Completion Checklist for CWRE Claims of Beneficial Use Application #	10692
Date Received 10/12/20/0	
CWRE Name fact Wattenburge Claim Logged	•
Oversized Map # 0542 folder T	
Read the file and attach a copy of the permit or transfer final order.	•
	,
WRD	
Map Review:	
Map on polyester film (OAR 690-014-0170(1) & 310-0050(1)(b)	•
Application & permit #; or transfer # (OAR 690-014-0100(1)	
Disclaimer (OAR 690-014-0170(5)	,
North arrow (OAR 690-310-0050(2)(c) EWRE stamp and signature (OAR 690-014 & 310-0050)	
Appropriate scale (1" = 1320', 1" = 400', or the original full-size scale of the county assessor map) (014 a	& 310)
Pownship, range, section, and tax lot numbers (OAR 690-310-0050(4)	,
Source illustrated if surface water (OAR 690-014-0170(3)	
Point(s) of diversion or appropriation (illustrated) (OAR 690–014(4) & 690-310-0050)	
Point(s) of diversion or appropriation (coordinates)(OAR 690–014(4) & 690-310-0050)	
Conveyance structures illustrated (pump, pipelines, ditches, etc.) (OAR 690-310-0050) Description of the location, in relation to the point of diversion or appropriation, of any fish screens, by-	ass devices.
and measuring devices required (OAR 690–014(4)	, 1155 to 1 1005,
Place of use (1/4 1/4, or projected 1/4 1/4 lines within DLCs, or Gov Lots; if irrigation, # of acres in each	ı subdivisior
if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 6	90-380-
6010)	
Day and Daydowy	
Report Review:	
On form or format provided by the Department (OAR 690-014-0100(1)	
Application & permit #; or transfer # (OAR 690-014)	
Ownership information (OAR 690-014)	
Date of survey (OAR 690-014)	
Person interviewed (OAR 690-014)County (OAR 690-014)	
Tax lot information (OAR 690-014)	
Description of conveyances system (from POD to POU) (OAR 690-014-0100)	
Source(s) of water (OAR 690-014-0100)	
Point of diversion/appropriation location (OAR 690-014-0100)	•
Use, period of use, and rate for use (OAR 690-014-0100)	
Place of use location (OAR 690-014-0100) Type of use (OAR 690-014-0100)	
Extent of use (OAR 690-014-0100)	
Rate and Duty (OAR 690-014-0100)	
Diversion rate for each use (OAR 690-014-0100)	
Diversion works description (pump make, serial model, capacity, and description) (OAR 690-014-0100)	
System capacity (OAR 690-014-0100)	
Calculated capacity of system (required) Measured amount of use (optional)	
Permit/Transfer Final Order Conditions (OAR 690-014-0100)	
Time limits	
Initial water level measurements	
Annual static water level measurements	
Measurement, recording, and reporting	
Meter/measuring device Water use reporting	
Fish screening and/or by-pass	
Pump test (ground water)	
Other conditions	
· · · · · · · · · · · · · · · · · · ·	
(OAP 600.014.0100)	
CWRE stamp and signature (OAR 690-014-0100) Signature(s) of permittee of transfer holder (OAR 690-014-0100)	
N DYELIGHT ((2) OF DOLUMETON OF MEMBERS HOLDER (OTTICO)	

DEF = deficient N/A = Not Applicable

CLAIM OF BENEFICIAL USE for Permits claiming more than 0.1 cfs and All Transfers



Oregon Water Resources Department 725 Summer Street NE, Suite A Salem, Oregon 97301-1266 (503) 986-0900 www.wrd.state.or.us

A fee of \$150 must accompany this form to be accepted for <u>permits</u> with a priority date of July 9, 1987, or later. (ORS 536.050(1))

A separate form shall be completed for each permit.

In cases where a permit has been amended through the permit amendment process, a separate claim for the permit amendment is not required. Incorporate the permit amendment into the claim for the permit.

This form is subject to revision. **Begin each new claim** by checking for a new version of this form at: http://www.wrd.state.or.us/OWRD/WR/cwre_info.shtml#.

