Well Abandonment Schematic Well 1 (WASC 3256)



LEGEND

- Interbed
- Vesicular Flow Top/Bottom
- Dense Flow Interior
- Pillow Complex
- Broken Basalt

NOTES

1. Geology and hydrostratigraphy are from Gerharty and Miller (1988).
2. Contact between the Quincy Interbed and Squaw Creek Interbed is not based on the driller log (contact is assumed).

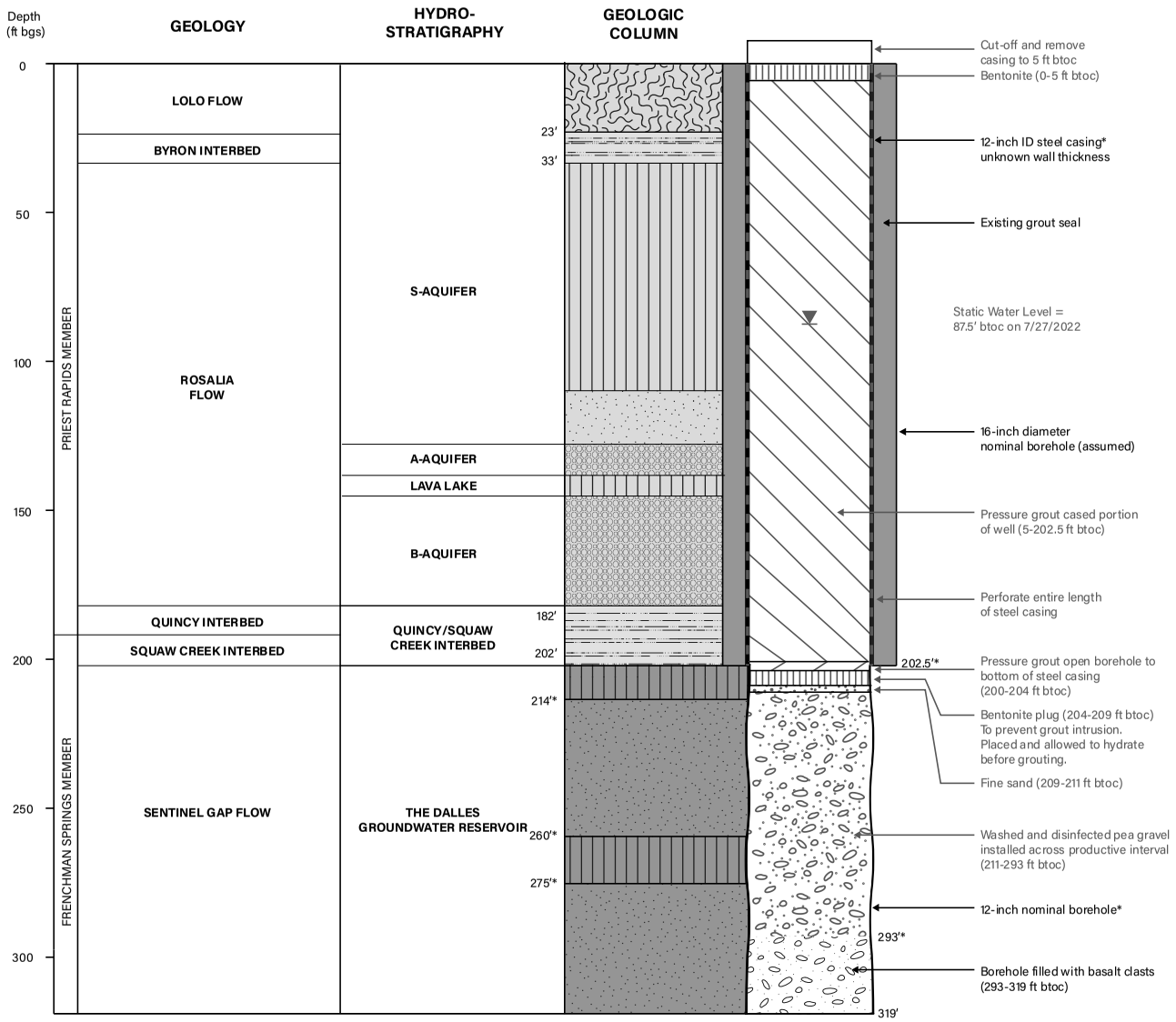
bgs: below ground surface

GSI Water Solutions, Inc.

