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Attachment E

Well Logs for Existing Wells

Application for Permit Amendment - Columbia Hills Homeowners Association

STATE OF OREGON

AUG 2 1985

WATER WELL REPORT REVISED: Water log report

WATER RESOURCES DEPT SALEM, OREGON

PLEASE TYPE or PRINT IN INK

(for official use only)

(1) OWNER:

Name Columbia Hill Development Co. Address 31900 Callahan Road City Scappoose State Oregon

(2) TYPE OF WORK (check):

New Well [x] Deepening [] Reconditioning [] Abandon []

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary Air [x] Driven [] Domestic [x] Industrial [] Municipal [] Rotary Mud [] Dug [] Irrigation [] Thermal: [] Withdrawal [] Rejection [] Cable [] Bored [] Other: Piezometric [] Grounding [] Test []

(4) PROPOSED USE (check):

(5) CASING INSTALLED:

Steel Threaded [x] Plastic Welded [x] 6" Diam. from 2.7 ft. to 218.7 ft. Gauge 250

LINER INSTALLED:

Steel Threaded [x] Plastic Welded [x] 5" Diam. from 205 ft. to 308 ft. Gauge 188

(6) PERFORATIONS:

Perforated? [x] Yes [] No Size of perforations 3/8 in. by 5 in. 18 perforations from 220 ft. to 307 ft.

(7) SCREENS:

Well screen installed? [] Yes [x] No Manufacturer's Name Type Model No. Diam. Slot Size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level Was a pump test made? [] Yes [x] No If yes, by whom? Field: gal./min. with ft. drawdown after hrs. Air test 12 gal./min. with drill stem at 307 ft. 1 hrs. Bailer test gal./min. with ft. drawdown after hrs. Artesian flow g.p.m. Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes [x] No [] Well seal - Material used cement grout Well sealed from land surface to 190 ft. Diameter of well bore to bottom of seal 10 in. 42' Diameter of well bore below seal 8 3/4 in. 218' Amount of sealing material 32 sacks [x] pounds [] How was cement grout placed? tremmie pipe

Was pump installed? [] No Type HP Depth ft. Was a drive shoe used? [x] Yes [] No Plugs Size: location ft. Did any strata contain unusable water? [] Yes [x] No Type of Water? depth of strata Method of sealing strata off Was well gravel packed? [x] Yes [] No Size of gravel: 1/4 Gravel placed from 190 ft. to 218 ft.

(10) LOCATION OF WELL by legal description:

County Columbia 1/4 of Section 22 Township 3 N Range 2 W WM. (Township is North or South) (Range is East or West) Tax Lot Lot Block Subdivision

MAILING ADDRESS OF WELL (or nearest address)

31900 Callahan Road Scappoose, Oregon 97056

(11) WATER LEVEL of COMPLETED WELL:

Depth at which water was first found 210 ft. Static level 125 ft. below land surface. Date 7/22/85 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6 ft. Depth drilled 308 ft. Depth of completed well 308 ft. Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

Table with columns: MATERIAL, From, To, SWL. Rows include Top soil, Clay brown, Clay red, Clay brown, Clay red, Clay brown, Clay brownish red, Clay red, Clay redish-brown, Clay gray-blue w/some shale, Clay light brown, Clay yellow-brown, Clay blue-green, Clay gray, Clay green-blue, Sandstone gray soft, Sandstone blue-gray.

Date work started 7/19/85 /completed 7/22/85 Date well drilling machine moved off of well 7/22/85 19

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

(Signed) Date, 19

(bonded) Water Well Constructor Certification:

Bond #471F1529 Issued by: Travelers Insurance (number) (Surety Company Name) On behalf of Dale McGhee & Sons Well Drilling Inc. (type or print name of Water Well Constructor)

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

(Signed) Dale McGhee (Water Well Constructor) (Dated) July 29, 1985

NOTICE TO WATER WELL CONSTRUCTOR The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*46866-690

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STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.765) **WATER RESOURCES DEPT** or PRINT IN INK
SALEM, OREGON