The completion of this form is required by OAR 690-014-0100(1) and 690-014-0110(4).

Please type or print in dark ink. If this form is found to contain errors or omissions, it may be returned to you. **Every item must have a response.** If any requested information does not apply to the claim, insert "NA." **Do not delete or alter any section of this form unless directed by the form.** The Department may require the submittal of additional information from any water user or authorized agent.

If you have questions regarding the completion of this form, please call 503-986-0900 and ask for the Certificate Section.

The Department has a program that allows it to enter into a voluntary agreement with an applicant for expedited services. Under such an agreement, the applicant pays the cost to hire additional staff that would not otherwise be available. This program means a certificate may be issued in about a month. For more information on this program see http://www.wrd.state.or.us/OWRD/mgmt_reimbursement_authority.shtml.

SECTION 1 GENERAL INFORMATION

WATER RESOLUTIONS (RE)

OCT 1 2 2010

1. File Information

APPLICATION # (G, R, S or T)	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
Т-10692	·	

2. Property Owner (current owner information)

APPLICANT/BUSINESS NAME		PHONE NO	Э.	ADDITIONAL CONTACT NO.
Hale Farms, LLC		(541) 376	-5055	(541) 376-5057 (fax)
ADDRESS				
73120 Highway 207				
CITY	STATE	ZIP	E-Mail	
Echo	OREGON	97826	creeder@h	ale-co.com

If the current property owner is not the permit or transfer holder of record, it is recommended that an assignment be filed with the Department. The COBU must be signed by the permit or transfer holder of record.

3. Is the Property Owner the permit or transfer holder of record?

YES (



If "YES" the remainder of this item may be deleted.

Permit or transfer holder of record (this may, or may not, be the current property owner)

PERMIT OR TRANSFER HOLDER	OF RECORD		
EMA TRUST, DATED JANUARY	24, 2001		
Address			
PO BOX 278			
Сіту	STATE	ZIP	
PENDLETON	OREGON	97801	

Are there additional permit or transfer holders of record?

YES



4. Date of Site Inspection:

August 6th, 2010

5. Person(s) interviewed and description of their association with the project:

NAME	DATE	Association with the Project
Craig Reeder	8/6/2010	General Manager, Hale Farms, LLC

- 6. County: Umatilla
- 7. If any property described in the place of use of the permit or transfer final order is excluded from this report, identify the owner of record for that property (ORS 537.230(4)):

**Mark "NA" if there are no owners of property not included in this claim

OWNER OF RECORD NA			
ADDRESS			OCT 1 2 2010
Сіту	STATE	ZIP	WATER RESOURCES DEPT

Are there additional Owners of Record?



NO

ADDITIONAL OWNER OF RECORD Gerald W. Crow Jr. and Charee	(Tax	(Lot 1400 Sec 7 & 8 T3N, R30E, W.M.)	
Address			
26 Becket Street			
Сіту	STATE	ZIP	
Lake Oswego	OREGON	97035	

ADDITIONAL OWNER OF RECORD		
Crow Family Properties Oregon Limited	d (Tax L	ots 400 & 1300 Sec 5 & 8 T3N, R30E, W.M.)
ADDRESS		
8145 SW Edgewater		
Сіту	STATE	Zip
Wilsonville	OREGON	97070

SECTION 2

SYSTEM DESCRIPTION

A. Points of Diversion/Appropriation

1. Point of diversion/appropriation name or number:

POINT OF DIVERSION/APPROPRIATION (POD/POA) NAME OR NUMBER	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL	WELL TAG # (IF APPLICABLE)
(CORRESPOND TO MAP) Hale #3	(IF APPLICABLE) UMAT 1295, UMAT 1288	
Hale #8	UMAT 1300, UMAT 1299	
Coppinger #1	UMAT 54853	L 34669
Coppinger #3	UMAT 1326, UMAT 5402	
Ditchen Land Company #1	UMAT 1369, UMAT 1370, UMAT 6092	
Ditchen Land Company #2	UMAT 1361	

Attach each well log available for the well (include the log for the original well and any subsequent alterations, reconstructions, or deepenings)