Y:\0328_Maul_Foster_and_Alongi\Source_Figures\003_Work_Order_1_Well_5

FIGURE 3

Proposed Well Abandonment Schematic Well 3 (WASC 3255)



LEGEND

- Interbed
- Vesicular Flow Top/Bottom
- Dense Flow Interior
- Pillow Complex
- Broken Basalt

NOTES

1. Geology and hydrostratigraphy are from Gerharty and Miller (1988) and a down-hole well video completed on July 22, 2022.
2. Well construction based on WASC 3255 and a down-hole well video completed on July 27, 2022. Unverified elements of well construction are noted as "assumed".
3. Contact between the A-Aquifer and Lava Lake is not based on the driller log (contact is assumed).
4. Contact between the Quincy Interbed and Squaw Creek Interbed is not based on the driller log (contact is assumed).

*Information provided from well video.

btoc: below top of casing

GSI Water Solutions, Inc.

Y:\0328_Maui_Foster_and_Along\Source_Figures\009\Updated_Well_Decomm_Plan

ORIGINAL
File Original and Duplicate with the STATE ENGINEER, SALEM, OREGON

WASC 003256

RECEIVED AUG 19 1957 STATE ENGINEER SALEM, OREGON

WATER WELL REPORT STATE OF OREGON

OBSERVATION WELL: 2N/13-28M(1)

State Well No. G-471

State Permit No. G-338

(1) OWNER:

Name HARVEY MACHINE CO., INC.

Address Torrance, California

(2) LOCATION OF WELL:

County Wasco Owner's number, if any— 1

NW ¼ SW ¼ Section 28 T. 2N R. 13 E W.M.

Bearing and distance from section or subdivision corner

1358.49 ft. S 15° 53' 50" E from the quarter corner of Secs. 28 & 29 T2N R 13 E W M

(3) TYPE OF WORK (check):

New Well [X] Deepening [ ] Reconditioning [ ] Abandon [ ]

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

[redacted] [ ] Industrial [X] Municipal [ ]

Irrigation [ ] Test Well [ ] Other [ ]

(5) TYPE OF WELL:

Rotary [ ] Driven [ ]

Cable [ ] Jetted [ ]

Dug [ ] Bored [ ]

(6) CASING INSTALLED:

Threaded [ ] Welded [X]

20" O.D." Diam. from Surface ft. to 220 ft. Gage 3/8"

" Diam. from ft. to ft. Gage

" Diam. from ft. to ft. Gage

(7) PERFORATIONS:

Perforated? [ ] Yes [X] 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.

Diam. Slot size Set from ft. to ft.

Diam. Slot size Set from ft. to ft.

(9) CONSTRUCTION:

Was well gravel packed? [ ] Yes [X] No Size of gravel:

Gravel placed from ft. to ft.

Was a surface seal provided? [X] Yes [ ] No To what depth? 220 ft.

Material used in seal— Cement Grout

Did any strata contain unusable water? [ ] Yes [X] No

Type of water? Depth of strata

Method of sealing strata off

(10) WATER LEVELS:

Static level 86 ft. below land surface Date 7-31-57

Artesian pressure lbs. per square inch Date

Log Accepted by: Harvey Aluminum Co.

[Signed] R. Hamill (Owner) Date July, 1957

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level

Was a pump test made? [X] Yes [ ] No If yes, by whom? Geologist

Yield: 2145 gal./min. with 4.3 ft. drawdown after 5 hrs.

" 2160 " 4.4 " 8 "

" 1260 " 1.7 " 10 "

Bailer 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 20 inches.