BOLU
3174
3W/2W-22
(for official use only)

(1) OWNER:
Name Columbia Hill Development Co.
Address 31900 Callahan Road
City Scappoose State Oregon
97056

(2) TYPE OF WORK (check):
New Well Deepening Reconditioning Abandon
If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):
Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Thermal: Withdrawal Reinjection
Cable Bored Other: Piezometric Grounding Test

(5) CASING INSTALLED: Steel Plastic
Threaded Welded
6" Diam. from ±2.7 ft. to 218.7 ft. Gauge 250
" Diam. from _____ ft. to _____ ft. Gauge _____

LINER INSTALLED: Steel Plastic
Threaded Welded
5" Diam. from 208 ft. to 311 ft. Gauge 188

(6) PERFORATIONS: Perforated? Yes No
Size of perforations 3/8 in. by 5 in.
18 perforations from 220 ft. to 310 ft.
perforations from _____ ft. to _____ ft.
perforations from _____ ft. to _____ ft.

(7) 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.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? Yes No If yes, by whom?
id: _____ gal./min. with _____ ft. drawdown after _____ hrs.
Air test 12 gal./min. with drill stem at 310 ft. 1 hrs.
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION: Special standards: Yes No
Well seal—Material used cement grout
Well sealed from land surface to _____ 190 ft.
Diameter of well bore to bottom of seal _____ 10 in. 42
Diameter of well bore below seal _____ 8 3/4 in. to 218'
Amount of sealing material _____ 32 sacks pounds
How was cement grout placed? tremmie pipe

Was pump installed? Yes No Type _____ HP _____ Depth _____ ft.
Was a drive shoe used? Yes No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? Yes No
Type of Water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? Yes No Size of gravel: 1/4
Gravel placed from _____ 190 ft. to _____ 218 ft.

(10) LOCATION OF WELL by legal description:
County Columbia 1/4 of Section 22 of
Township 3 N Range 2 W WM.
(Township is North or South) (Range is East or West)
Tax Lot _____ Lot _____ Block _____ Subdivision _____

MAILING ADDRESS OF WELL (or nearest address):
31900 Callahan Road
Scappoose, Oregon 97056

(11) WATER LEVEL of COMPLETED WELL:
Depth at which water was first found 210 ft.
Static level 125 ft. below land surface. Date 7/22/85
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing 6
Depth drilled 311 ft. Depth of completed well 311 ft.
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
Top soil	0	1	
Clay brown	1	9	
Clay red	9	12	
Clay brown	12	21	
Clay red	21	28	
Clay brown	28	31	
Clay brownish red	31	35	
Clay red	35	52	
Clay redish-brown	52	75	
Clay gray-blue w/some shale	75	90	
Clay light brown	90	122	
Clay yellow-brown	122	126	
Clay blue-green	126	148	
Clay gray	148	160	
Clay green-blue	160	185	
Sandstone gray soft	185	204	
Sandstone blue-gray	204	311	

Date work started 7/19/85 /completed 7/22/85
Date well drilling machine moved off of well 7/22/85 19

(unbonded) Water Well Constructor Certification (if applicable):
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] _____ Date _____, 19 _____

(bonded) Water Well Constructor Certification:
Bond #471F1529 Issued by: Travelers Insurance
(number) (Surety Company Name)
On behalf of Dale McGhee Well Drilling Inc.
(type or print name of Water Well Constructor)

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

(Signed) A. Steve McGhee
(Water Well Constructor)
(Dated) July 24, 1985

NOTICE TO WATER WELL CONSTRUCTOR
The original and first copy of this report are to be filed with the

WATER RESOURCES DEPARTMENT,
SALEM, OREGON 97310
within 30 days from the date of well completion.

SP*46866-690

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DALE MCGHEE & SONS WELL DRILLING, INC.

3032 Allen St. Road • Kelso, WA 98626 • 206/423-8493

July 31, 1985

RE: Columbia Hill Development Co.
31900 Callahan Road
Scappoose, Oregon 97056

Attention: John Boardens.