2. Point of diversion/appropriation source and, if from surface water, the tributary:

POD/POA Name or Number	Source	Tributary
Hale #3	Stage Gulch – Sub Area H	
Hale #8	Stage Gulch – Sub Area H	
Coppinger #1	Stage Gulch – Sub Area H	
Coppinger #3	Stage Gulch – Sub Area H	
Ditchen Land Company #1	Stage Gulch – Sub Area H	
Ditchen Land Company #2	Stage Gulch – Sub Area H	

3. Developed use(s), period of use, and rate for each use:

POD/POA Name or Number	USES	IF IRRIGATION, LIST CROP TYPE	SEASON OR MONTHS WHEN WATER WAS USED	RATE OR VOLUME FOR USE (CFS, GPM, or AF)
Hale #3	Irrigation of 370.45 acres	Rotation including grass, peas, onions, potatoes, Timothy, wheat.	Growing Season	1,700 gpm
Hale #8	Same	Same	Growing Season	600 gpm
Coppinger #1	Same	Same	Growing Season	2,400 gpm
Coppinger #3	Same	Same	Growing Season	550 gpm
Ditchen Land Co. #1	Same	Same	Growing Season	2,100 gpm
Ditchen Land Co. #2	Same	Same	Growing Season	1,000 gpm
Total Quantity of Wa	ater Used			900 gpm

4. Provide a general narrative description of the distribution works. This description must trace the water system from **each** point of diversion or appropriation to the place of use:

Water is pumped from the six wells (points of appropriation) through an extensive buried interconnect pipeline network to the places of use (center pivots.) The map on the following page shows this system.

From Hale Well #3 water can flow through approximately 4,350 feet of 10 inch PVC pipe to a point where water can be supplied to Pivot 502 through approximately 1,350 feet of 8 inch PVC pipe or continue on through approximately 2,730 feet of 10 inch PVC pipe to a second point. From this second point water can be supplied to Pivot 504 through approximately 1,370 feet of 8 inch PVC pipe or continue on through approximately 1,370 feet of 8 inch PVC pipe. At Pivot 503 water can be supplied to that pivot or continue on through approximately 2,630 feet of 8 inch PVC pipe to supply Pivot 505.

From Hale Well #8 water can flow through approximately 2,660 feet of 10 inch steel pipe to where it is connected to a new 20 inch PVC pipe. From this point water can flow through approximately 1,470 feet of 20 inch PVC pipe to a point new Hale Well #5. Water can flow from this point north through approximately 4,110 feet of 24 inch PVC pipe to a point near Hale Well #7. At this point water can continue through two paths. One path would be through approximately 1,710 feet of 12 inch PVC pipe past Pivot 9, through approximately 2,550 feet of 10 inch PVC pipe past Pivot 10, and through approximately 1,670 feet of 8 inch PVC pipe to tie-in at Hale Well #3. The second path would be to continue through approximately 3,580 feet of 24 inch PVC pipe to a point where it is connected to a 10 inch pipe. From this point water could continue through approximately 4,120 feet of 10 inch pipe to a point where it ties back into a new 18 inch PVC pipe. Water could continue through approximately 1,850 feet of 18 inch PVC pipe and approximately 6,330 feet of 12 inch PVC pipe, past Pivot 501, to the point where water can be supplied to Pivots 503 and 504.

From Coppinger Well C1 water can flow north through approximately 6,500 feet of 10 inch steel pipe past Pivots 43 and 42 to Pivot 41. Water can flow on past Pivot 41 through approximately 2,620 feet of 8 inch steel pipe to Pivot 1. And water can flow on past Pivot 1 through approximately 1,810 feet of 10 inch PVC pipe to where it is connected to the new 20 inch PVC pipe (same as from Hale Well #8.) From this point water can follow the same route as from Hale Well #8.

From Coppinger Well C3 water can flow north through approximately 3,770 feet of 8 inch PVC pipe, past Pivot 4a, continuing north through approximately 2,540 feet of 8 inch steel pipe to Hale Well #8. From this point water can follow the same route as from Hale Well #8.

