

RECEIVED

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

*Harn  
50339*

Amended Well Log **JAN 12 1999**

WELL ID # **22929**

(START CARD) # **113154**

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

WATER RESOURCES DEPT.  
SALEM, OREGON

(1) OWNER: Well Number: **22929**  
Name **CARPENTER RANCH, LLC**  
Address **1930 LEWIS STREET SE**  
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 ROAD BURNS, OR 97720**

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

(10) STATIC WATER LEVEL:  
**107** ft. below land surface. Date **8/28/98**  
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 **280**

(4) PROPOSED USE:  
 Domestic  Community  Industrial  Irrigation  
 Thermal  Injection  Livestock  Other \_\_\_\_\_

From	To	Estimated Flow Rate	SWL
280	290	50 GPM	107
290	330	200 GPM	107
330	355	500+ GPM	107
410	425	200 GPM	107

(5) BORE HOLE CONSTRUCTION:  
Special Construction approval  Yes  No Depth of Completed Well **445** ft.  
Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount
Diameter	From	To	Material	From	To	sacks or pounds
17.5"	0	139	CEMENT	2	39	15 SACKS
12"	39	355	BENTONITE	0	2	1 SACK
10"	355	455				

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 \_\_\_\_\_

Material	From	To	SWL
SAND BROWN	0	4	
RYOLITE TUFF DECOMPOSED BR SOFT	4	12	
RYOLITE TUFF BR MED	12	35	
RYOLITE GREY HARD	35	125	
RYOLITE TUFF GREY W/CLAYSTONE	125	130	
CLAYSTONE GREY SOFT	130	135	
SANDSTONE DARK GREY W/CLAYSTONE	135		
SEAMS VARIGATED		145	
CLAYSTONE GREY & GREEN SOFT-MED	145	200	
CLAYSTONE W/SANDSTONE STREAKS	200		
GREY		215	
CLAYSTONE TAN W/SANDSTONE STREAKS		215	
WHITE		235	
SANDSTONE VARIGATED	235	255	
CLAYSTONE GREEN MED TO HARD	255	265	
CLAYSTONE GREY SOFT	265	275	
SANDSTONE GREEN W/TAN SEAMS	275	280	
SANDSTONE GREEN W/CLAYSTONE SEAM		280	
		290	
CLAYSTONE GREEN SOFT	290	295	
SHALE BLACK HARD	295	310	
SANDSTONE GREEN W/SHALE SEAMS	310	330	
BASALT BLACK HARD	330	344	
BASALT BROWN FX	344	350	

(6) CASING/LINER:  
Casing: Diameter **12"** From **+1** To **39** Gauge **.250** Steel  Plastic  Welded  Threaded   
Liner: Diameter **10"** From **+1** To **355** Gauge **.250** Steel  Plastic  Welded  Threaded   
Final location of shoe(s) **39'-12" - 355'-10"**

Date started **8/20/98** Completed **8/29/98**

(7) PERFORATIONS/SCREENS:  
 Perforations Method **AIR PERFORATED**  
 Screens Type **SLOTS** Material **STEEL**  
From **310** To **350** Slot size **1/4"** Number **2240** Diameter **1"** Tele/pipe size **10"** 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 **500** Drawdown \_\_\_\_\_ Drill stem at **350** Time **1 hr.**

(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, Inc. WWC Number **1394**  
Signed *Eugene O. Mack* Date **1-11-99**

STATE OF OREGON  
**WATER SUPPLY WELL REPORT**

(as required by ORS 537.765)  
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*Harney  
50339*

WELL ID # **22929**

(START CARD) # **113154**

Page 2

(1) OWNER: Well Number: **22929**

Name **CARPENTER RANCH, LLC**  
 Address **1930 LEWIS STREET SE**  
 City **SALEM** State **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 \_\_\_\_\_ ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

HOLE			SEAL			Amount 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 \_\_\_\_\_

(6) CASING/LINER:

Diameter	From	To	Gauge	Material			
				Steel	Plastic	Welded	Threaded
Casing:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) \_\_\_\_\_

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Material	
						Casing	Liner
						<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  Bailer  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time

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 **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 ROAD BURNS, OR 97720**