Depth drilled 314 ft. Depth of completed well 314 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
See attached well Log		

Work started Nov 1956. Completed July 1957

(13) PUMP:

Manufacturer's Name Not Purchased

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 R. J. Strasser Drilling Company
(Person, firm, or corporation) (Type or print)

Address 8110 S. E. Sunset Lane, Portland 6, Ore

Driller's well number 1

[Signed] R. J. Strasser Petree (Well Driller)

License No. 10 Date August 13, 1957

(USE ADDITIONAL SHEETS IF NECESSARY)

255
WRSC
3255

GEOLOGIC LOG OF #1 WELL

HARVEY ALUMINUM - THE DALLES, OREGON

0' to 4'	Surface
4' to 11'	Hard sloping rock ledge
11' to 19'	Hard gray rock
19' to 21'	Broken formation
21' to 27'	Hard gray rock
27' to 36'	Mixture of colors Hard gray-black and white rock
36' to 39'	Layer of decomposed formation (similar to coal)
43' to 89'	Very hard gray rock
89' to 95'	Very hard gray rock
95' to 104'	Hard gray rock, but coarse in texture Drilled faster
104' to 108'	Very hard gray rock - very fine cuttings
108' to 129'	Hard gray rock. Same formation as the 104' to 108' strata
129' to 132'	Very hard gray rock
132' to 146'	Very hard gray rock
146' to 152'	Medium hard rough black rock
152' to 155'	Hard gray rock
155' to 166'	Medium hard rough black rock
166' to 181'	Medium hard rough black rock
181' to 189'	Hard gray rock
189' to 205'	Blue shale

205'	to 212'	Conglomerate
212'	to 229'	Medium hard brown rock
229'	to 242'	Hard gray rock
242'	to 250'	Hard gray rock
250'	to 255'	Hard gray rock
255'	to 260'	Hard gray rock
260'	to 262'	Hard gray rock
262'	to 265'	Hard gray rock
265'	to 268'	Hard gray rock
268'	to 271'	Hard gray rock
271'	to 264'	Hard gray rock
274'	to 277'	Hard gray rock
277'	to 279'	Hard gray rock
279'	to 281'	Hard gray rock
281'	to 284'	Hard gray rock
284'	to 286'	Hard gray rock
286'	to 288'	Porous Blackrock (water bearing)
288'	to 294'	Porous Blackrock (water bearing)
294'	to 296'	Harder, but still water-brown color
296'	to 306'	Porous Blackrock (water bearing very good)
306'	to 310'	Rough black rock

255
WASC
3255

GR 145 D8

January 8, 1958

GEOLOGIC LOG OF #1 WELL

HARVEY ALUMINUM * THE DALLES, OREGON

0' to 4'	Surface
4' to 11'	Hard sloping rock ledge
11' to 19'	Hard gray rock
19' to 21'	Broken formation
21' to 27'	Hard gray rock
27' to 36'	Mixture of colors Hard gray-black and white rock
36' to 39'	Layer of decomposed formation (similar to coal)
43' to 89'	Very hard gray rock ~~(similar to coal)~~

O. J. Norris

R. J. Strasser Drilling Co.

1

255
WRSC
3755

January 18, 1957

GEOLOGIC LOG OF #1 WELL

HARVEY ALUMINUM - THE DALLES, ORREGON

REPORT NO. 2

89' to 95'	Very hard gray rock
95' to 104'	Hard gray rock, but coarse in texture Drilled faster
104' to 108'	Very hard gray rock - very fine cuttings
108' to 129'	Hard gray rock. Same formation as the 104' to 108' strata
129' to 132'	Very hard gray rock

Samples up to date.

