STATE OF OREGON WATER SUPPLY WELL REPORT

(as required by ORS 537.765 & OAR 690-205-0210)

05-27-2008

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RILLARRI#I	06130	

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START CARD# 1003342

(1) LAND OWNER Owner Well I.D.	(9) LOCATION OF WELL (legal descripti	ion)
First Name JUDY Last Name KNAPP	County Deschutes Twp 14.00 S N/S Rang	ge_10.00 E E/W WM
Company WILLOWS PROPERTIES	Sec 21 NW 1/4 of the SE 1/4 Tax	
Address PO BOX 1270		
City SISTERS State OR Zip 97760	Lat 44 °20 '42.000" or 44.34500000	DMS or DD
(2) TYPE OF WORK New Well Deepening Conversion	Tax Map Number Lot Lat 44 20 42.000 or 44.34500000 Long -121 32 23.000 or -121.53972222	DMS or DD
Alteration (repair/recondition) Abandonment	Street address of well Nearest addre	≒88
(3) DRILL METHOD	70190 INDIAN FORD RD SISTERS	
Rotary Air Rotary Mud Cable Auger Cable Mud	(40) CM A MY C VI A MY D Y WY	
Reverse Rotary Other	(10) STATIC WATER LEVEL Date SWL	(psi) + SWL(ft)
(4) PROPOSED USE Domestic Irrigation Community	Existing Well / Predeepening	
Industrial Commercial Livestock Dewatering	Completed Well 05-22-2008	230
Thermal Injection Other	Flowing Artesian? Dry H	Iole?
	WATER BEARING ZONES Depth water was fir	rst found 455
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy)		VL(psi) + SWL(ft)
Depth of Completed Well 610.00 ft.	05-22-2008 455 590 300	230
BORE HOLE SEAL sacks/ Dia From To Material From To Amt lbs		
12 0 18 Bentonite Chips 0 18 11 S		
8 18 610 Bestionie Comps V 18 11 3		
	(1) WELL LOC	
	(11) WELL LOG Ground Elevation 3,165	
How was seal placed: Method A B C D E		From To
Other Poured Dry	Sand Pumice Brown	0 1
Backfill placed from ft. to ft. Material	Clay Brown Basalt Black	1 4
Filter pack from fl. to fl. Material Size	Lava Grav	4 45
Explosives used: Yes Type Amount	Basalt Black	45 95 95 155
(6) CASING/LINER	Volcanic Mud Flow Brown	155 183
Casing Liner Dia + From To Gauge Stl Plate Wld Thrd	Basalt Gray	183 225
	Sandstone Brown	225 260
	Basalt Clay Seams Red Brown	260 312
	Basalt Black	312 400
	Basalt Clay Seams Brown Sandstone Brown	400 415
	Basalt Gray Broken Clay Sand Seams	415 440 440 455
Shoe Inside Outside Other Location of shoe(s)	Conglomerate Brown	455 535
Temp casing Yes Dia From To	Basalt Clay Seams Brown	535 565
(7) PERFORATIONS/SCREENS	Conglomerate Brown	565 590
Perforations Method	Lava Gray Hard	590 610
Screens Type Material		
Perf/S Casing/ Screen Scrn/slot Slot # of Tele/	Date Started 05-21-2008 Completed 05-	
creen Liner Dis From To width length slots pipe size		-22-2008
	(unbonded) Water Well Constructor Certification	
	I certify that the work I performed on the construction, abandonment of this well is in compliance with Or	, deepening, alteration, or
	construction standards. Materials used and information	
	the best of my knowledge and belief.	
(8) WELL TESTS: Minimum testing time is 1 hour	License Number 758 Date 05-27	7 2000
Pump Bailer Air Flowing Artesian	Electronically Filed	-2008
0	Signed THOMAS R PECK (E-filed)	
Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) 300 600 1	(bonded) Water Well Constructor Certification	
367	I accept responsibility for the construction, deepening,	alteration or abandonment
	work performed on this well during the construction dates	
Temperature 51 °F Lab analysis Yes By	performed during this time is in compliance with Or	regon water supply well
Water quality concerns? Yes (describe below RECEINGED Units	construction standards. This report is true to the best of m	1y knowledge and belief.
From To Description File Carbonit Units	License Number 1720 Date 05-27-2	9008
	Electronically Filed	
JAN 1 4 2009	Signed JACK ABBAS (E-filed)	
	Contact Info (optional)	

STATE OF OREGON WATER SUPPLY WELL REPORT (as required by ORS 537.765 & OAR 690-205-0210)