This well was constructed with special standards by John Boardens authorization.

The following procedures were discussed with John in a telephone conversation conducted on July 21, 1985 at approximately 9:30 A.M.

Item # 1. 1/4 inch pea gravel was placed from 190 feet to 218 feet.

Item # 2. A PVC tremmie pipe was placed in the annular space from ground level to 190 feet.

Item # 3. 32 sacks of cement with 5% bentonite was pumped on the outside of the casing.

The driller intended to place a plug 2 feet below the casing and pump cement from the inside of the casing until the cement returned to the surface. This procedure was not completed because water was encountered immediately above and below casing.

A variance was then received for the method of placing cement grout.

Steve McGhee/cw

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AUG 2 1985
WATER RESOURCES DEPT
SALEM, OREGON

Well #2

STATE OF OREGON

COLU 55007

WELL ID # L ~~18190~~ 118190

WATER SUPPLY WELL REPORT

SKYLES DRILLING, INC.

START CARD # W1027199

(as required by ORS 537.765)

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

503-656-2683

(1) OWNER:

Well Number: 01

Name Columbia Hill HOA

Address 2255 Tioga Dr

City Menlo Park State CA Zip 94025

(2) TYPE OF WORK:

New Well Deepening Alteration (repair/recondition) Abandonment

(3) DRILL METHOD:

Rotary Air Rotary Mud Cable Auger

X Other Pump Hoist

(4) PROPOSED USE:

Domestic Community Industrial Irrigation
 Thermal Injection Livestock Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes No Depth of Completed Well 303 ft.

Explosives used Yes No Type Amount

Diameter	HOLE		Material	SEAL		Amount
	From	To		From	To	
6			Unchanged			

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

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6	+2.7	218.7	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Existing				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Shale Trap	100'			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner: 4	6	126	Sch40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	126	246	Sch40	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Drive Shoe used Inside Outside None

Final location of shoe(s) N/A

(7) PERFORATIONS/SCREENS:

Perforations Method Saw
 Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
227	245	1/8x4	308			<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Pump Bailor Air Flowing Artesian

Yield gal/min Drawdown Drill stem at Time
N/A

Temperature of Water 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 Columbia Latitude Longitude
Township 3NORTH N or S. Range 2WEST E or W. of WM.
Section 22AD SE 1/4 NE 1/4
Tax lot 2400 Lot Block Subdivision
Street Address of Well (or nearest address) 31900 Callahan Rd,
Scappoose, OR

(10) STATIC WATER LEVEL:

199 ft. below land surface. Date 7/15/2015
Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found N/A

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:

Ground elevation

Material	From	To	SWL
Clean-out well installed liner w/ shale trap.			

Note: 4" certilock 6'-126'
4" Flush Thread 126'-246'

Existing 5" liner is in well from 205 to 308'

Columbia_3174

SKYLES DRILLING, INC.
503-656-2683

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SALEM, OR

OWRD

Date started 8/15/2015

Completed 8/15/2015

(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 _____ WWC Number _____
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.

Signed *Steve E. Blaud* WWC Number 1592
Date 9/3/2015

Well #4

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

COLU 993

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3N/2W/2366

APR 24 1995

(START CARD) # W 74005

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

(1) OWNER: Well Number South County Water District/Dick Recht/Pres. Name 1212 Broadway 17th Floor Address City Oakland State Ca. Zip 94612

(2) TYPE OF WORK [X] New Well [] Deepening [] Alteration (repair/recondition) [] Abandonment

(3) DRILL METHOD: [X] Rotary Air [] Rotary Mud [] Cable [] Auger [] Other

(4) PROPOSED USE: [] Domestic [X] Community [] Industrial [] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION: Special Construction approval [] Yes [X] No Depth of Completed Well 130 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: Diameter, From, To, Material, From, To, Sacks or pounds. Row 1: 10 1/2, 0, 43, Cement, 0, 43, 16. Row 2: 6, 43, 130.