O. J. Norris

R. J. Strasser Drilling Co.

755
WRSC
3455

REPORT NO. 3 -- GEOLOGICAL LOG

WELL NO. 1

HARVEY ALUMINUM

THE DALLES, OREGON

(Continuing Log)

January 25, 1957

132'	to 146'	Very hard gray rock
146'	to 152'	Medium hard rough black rock
152'	to 155'	Hard gray rock
155'	to 166'	Medium hard rough black rock

O. J. Morrison

R. J. Strasser Drilling Co.

255
WASC
3255

February 1, 1957

GEOLOGIC LOG OF # 1 WELL

HARVEY ALUMINUM - THE DALLES, OREGON

REPORT NO. 4

166 ft. to 181 ft.	Medium hard rough black rock
181 ft. to 189 ft.	Hard gray rock
189 ft. to 205 ft.	Blue shale
205 ft. to 212 ft.	Conglomerate
212 ft. to 229 ft.	Medium hard brown rock
229 ft. to 242 ft.	Hard gray rock

O. J. Marcia

R. J. STRISSER DRILLING CO.

255
WASC 3255

March 15, 1957

GEOLOGIC LOG OF #1 WELL

HARVEY ALUMINUM - THE DALLES, OREGON

REPORT NO. 4

242 ft. to 250 ft.	Hard gray rock
250 ft. to 255 ft.	Hard gray rock
255 ft. to 260 ft.	Hard gray rock
260 ft. to 262 ft.	Hard gray rock
262 ft. to 265 ft.	Hard gray rock
265 ft. to 268 ft.	Hard gray rock
268 ft. to 271 ft.	Hard gray rock
271 ft. to 274 ft.	Hard gray rock
274 ft. to 277 ft.	Hard gray rock
277 ft. to 279 ft.	Hard gray rock
279 ft. to 281 ft.	Hard gray rock
281 ft. to 284 ft.	Hard gray rock
284 ft. to 286 ft.	Hard gray rock
286 ft. to 288 ft.	Porous Blackrock (water bearing)
288 ft. to 294 ft.	Porous Blackrock (water bearing)
294 ft. to 296 ft.	Harder, but still water - brown color
296 ft. to 306 ft.	Porous Blackrock (water bearing very good)
306 ft. to 310 ft.	Rough black rock

O. J. Morris
R. J. STRASSER DRILLING CO.

WASC

Duplicate with the STATE ENGINEER SALEM, OREGON 003255 MAR 3 1958 STATE OF OREGON Ap. G736 Fill In State Permit No. G647

STATE ENGINEER SALEM, OREGON

(1) OWNER:
Name Harvey Aluminum Company
Address The Dalles, Oregon

(2) LOCATION OF WELL:
County Wasco Owner's number, if any— #3A
R. F. D. or Street No.
Bearing and distance from section or subdivision corner
652 N. & 1840' W. from the ¼ 28/33 corner of Sect. 28, TWP 2N, Range 13E being within the SW¼ of SW¼ of Sec. 28 TWP 2N Range 13E bearing N 70°04' W. Dist. 1952'

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

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☒ Municipal ☐
Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:
Rotary ☐
Cable ☒
Dug Well ☐

(6) CASING INSTALLED:
Threaded ☐ Welded ☒

FROM	ft. to	ft.	Diam.	Gage or Wall
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"
"	"	"	"	"

If gravel packed

Diameter of Bore	from ft.	to ft.
	"	"
	"	"
	"	"
	"	"
	"	"

Type and size of shoe or well ring
Size of gravel:
Describe joint

(7) PERFORATIONS:
Type of perforator used
SIZE of perforations in., length, by in.

FROM	ft. to	ft.	perf per foot	No. of rows
"	"	"	" " "	" " "
	"	"	" " "	" " "
"	"	"	" " "	" " "
"	"	"	" " "	" " "

SCREENS:
Give Manufacturer's Name, Model No. and Size

(8) CONSTRUCTION:
Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.
Were any strata sealed against pollution? ☒ Yes ☐ No
If yes, note depth of strata 207'
FROM ft. to ft.
" Surface " 207' "
METHOD OF SEALING Cementing Casing

(9) WATER LEVELS:
Depth at which water was first found 35' ft.
Standing level before perforating 77' ft.
Standing level after perforating ft.