07-08-2008

WELL LABEL # L	96139

(1) LAND OWNER Owner Well I.D. First Name JUDY Company WILLOWS PROPERTIES Address P O BOX 1270 City SISTERS State OR Zip 97759 (2) TYPE OF WORK New Well Deepening Conversion Alteration (repair/recondition) Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Dewatering Thermal Injection Other	Long _121 ° 32 '23.000" or _121.53972222 D © Street address of well Nearest address 70190 INDIAN FORD RD (10) STATIC WATER LEVEL	E/W WM OMS or DD OMS or DD
Company WILLOWS PROPERTIES Address P O BOX 1270 City SISTERS State OR Zip 97759 (2) TYPE OF WORK New Well Deepening Conversion Alteration (repair/recondition) Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering	County Deschutes Twp 14.00 S N/S Range 10.00 E	MS or DD
Company WILLOWS PROPERTIES Address P O BOX 1270 City SISTERS State OR Zip 97759 (2) TYPE OF WORK New Well Deepening Conversion Alteration (repair/recondition) Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering	Sec 21 NW 1/4 of the SE 1/4 Tax Lot 2101 Tax Map Number	
City SISTERS State OR Zip 97759 (2) TYPE OF WORK New Well Deepening Conversion Alteration (repair/recondition) Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering	Tax Map Number Lot Lat 44 °20 '42.000" or 44.34500000 D Long -121 °32 '23.000" or -121.53972222 D Street address of well Nearest address 70190 INDIAN FORD RD (10) STATIC WATER LEVEL Date SWL(psi) + S	
(2) TYPE OF WORK New Well Deepening Conversion Alteration (repair/recondition) Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering	(6 Street address of well (Nearest address 70190 INDIAN FORD RD (10) STATIC WATER LEVEL Date SWL(psi) + S	
Alteration (repair/recondition) Abandonment (3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering	(6 Street address of well (Nearest address 70190 INDIAN FORD RD (10) STATIC WATER LEVEL Date SWL(psi) + S	ows of DD
(3) DRILL METHOD Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering	70190 INDIAN FORD RD (10) STATIC WATER LEVEL Date SWL(psi) + S	
Rotary Air Rotary Mud Cable Auger Cable Mud Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Dowatering	(10) STATIC WATER LEVEL Date SWL(psi) + S	
Reverse Rotary Other (4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Dowatering		
(4) PROPOSED USE Domestic Irrigation Community Industrial/ Commercial Livestock Downstering		
Industrial/ Commercial Livestock Dewatering	Existing Well / Predeepening 07 01 2000	WL(ft)
	Completed Well 07-02-2008	230
Thermal Injection Other	Flowing Artesian? Dry Hole?	230
	WATER BEARING ZONES Depth water was first found 618	
(5) BORE HOLE CONSTRUCTION Special Standard Attach copy	SWL Date From To Est Flow SWL(psi) + s	WL(ft)
Depth of Completed Wellft.	07-01-2008 629 656 50	230
BORE HOLE SEAL sacks/ Dia From To Material From To Annt lbs		230
Dia From To Material From To Amt lbs 14 0 20 Bentonite Chips 0 20 15 S	07-02-2008 720 792 200	230
12 20 618		
8 618 792	(11) WELL LOG Ground Elevation	
How was seal placed: Method A B C D E	Material From	To
Other Poured Dry	Lava Gray Hard 610	629
Backfill placed from ft. to ft. Material	Lava Red Vesicular 629	656
Filter pack from ft. to ft. Material Size	Basalt Fractured Layers 656 Cinders Basalt 667	667
Explosives used: Yes Type Amount	Describ Constant Description	720
(6) CASING/LINER	Basalt Fractured Layers 720	780
Casing Liner Dia + From To Gauge Stl Plate Wid Thrd	Basalt Broken 780	792
0 10 2 618 .250 0 2 2		
Shoe Inside Outside Other Location of shoe(s)		
Shoe Inside Outside Other Location of shoe(s) Temp casing Yes Dia From To		
Temp casing Yes Dia From To		
Temp casing Yes Dia From To 7) PERFORATIONS/SCREENS Perforations Method Machine		
Temp casing Yes Dia From To 7) PERFORATIONS/SCREENS Perforations Method Machine Screens Type Material		
Temp casing	Date Started 06-09-2008 Completed 07-02-2008	
Temp casing Yes Dia From To 7) PERFORATIONS/SCREENS Perforations Method Machine Screens Type Material Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ screen Liner Dia From To width length slots pipe size	<u>00-03-2408</u>	
Temp casing	Date Started 06-09-2008 Completed 07-02-2008 (unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a	lteration, or
Temp casing Yes Dia From To 7) PERFORATIONS/SCREENS Perforations Method Machine Screens Type Material Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ screen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a	upply well
Temp casing Yes Dia From To 7) PERFORATIONS/SCREENS Perforations Method Machine Screens Type Material Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ screen Liner Dia From To width length slots pipe size	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a	upply well
Temp casing	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief.	upply well
Temp casing Yes Dia From To PERFORATIONS/SCREENS Perforations Method Machine Screens Type Material Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ Perf Casing 10 558 618 .125 3 1,140 Streen Liner Dia From To width length slots pipe size Perf Casing 10 558 618 .125 3 1,140 Streen Liner Dia From To width length slots pipe size Perf Casing 10 558 618 .125 3 1,140	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above	upply well
Temp casing Yes Dia From To	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number 758 Date 07-08-2008	upply well
Temp casing Yes Dia From To	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number 758 Date 07-08-2008 Electronically Filed	upply well
Temp casing Yes Dia From To	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number 758 Date 07-08-2008 Electronically Filed Signed THOMAS R PECK (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deepening, alteration, or a	aupply well are true to
Temp casing Yes Dia From To PerFORATIONS/SCREENS Perforations Method Machine Screens Type Material Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ recen Liner Dia From To width length slots pipe size Perf Casing 10 558 618 125 3 1,140 SWELL TESTS: Minimum testing time is 1 hour Pump Bailer Air Flowing Artesian Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) 450 790 2	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number758 Date07-08-2008 Electronically Filed SignedTHOMAS R PECK (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deepening, alteration, or a work performed on this well during the construction dates reported above	aupply well are true to abandonment
Temp casing Yes Dia From To Perforations Method Machine Screens Type Material	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number 758 Date 07-08-2008 Electronically Filed Signed THOMAS R PECK (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deepening, alteration, or a	abandonment ve. All work supply well
Temp casing Yes Dia From To Perforations Method Machine Screens Type Material	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number758 Date07-08-2008	abandonment ve. All work supply well
Temp casing Yes Dia From To PERFORATIONS/SCREENS Perforations Method Machine Screens Type Material Perf/S Casing/ Screen Scrn/slot Slot # of Tele/ Perf/S Casing 10 558 618 .125 3 1,140 Perf/Casing 10 558 618 .125 3 1,140 Pump Bailer Air Flowing Artesian Yield gal/min Drawdown Drill stem/Pump depth Duration (hr) 450 2 2 Pemperature 51 °F Lab analysis Yes By Water quality concerns? Yes (describe below)	(unbonded) Water Well Constructor Certification 1 certify that the work I performed on the construction, deepening, a abandonment of this well is in compliance with Oregon water a construction standards. Materials used and information reported above the best of my knowledge and belief. License Number 758 Date 07-08-2008 Electronically Filed Signed THOMAS R PECK (E-filed) (bonded) Water Well Constructor Certification I accept responsibility for the construction, deepening, alteration, or a work performed on this well during the construction dates reported above performed during this time is in compliance with Oregon water construction standards. This report is true to the best of my knowledge	abandonment ve. All work supply well and belief.
(6) CASING/LINER Casing Liner Dia + From To Gauge Sti Plate Wid Thrd	Basalt Fractured Layers 720	