How was seal placed: Method [] A [] B [X] C [] D [] E [] Other Backfill placed from ft. to ft. Material Gravel placed from ft. to ft. Size of gravel

(6) CASING/LINER: Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Casing: 6, +1' 10", 43, .250, [X], [], [X], []. Liner: 4 1/2, 10, 130, [], [X], [], [].

(7) PERFORATIONS/SCREENS: [X] Perforations Method saw [] Screens Type Material. Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Row 1: 76, 129, 3/8x6, 21, [], [], [], [X].

(8) WELL TESTS: Minimum testing time is 1 hour. [] Pump [] Bailer [X] Air [] Flowing Artesian. Yield gal/min 33 Drawdown 54 Drill stem at 129 Time 1 hr.

Temperature of water 13C 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:

LOCATION OF WELL by legal description: County Columbia Latitude Longitude Township 3N N or S Range 2W E or W. WM. Section 23 NW 1/4 NW 1/4 Tax Lot Lot Block Subdivision Street Address of Well (or nearest address) Hillcrest Sub Division, Scappoose, Oregon

(10) STATIC WATER LEVEL: 75 ft. below land surface. Date 4/13/95 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES: Depth at which water was first found 85

Table with columns: From, To, Estimated Flow Rate, SWL. Row 1: 85, 91, 15. Row 2: 91, 111, 15. Row 3: 111, 130, 3.

(12) WELL LOG: Ground Elevation

Table with columns: Material, From, To, SWL. Rows: Top Soil (0-1), Clay Brown-Yellow (1-19), Clay Blue w/siltstone (19-21), Sandstone & Clay Blue-green (21-42), Sandstone gray med (42-45), Shale & Sandstone Blue-w/streaks of green (45-60), Siltstone Brown Med-soft (60-63), Siltstone & Sandstone green-blue med-soft (63-73), Sandstone & Siltstone Blue med-soft (73-85), Sandstone & Siltstone Blue med (85-130).

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Date started 4/12/95 Completed 4/13/95

(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 Chas R McShane WWC Number 1646 Date 4/20/95

(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 J. H. McShane WWC Number 1646 WWC1224 Date 4/21/95

Amend *

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

WELL I.D. # L 0732+ 56738 *
START CARD # 98705

Colu
52048

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

(1) LAND OWNER: Well Number 2
Name Columbia Hills Development
Address 100 E. 3rd Ave #210
City San Mateo State CA Zip 94401

(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 300 ft.
Explosives used Yes No Type _____ Amount _____

HOLE		SEAL		Sacks or pounds	
Diameter	From To	Material	From To		
10"	0 18	Bent	0 18	Bent	10 sacks
8"	18 170	Cement	16 170		3 Sacks
6"	170 300				

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 _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	11	170	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 4.5"	150	300		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
Final location of shoe(s) 170

(7) PERFORATIONS/SCREENS:
 Perforations Method Drill Hole
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
220	280	1/2"	2off			<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
50		300	1 hr.

Temperature of water 57.2 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 Columbia Latitude _____ Longitude _____
Township 3N N or S Range 2W E or W. WM.
Section 22 S_{1/4} NE_{1/4}
Tax Lot 500 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) Ind Callahan Rd
Supp res: CC

(10) STATIC WATER LEVEL:
120 ft. below land surface. Date 2/12/97
Artesian pressure _____ lb. per square inch Date _____

(11) WATER BEARING ZONES:
Depth at which water was first found 280

From	To	Estimated Flow Rate	SWL
280	300	50 gpm	120

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Brown Clay	0	80	
Tan Soft Sandstone	80	120	120
Tan Claystone	120	160	
Blue Sandstone	160	300	

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APR 22 2002

APR 30 2002

WATER RESOURCES DEPT.
SALEM, OREGON

WATER RESOURCES DEPT.
SALEM, OREGON

Date started 2/5/97 Completed 2/12/97

(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 _____ WWC Number _____
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.
Signed AMC/Mud WWC Number 1480
Date 2/17/97