Log Accepted by:
[Signed] Harvey Aluminum by Claude C. Carl Dated 2-28 1958

(10) WELL TESTS: OBSERVATION WELL
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller
Yield: 1000 gal./min. with 2' 2" ft. draw down after 4 hrs.
" " " "
" " " "
Artesian flow g.p.m.
Shut-in pressure lbs. per square inch.
Bailer test g.p.m. with ft. drawdown
Temperature of water Was a chemical analysis made? ☒ Yes ☐ No
Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:
Diameter of well, 10 inches.
Total depth 319 ft. Depth of completed well 319 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.*

ft. to		ft.	
0	5	"	Rock Fill
5	15	"	Fractured Rock
15	17	"	Broken Rock
17	23	"	Hard Grade Basalt
23	33	"	Blue Shale Interbed
33	50	"	Black Basalt with layers clay
50	63	"	Hard Black Basalt
63	92	"	Hard grade Basalt
92	96	"	Black Basalt
96	98	"	Black Basalt
98	101	"	Black Basalt with trace quartz
101	104	"	Black Basalt
104	117	"	Black Basalt with Quartz
117	128	"	Hard Grade Basalt
128	172	"	Hard & Soft Layers Black Basalt
172	176	"	Broken Black Basalt
176	180	"	Hard grade Basalt
180	182	"	Black Rock
182	202	"	Blue Clay
202	207	"	Rock
207	229	"	Black Basalt
229	277	"	Black Basalt with Hard & soft La
277	318	"	Porous Black rock water bearing
318	319	"	Hard Grey Rock
"		"	
"		"	
"		"	

Ground elevation at well site 126.80 feet above mean sea level.
Work started Aug. 1 1957. Completed Dec. 31 1957

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 A. M. Jannsen Drilling Company
(Person, firm, or corporation) (Typed or printed)
Address 21075 S. W. Tualatin Valley Highway
Aloha, Oregon
Driller's well number
[Signed] Edward W. Jannsen
(Well Driller)
License No. 79 Dated January 3,

File Original and Duplicate with the STATE ENGINEER, SALEM, OREGON

WASC 3254

WATER WELL DRILLERS REPORT — STATE OF OREGON

RECEIVED MAR 3 1958 STATE ENGINEER SALEM, OREGON

WASC 3249

App G739

(Do Not Write In)

State Well No. 1/13 20 1 ...

State Permit No. 6648

(1) OWNER:

Name Harvey Aluminum Company

Address 19200 Southwestern Avenue

Torrance, California

(2) LOCATION OF WELL:

County Wasco Owner's number, if any— 4A

R. F. D. or Street No.

Bearing and distance from section or subdivision corner

981' North and 1078' west from ¼ 28/33 Corner Section 28 TWP. 2N Range 13E boring within the SE ¼, SW¼ of Section28 TWP 2N Range 13E bearing N47°16'W.Dist. 1457'

(3) TYPE OF WORK (check):

New well ☒ Deepening ☐ Reconditioning ☐ Abandon ☐

If abandonment, describe material and procedure in Item 11.

(4) PROPOSED USE (check):

Domestic ☐ Industrial ☒ Municipal ☐

Irrigation ☐ Test Well ☐ Other ☐

(5) EQUIPMENT:

Rotary ☐

Cable ☒

Dug Well ☐

(6) CASING INSTALLED:

Threaded ☐ Welded ☒

FROM 0 ft. to 223 ft. 10 Diam. stndrd Gage or Wall

If gravel packed

Diameter of Bore — from ft. — to ft.

Type and size of shoe or well ring

Size of gravel:

Describe joint

(7) PERFORATIONS:

Type of perforator used

SIZE of perforations in., length, by in.

FROM ft. to ft. perf per foot No. of rows

SCREENS:

Give Manufacturer's Name, Model No. and Size

(8) CONSTRUCTION:

Was a surface sanitary seal provided? ☐ Yes ☒ No To what depth ft.

Were any strata sealed against pollution? ☐ Yes ☐ No

If yes, note depth of strata surface to 227'

FROM ft. to ft.

METHOD OF SEALING grouting casing

(9) WATER LEVELS:

Depth at which water was first found 262 ft.

Standing level before perforating ft.