ORIGINAL - WATER RESOURCES DEPARTMENT
THIS REPORT MUST BE SUBMITTED TO THE WATER RESOURCES DEPARTMENT WITHIN 30 DAYS OF COMPLETION OF WORK
SALEM, OREGON

Form Version: 0.88

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

instructions for completing this report are on the last page of this form.				
(1) LAND OWNER Well Number				
Address 70190 Indian Ford Rd	Tax Lot 2105			
City State OR Zip 97760	Township 14 Section 21	S Range 10	E	WM
(2) TYPE OF WORK		_" or	(degrees or	1/4 decimal)
(3) DRILL METHOD Reference of the Cable Auger Cable Mud Other	Street Address of Well (or a 79190 inclian Ford Rd			
(4) PROPOSED USE ☑ Domestic ☐ Community ☐ Industrial ☐ Irrigation ☐ Thermal ☐ Injection ☐ Livestock ☐ Other		w land surface. D	nate <u>1-10-05</u>	
(5) BORE HOLE CONSTRUCTION Special Construction: Yes Depth of Completed Well 500 ft.	Arter in pressure	lb. per square inch D		
Explosives used: Yes 🗹 No Type Amount	Depth at which water was fi			
BORE HOLE SEAL Disputer From To Sucks or Po	From		d Flow Rate S	WL
12 0 18.5 BE 8 18.6 13 Sacks	482 446	120+	226	
8 18.5 500				
How was seal placed: Method	(12) WELL LOG	Ground Elevation		
Backfill placed from ft. to ft. Material	Material	From	To S'	WL.
Gravei placed fromft. toft. Size of gravel	Top Soil and Boulders Hard Grey Lava		181	
(O.C.A.CTNCA TNED	Brown Clevatone	181	205	
(6) CASING/LINER Diameter From To Gauge Steel Plastic Welded The	14 15	205	231	
Casing: 8 +1.5 18.5 .250 2	Mild Brown Lava	231	268	
<u> </u>	Brown Clayatone	268	282	
Liner:	Brown Sandstone Hard Grey Lava Brown Claystone	282 325	325	
Liner:	Brown Claystone	385	402	
Liner:	Brown sandstone	402	446 226	
Drive Shoe used Inside Outside None	Brown Claystone	446	500	
Final location of shoe(s)				
	_			
(7) PERFORATIONS/SCREENS				
Perforations Method	— 		40.00	
From To Slot Number Diameter Tele/pipe Cooling E	Date Started 1-4-05	Completed 1-		
Skte stat	(HEDONGOE) WASET WELL CO			ration, or
	abandonment of this well is	n compliance with Orego	on water supply well	
·		erials used and information	on reported above are	true to
	Inc ocs of any kindwicoge and	a penet.	_	
	WWC Number 1819	Mate 1	NOS /	
(\$) WELL TESTS: Minimum testing time is 1 hour	Signed	(6) N M	J. lh	
	(bonded) Water Well Con	de la latera	W. W.	
Yield gal/min Drawdown Drill stems at Time 140+ 0 490 3 Hours	I accept responsibility for	the construction, deepe	ning, alteration, or	
	abandonment work performed			
above. All work performed during this time is in compliance will supply well construction standards. This report is true to the best				
Temperature of water 40 Depth Artesian Flow Found and belief.				
Was a water analysis done? Yes By whom	NOW O No. 4 4800	D 4		
Did any strata contain water not saitable for intended sec?				
□ Sulty □ Muddy □ Odor □ Colored □ Other □ Signed □ Signed				
Depth of strata:	Signed			
	<u> </u>			