(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 \_\_\_\_\_

From	To	Estimated Flow Rate	SWL

(12) WELL LOG: Ground elevation \_\_\_\_\_

Material	From	To	SWL
<b>SANDSTONE LIGHT GREY &amp; WHITE FX</b>	<b>350</b>	<b>354</b>	
<b>DIORITE GREY &amp; BLACK COARSE GRAIN</b>	<b>354</b>	<b>410</b>	
<b>TUFF STONE BALCK GREY GREEN</b>	<b>410</b>	<b>425</b>	
<b>CLAYSTONE GREEN</b>	<b>425</b>	<b>435</b>	
<b>CLAYSTONE BROWN SAND &amp; SOFT</b>	<b>435</b>	<b>445</b>	

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**JAN 12 1999**

**WATER RESOURCES DEPT.  
SALEM, OREGON**

Date started **8/20/98** Completed **8/29/98**

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 Signed \_\_\_\_\_ WWC Number \_\_\_\_\_  
 Date \_\_\_\_\_

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 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 *Eugene P. Mack* WWC Number **1394**  
 Mack Drilling Company, Inc. Date **1-11-99**

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**WATER SUPPLY WELL REPORT**  
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 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 **445** ft.  
 Explosives used  Yes  No Type \_\_\_\_\_ Amount \_\_\_\_\_

Diameter	HOLE		Material	SEAL		Amount sacks or pounds
	From	To		From	To	
17.5"	0	139	CEMENT	2	39	15 SACKS
12"	39	355	BENTONITE	0	2	1 SACK
10"	355	455				

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 \_\_\_\_\_

(8) CASING/LINER:

Diameter	From	To	Gauge	Material			
				Steel	Plastic	Welded	Threaded
Casing: 12"	+1	39	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner: 10"	+1	355	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) **39'-12" - 355'-10"**

(7) PERFORATIONS/SCREENS:

Perforations Method **AIR PERFORATED**  
 Screens Type **SLOTS** Material **STEEL**

From	To	Slot size	Number	Diameter	Tela/pipe size	Casing	Liner
310	350	1/4"	2240	1"	10"	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Pump  Bailor  Air  Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
500		350	1 hr.

Temperature of Water **56** 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 \_\_\_\_\_  
 Depth of strata: \_\_\_\_\_

WATER RESOURCES DEPT.  
 SALEM, OREGON  
 RELOCATION OF WELL by legal description:  
 County **HARNEY** Latitude \_\_\_\_\_ Longitude \_\_\_\_\_  
 Township **25/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 ROAD BURNS, OR 97720**

(10) STATIC WATER LEVEL:  
**107** ft. below land surface. Date **8/28/98**  
 Artesian pressure \_\_\_\_\_ lb. per square inch. Date \_\_\_\_\_

(11) WATER BEARING ZONES:  
 Depth at which water was first found **290**

From	To	Estimated Flow Rate	SWL
280	290	50 GPM	107
290	330	200 GPM	107
330	355	500+ GPM	107
410	425	200 GPM	107

(12) WELL LOG:  
 Ground elevation \_\_\_\_\_

Material	From	To	SWL
SAND BROWN	0	4	
RYOLITE TUFF DECOMPOSED BR SOFT	4	12	
RYOLITE TUFF BR MED	12	35	
RYOLITE GREY HARD	35	125	
RYOLITE TUFF GREY W/CLAYSTONE	125	130	
CLAYSTONE GREY SOFT	130	135	
See next line	135	145	
SANDSTONE DARK GREY W/CLAYSTONE SEAMS VARIGATED	145	200	
CLAYSTONE GREY & GREEN SOFT-MED	145	200	
See next line	200	215	
CLAYSTONE W/SANDSTONE STREAKS GREY	215	235	
See next line	235	255	
CLAYSTONE TAN W/SANDSTONE STREAKS WHITE	235	255	
SANDSTONE VARIGATED	255	265	
CLAYSTONE GREEN MED TO HARD	265	275	
CLAYSTONE GREY SOFT	275	280	
SANDSTONE GREEN W/TAN SEAMS	280	290	
See next line	290	295	
SANDSTONE GREEN W/CLAYSTONE SEAMS	290	295	
CLAYSTONE GREEN SOFT	295	310	
SHALE BLACK HARD	310	330	
SANDSTONE GREEN W/SHALE SEAMS	310	330	
BASALT BLACK HARD	330	344	
BASALT BROWN FX	344	350	

Continued on next page  
 Date started **8/20/98** Completed **8/29/98**

(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 *[Signature]* WWC Number **1954**  
 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 *[Signature]* WWC Number **1384**  
 Date **9/31/98**  
**Mack Drilling Company, Inc.**