Standing level after perforating 74 ft.

Log Accepted by:

[Signed] Harvey Aluminum (Owner) ..., 19...

By Claude C. Cook

(10) WELL TESTS:

Was a pump test made? ☒ Yes ☐ No If yes, by whom? Driller

Yield: 1170 gal./min. with 3 ft. draw down after 8 hrs.

Artesian flow ... g.p.m.

Shut-in pressure ... lbs. per square inch.

Bailer test ... g.p.m. with ... ft. drawdown

Temperature of water Was a chemical analysis made? ☒ Yes ☐ No

Was electric log made of well? ☐ Yes ☒ No

(11) WELL LOG:

Diameter of well, 10 inches.

Total depth 303 ft. Depth of completed well 303 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.*

ft. to	ft.	
0	10	fill
10	28	broken basalt
28	30	hard basalt
30	41	soft rock & clay
41	58	black basalt
58	89	hard rock basalt
89	98	weathered basalt
98	110	hard grey basalt
110	115	grey basalt with clear quartz
115	132	hard grey basalt
132	140	porous grey basalt
140	143	hard grey basalt
143	155	porous grey lava rock
155	162	hard grey basalt
162	190	coal or peat
190	195	grey clay
195	212	clay with small gravel
212	217	brown clay and rock
217	223	rock
223	258	hard grey basalt
258	262	hard grey basalt
262	290	porous basalt with hard & soft layers
290	300	grey basalt slightly porous
300	303	Rock firm but turning brown with bits of clay

Ground elevation at well site 1332.50 feet above mean sea level

Work started 5-28-57 19 , Completed 7-27-57 19

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 A. M. Jannsen Drilling Company (Person, firm, or corporation) (Typed or printed)

Address 20175 S. W. Tualatin Valley Highway Aloha, Oregon

Driller's well number

[Signed] Edward W. Jannsen (Well Driller)

License No. 79 Dated 8-23-57, 19...

Ted Ressler

From: KELLY Travis N * WRD <Travis.N.Kelly@oregon.gov>
Sent: Tuesday, March 2, 2021 12:54 PM
To: Ted Ressler
Subject: RE: Well abandonment

Ted,

Your proposal to abandon these well is acceptable by the Department. It is also acceptable to cut off the upper 10 feet of the casing during abandonment to allow for grading of the lot.

Get back to me with any questions,

Travis Kelly, HT
Well Construction Program Coordinator
725 Summer St NE Suite A | Salem OR 97301
Cell:503-302-8618
travis.n.kelly@oregon.gov
Pronouns: he/him/his

OREGON WATER RESOURCES DEPARTMENT

Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

---

From: Ted Ressler <tressler@gsiws.com>
Sent: Tuesday, March 2, 2021 10:08 AM
To: KELLY Travis N * WRD <Travis.N.Kelly@oregon.gov>
Subject: RE: Well abandonment

Hi Travis

Thank you for the discussion this morning regarding the proposed abandonment procedure for the former Northwest Aluminum Company production wells in The Dalles (WASC 3256, WASC 3255, and WASC 3249). I wanted to confirm that per our discussion, the abandonment procedure outlined on the attached figure is consistent with the Departments rules for abandonment of wells. Also, I understand that the Department does not have any concerns if additional casing is removed and bentonite used at ground surface (increasing from 0-5 ft in the attached figure to 0-10 ft) to facilitate grading of the ground surface during subsequent redevelopment of the property.

Thanks again for coordinating a time to the call to discuss this project.

Ted

From: KELLY Travis N * WRD [mailto:Travis.N.Kelly@oregon.gov]
Sent: Thursday, February 25, 2021 5:02 PM
To: Ted Ressler <tressler@gsiws.com>

Cc: HACKETT Joshua A * WRD <Joshua.A.Hackett@oregon.gov>
Subject: Re: Well abandonment

Sure, Teams sounds good for diagram review.