ORIGINAL - WATER RESOURCES DEPARTMENT

FIRST COPY - CONSTRUCTOR

SECOND COPY - CUSTOMER 06/16/2004

RECEIVED

JAN 28 2005

WATER RESOURCES DEPT SALEM, OREGON

RECEIVED

JAN 1 4 2009

WATER RESOURCES DEPT SALEM, OREGON

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

(1) LAND OWNER

(2) TYPE OF WORK

(3) DRILL METHOD

(4) PROPOSED USE

☑ Domestic ☐ Com

Commun

Depth of Completed Well \$60 fi Explosives used: Yes X No Type

Frem Ta

BORE HOLE

How was seal placed: Method

Other See previous log

Backfill placed from

(6) CASING/LINER

Final location of shoe(s)_

Perforations Screens

(8) WELL TESTS: Mini

Yield gal/min

Gravel placed from

Liner: 6

Name Judy Kriano Address PO BOX 1270

City Sisters

Other

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

Well Number

State OR

Livestock

(5) BORE HOLE CONSTRUCTION Special Construction: Yes M No

Material

ft. 10

Type

Drive Shoe used 🔲 Inside 🔲 Outside 📈 None

Size

1/8x4

□ Beiler

Was a water analysis done? Tyes By whom Did any strata contain water not suitable for intended use?

Salty Muddy Odor Colored Other

(7) PERFORATIONS/SCREENS

☐ New Well

☐ Deepening ☑ Alteration (repair/recondition) ☐ Abandonment ☐ Conve

Rotary Air C Rotary Mud Cable Auger Cable Mud

Desc 56617

Zip 97759

☐ Irrigation

Te

□A □B □C □D □E

Size of gravel

Materia!

☐ Flowing Artesian

ō

Time

☐ Too little

Material

Other

Fram

ft.

Machined

Drill stem at

74531

START CARD# 171940 (9) LOCATION OF WELL (legal description) Tex Lot 2105 Township 14 Range 10 WM 1/4 NE Section 21 SW 1/4 (degrees or de Street Address of Well (or near 70190 Indian Ford Rd (10) STATIC WATER LEVEL Artesian pressure ib. per square inch Date (11) WATER BEARING ZONES Depth at which water was first found SWL **Estimated Flow Rate** (12) WELL LOG Material Installed 6 inch .188 liner pipe -5 to 500 feet / SWL Dute Started 2-23-05 Completed 2-23-05 (unbonded) Water Well Constructor Certification I certify that the work I performed on the construction, deeper ent of this well is in compliance with Oregon water supply well in standards. Materials used and information reported above are nded) Water W it work performed on this well during the construction dates reported above. All work performed during this time is in compl supply well construction standards. This report is true to the best of my knowledg and belief. WWC Number 1822

ORIGINAL - WATER RESOURCES DEPARTMENT

FIRST COPY - CONSTRUCTOR

SECOND COPY - CUSTOMER

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RECEIVED

JUL 22 2005

WATER RESOURCES DEPT SALEM, OREGON

RECEIVED

MAR 1 1 2005

WATER RESOURCES DEPT SALEM, OREGON

WATER RESOURCES DEPT SALEM, OREGON

JAN 1 4 2009