

RECEIVED

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

Amended Well Log

JAN 12 1999

WELL ID # 22928

(START CARD) # 113153

(1) OWNER:

Name CARPENTER RANCH LLC Address 1930 LEWIS STREET S.E. City SALEM, State OR Zip 97302

Well Number: 22928

(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 [] Community [] Industrial [X] Irrigation [] Thermal [] Injection [] Livestock [] Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval [] Yes [X] No Depth of Completed Well 325 ft. Explosives used [] Yes [X] No Type Amount

Table with columns: Diameter, From, To, Material, From, To, Amount. Rows include BENTONITE and CEMENT.

How was seal placed: Method [] A [] B [] C [] D [] E [X] Other CASING PLACED INTO CEMENT

Backfill placed from 50 ft. to 80 ft. Material BENTONITE Gravel placed from 300 ft. to 325 ft. Size of gravel 1 1/2"

(6) CASING/LINER:

Table with columns: Diameter, From, To, Gauge, Steel, Plastic, Welded, Threaded. Rows for Casing and Liner.

Final location of shoe(s) 155 FT.

(7) PERFORATIONS/SCREENS:

Table with columns: From, To, Slot size, Number, Diameter, Tele/pipe size, Casing, Liner. Includes checkboxes for Perforations and Screens.

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

[] Pump [] Bailer [X] Air [] Flowing Artesian

Table with columns: Yield gal/min, Drawdown, Drill stem at, Time. Values: 300, 305, 1 hr.

Temperature of Water 52 Depth Artesian Flow found

Was a water analysis done? [] Yes [] No By whom

Did any strata contain water not suitable for intended use? [] Too little

[] Salty [] Muddy [] Odor [] Colored [] Other

Depth of strata:

WATER RESOURCES DEPT. SALEM, OREGON

(9) LOCATION OF WELL by legal description:

County HARNEY Latitude Longitude Township 25/S N or S. Range 31/E E or W. of WM. Section 29 SE 1/4 SE 1/4 Tax lot 6200 Lot Block Subdivision Street Address of Well (or nearest address) 198 WEAVER SPRINGS RD., BURNS, OREGON 97720

(10) STATIC WATER LEVEL:

72 ft. below land surface. Date 8/19/98 Artesian pressure lb. per square inch. Date

(11) WATER BEARING ZONES:

Depth at which water was first found 72

Table with columns: From, To, Estimated Flow Rate, SWL. Rows for water bearing zones.

(12) WELL LOG:

Table with columns: Material, From, To, SWL. Lists geological layers like SILT BROWN FINE, SAND BROWN COARSE, etc.

Date started 8/10/98

Completed 8/19/98

(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 my best 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.

Mack Drilling Company, WWC Number 1394 Signed Eugene K. Mack Date 1-11-99

Harm 50340

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

JAN 12 1999

WELL ID # 22928

(START CARD) # 113153

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Instructions for completing this report are on the last page of this form WATER RESOURCES DEPT. SALEM, OREGON

(1) OWNER: Well Number: 22928 Name CARPENTER RANCH LLC Address 1930 LEWIS STREET S.E. City SALEM, State OR Zip 97302

(9) LOCATION OF WELL by legal description: County HARNEY Latitude Longitude Township 25/S N or S. Range 31/E E or W. of WM. Section 29 SE 1/4 SE 1/4 Tax lot 6200 Lot Block Subdivision Street Address of Well (or nearest address) 198 WEAVER SPRINGS RD., BURNS, OREGON 97720

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

(10) STATIC WATER LEVEL: ft. below land surface. Date Artesian pressure lb. per square inch. Date

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

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

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

Table with 4 columns: From, To, Estimated Flow Rate, SWL

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

Table for HOLE and SEAL construction details with columns for Diameter, From, To, Material, Amount

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

(12) WELL LOG: Ground elevation

Large table for well log with columns: Material, From, To, SWL. Includes entries like CLAYSTONE PURPLE MULTI. W/SEAMS, CLAYSTONE BLK HARD W/SEAMS, etc.