Travis Kelly, HT
Well Construction Program Coordinator
725 Summer St NE Suite A | Salem OR 97301
Cell:503-302-8618
travis.n.kelly@oregon.gov
Pronouns: he/him/his

From: Ted Ressler <tressler@gsiws.com>
Sent: Thursday, February 25, 2021 5:01:07 PM
To: KELLY Travis N * WRD <Travis.N.Kelly@oregon.gov>
Cc: HACKETT Joshua A * WRD <Joshua.A.Hackett@oregon.gov>
Subject: RE: Well abandonment

That works, unless you want to do a screen share of the diagram for discussion. I can set up a Teams call if that would be helpful for pulling up logs/diagrams/etc.

Ted

From: KELLY Travis N * WRD [mailto:Travis.N.Kelly@oregon.gov]
Sent: Thursday, February 25, 2021 4:56 PM
To: Ted Ressler <tressler@gsiws.com>
Cc: HACKETT Joshua A * WRD <Joshua.A.Hackett@oregon.gov>
Subject: RE: Well abandonment

Sounds good, I'll put it on my calendar.

Do you just want to call me on my cell?

Thanks,

Travis Kelly, HT
Well Construction Program Coordinator
725 Summer St NE Suite A | Salem OR 97301
Cell:503-302-8618
travis.n.kelly@oregon.gov
Pronouns: he/him/his

Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

---

From: Ted Ressler <tressler@gsiws.com>
Sent: Thursday, February 25, 2021 4:44 PM

To: KELLY Travis N * WRD <Travis.N.Kelly@oregon.gov>
Cc: HACKETT Joshua A * WRD <Joshua.A.Hackett@oregon.gov>
Subject: RE: Well abandonment

Travis

The time slots on Tuesday and Wednesday both work for me. How about Tuesday at 9 AM?

Ted

From: KELLY Travis N * WRD [mailto:Travis.N.Kelly@oregon.gov]
Sent: Thursday, February 25, 2021 4:28 PM
To: Ted Ressler <tressler@gsiws.com>
Cc: HACKETT Joshua A * WRD <Joshua.A.Hackett@oregon.gov>
Subject: RE: Well abandonment

Ted,

I am available for a call next week:
Tuesday from 8-10 AM
Wednesday from 10-noon
Thursday 1-4 PM

Get back to me if any of those times work?

Thanks,

Travis Kelly, HT
Well Construction Program Coordinator
725 Summer St NE Suite A | Salem OR 97301
Cell:503-302-8618
travis.n.kelly@oregon.gov
Pronouns: he/him/his

OREGON WATER RESOURCES DEPARTMENT

Integrity | Service | Technical Excellence | Teamwork | Forward-Looking

---

From: Ted Ressler <tressler@gsiws.com>
Sent: Thursday, February 25, 2021 1:06 PM
To: KELLY Travis N * WRD <Travis.N.Kelly@oregon.gov>
Cc: HACKETT Joshua A * WRD <Joshua.A.Hackett@oregon.gov>
Subject: Well abandonment

Hi Travis

I hope you are well.

The new owners of the former Northwest Aluminum Company production wells in The Dalles (WASC 3256, WASC 3255, and WASC 3249) are planning to abandon the wells. We have developed a plan for the abandonment of the wells, which was developed to meet the standards for abandonment per the Department's Div 220 rules; however, our plan includes some extra steps in the procedure that were developed in consultation with EPA & DEQ to address concerns regarding the shallow groundwater contamination present on the property where the wells are located. I've attached a schematic showing the abandonment approach for Well 1 for discussion; however, the abandonment approach is the same for all three wells.

Do you have availability next week for a call to review and discuss? I would like to confirm that the Department does not have any concerns with the approach for the abandonment and if interface with the Department during abandonment will be needed.

Thanks

Ted

Theodore R. Ressler
RG, CWRE, PG
Hydrogeologist and Water Resources Consultant
direct: 971.200.8509 | mobile: 503.701.4535
55 SW Yamhill St., Suite 300, Portland, OR 97204
GSI Water Solutions, Inc. | www.gsiws.com

Please note: GSI is open for business, although most of us are working remotely. I'm available by phone or email, as always.