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

WELL I.D. # 03321
 START CARD # 98705

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

(1) **LAND OWNER** Well Number 2
 Name Columbia Hills Development
 Address 100 E. 3rd Ave #210
 City San Mateo State CA Zip 94401

(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 300 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			
Diameter	From	To	Material	From	To	Sacks or pounds
10"	0	18	Bent.	0	18	Bent (10 sacks)
8"	18	170	Cement	160	170	3 Sacks
6"	170	300				

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 _____

(6) **CASING/LINER:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	0	170	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 4.5"	150	300		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
 Final location of shoe(s) 170

(7) **PERFORATIONS/SCREENS:**
 Perforations Method Drill Hole
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
220	280	1/2"	20ft			<input type="checkbox"/>	<input checked="" type="checkbox"/>

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

Yield gal/min	Drawdown	Drill stem at	Time
50		300	1 hr.

Temperature of water 57.0 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 Columbia Latitude _____ Longitude _____
 Township 3N N or S Range 2W E or W. WM.
 Section 22 SW 1/4 NE 1/4
 Tax Lot 500 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) Ind Colleen Rd
Supp. acc. CR

(10) **STATIC WATER LEVEL:**
120 ft. below land surface. Date 2/12/97
 Artesian pressure _____ lb. per square inch Date _____

(11) **WATER BEARING ZONES:**
 Depth at which water was first found 280

From	To	Estimated Flow Rate	SWL
280	300	50 gpm	120

(12) **WELL LOG:**
 Ground Elevation _____

Material	From	To	SWL
Brown Clay	0	80	
Tan Soft Sandstone	80	120	120
Tan Claystone	120	160	
Blue Sandstone	160	300	

Date started 2/5/97 Completed 2/12/97

(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 _____ WWC Number _____ 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.
 Signed A. McNeil WWC Number 1480 Date 2/12/97

Well 7

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

WELL I.D. # L 03338
 START CARD # 98707

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

(1) **LAND OWNER** Well Number _____
 Name Columbia Hills Development Co.
 Address 60 E. 3rd Ave
 City San Mateo State CA Zip 94401

(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 320 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE		SEAL			
Diameter	From To	Material	From To	Sacks or pounds	
10"	0 18	Bentonite	0 18	12 Sacks	
8"	18 80	Cement	70 80	4 Sacks	
6"	80 320				

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 _____

(6) **CASING/LINER:**

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 6"	0	180	25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 4.5"	5	320		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Drive Shoe used Inside Outside None
 Final location of shoe(s) 320

(7) **PERFORATIONS/SCREENS:**
 Perforations Method Drill Hole
 Screens Type _____ Material _____

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
310	290	1/2"	20ft			<input type="checkbox"/>	<input checked="" type="checkbox"/>
200	180	1/2"	20ft			<input type="checkbox"/>	<input checked="" type="checkbox"/>

(8) **WELL TESTS:** Minimum testing time is 1 hour
 Pump Bailor Air Flowing Artesian
 Yield gal/min _____ Drawdown _____ Drill stem at _____ Time _____
55 _____ 320 _____ 1 hr.

Temperature of water 52.0 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 Columbia Latitude _____ Longitude _____
 Township 3N N or S Range 2W E or W. WM.
 Section 22 SW 1/4 NE 1/4
 Tax Lot 500 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) near end Callahan Rd Scappoose, OR

(10) **STATIC WATER LEVEL:**
145 ft. below land surface. Date 3-10-97
 Artesian pressure _____ lb. per square inch Date _____

(11) **WATER BEARING ZONES:**
 Depth at which water was first found 180

From	To	Estimated Flow Rate	SWL
180	320	55 gpm	145

(12) **WELL LOG:**
 Ground Elevation _____

Material	From	To	SWL
Clay	0	75	
Sandstone Blue	75	320	145

RECEIVED
 JUN 19 2018
 RECEIVED
 APR 9 2 2002
 OWRD

Date started 3/4/97 Completed 3/10/97

(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.
 WWC Number 1480
 Signed AMC Date 3/10/97