(6) CASING/LINER: Diameter From To Gauge Steel Plastic Welded Threaded Casing: Liner: Final location of shoe(s)

Date started 8/10/98 Completed 8/19/98

(7) PERFORATIONS/SCREENS: [] Perforations Method [] Screens Type Material From To Slot size Number Diameter Tele/pipe size Casing Liner

(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 my best knowledge and belief. Signed WWC Number Date

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

(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 Mack Drilling Company, Inc. WWC Number 1394 Date 1-11-99

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

*Harn
50340*

SEP 17 1998

WELL ID # **22928**
 (START CARD) # **113153**

Instructions for completing this report are on the last page of this report. WATER RESOURCES DEPT. SALEM, OREGON

(1) OWNER: Well Number: **22928**
 Name **CARPENTER RANCH LLC**
 Address **1930 LEWIS STREET S.E.**
 City **SALEM, OR** Zip **97302**

(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 **325** ft.
 Explosives used Yes No Type _____ Amount _____

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
17 1/2	0	19	BENTONITE	0	50	30 SACKS
14 1/2	19	305	CEMENT	50	176	51 sacks
12	155	176	CEMENT			
8	305	325				

How was seal placed: Method A B C D E
 Other **CASING PLACED INTO CEMENT**
 Backfill placed from **50** ft. to **80** ft. Material **BENTONITE**
 Gravel placed from **300** ft. to **325** ft. Size of gravel **1 1/2"**

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: 12"	+2	155	.250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) **155 FT.**

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

(8) WELL TESTS: Minimum testing time is 1 hour
 Pump Baller Air Flowing Artesian
 Yield gal/min **300** Drawdown **305** Drill stem at **1 hr.** Time

Temperature of Water **52** Depth Artesian Flow found _____
 Was a water analysis done? Yes By whom **Mack Drilling**
 Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other **134-141**
 Depth of strata: _____

(9) LOCATION OF WELL by legal description:
 County **HARNEY** Latitude _____ Longitude _____
 Township **26/S** N or S. Range **31/E** E or W. of WM.
 Section **28** NW $\frac{1}{4}$ NW $\frac{1}{4}$
 Tax Lot **6000** Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address)
198 WEAVER SPRINGS RD., BURNS, OREGON 97720

(10) STATIC WATER LEVEL:
72 ft. below land surface. Date **8/19/98**
 Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:
 Depth at which water was first found **72**

From	To	Estimated Flow Rate	SWL
134	141	15	72
176	185	500	72
275	306	500+	72

(12) WELL LOG: Ground elevation _____

Material	From	To	SWL
SILT BROWN FINE	0	3	
SAND BROWN COARSE	3	14	
SANDSTONE BROWN	14	18	
SANDSTONE BROWN W/ROCK BLK	18	33	
SANDSTONE GREEN & GRAY	33	50	
CLAYSTONE BROWN SILTY	50	62	
CLAYSTONE BLUE W/ROCK	62	74	
BASALT GREY MED. HARD	74	76	
BASALT GREY W/CLAYSTONE SEAMS	87	97	
BASALT GREY W/CLAYSTONE INTERBED	97	110	
BASALT GREY MED. TO SOFT	110	117	
BASALT WITH CLAYSTONE GREY	117	119	
BASALT MED TO SOFT FRX.	119	121	
BASALT SOFT MULTI-COLORED	121	134	
SANDSTONE BROWN FRX. LT. CAVEY	134	141	72
SANDSTONE BROWN W/SOME GREEN	141	143	
CLAYSTONE LT. BROWN WEATHERED	143	150	
BASALT WITH CLAYSTONE BLUE	150	159	
CLAYSTONE BLUE SOFT	159	161	
BASALT WITH CLAY BLUE	161	163	
BASALT WITH CLAYSTONE	163	170	
CLAY & CLAYSTONE GREEN	170	176	
SANDSTONE WHITE WITH WOOD HARD	176	178	72
WOOD PETRIFIED	178	180	72

Continued on next page

Date started **8/10/98** Completed **8/19/98**

(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 my best knowledge and belief.

Signed *Jan M. Williams* WWC Number **1454**
 Date **8-31-98**

(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 *Engene O. Ullrich* WWC Number **1394**
 Date **8/31/98**
Mack Drilling Company, Inc.