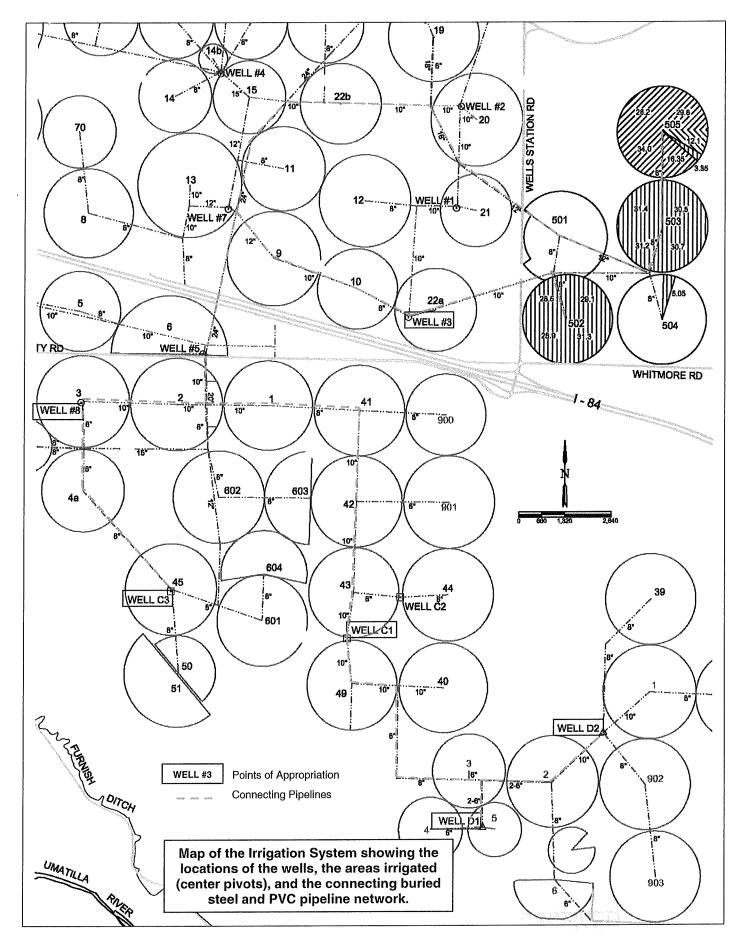
From Ditchen Land Co. Well D1 water can flow north through approximately 1,350 feet of two 6 inch PVC pipes to a tee in Pivot 3. From this tee water can flow west through approximately 2,460 feet of 8 inch PVC pipe and north through approximately 2,630 feet of 8 inch PVC pipe to a tie-in to a 10 inch pipe. From this tie-in water can flow through approximately 1,310 feet of 10 inch PVC pipe and 1,300 feet of 10 inch steel pipe, past Pivot 49, to Coppinger Well C1. From this point water can follow the same route as from Coppinger Well C1.

From Ditchen Land Co. Well D2 water can flow through approximately 2,030 feet of 10 inch PVC pipe and 2,010 feet of two 6 inch PVC pipes, past Pivot 2, to the tee in Pivot 3. From this point water can follow the same route as from Ditchen Land Co. Well D1.

0CT 1.2 2010

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SECTION 2

SYSTEM DESCRIPTION (B through H)

Are there multiple PODs or POAs? There are a total of six POAs.



NO

If "YES" you will need to copy and complete Sections 2B through 2H for each POD/POA.

POD/POA Name or Number this section describes (only needed if there is more than one):

Hale -	Well#3			

B. Place of Use

1. Is the right for municipal use?





Twp	Rng	MER	SEC	Q-Q	GLot	DLC	Use	IF IRRIGATION,	If Irrigation, #
								# Primary	SUPPLEMENTAL
		and Europe					The same	ACRES	Acres
3N	30E	W.M.	5	NESW	400		Irrigation	29.8	
3N	30E	W.M.	5	NWSW	400		Irrigation	28.2	
3N	30E	W.M.	5	SW SW	400		Irrigation	34.0	
3N	30E	W.M.	5	SE SW	400		Irrigation	31.8	
3N	30E	W.M.	7	NE SE	1400		Irrigation	29.1	
3N	30E	W.M.	7	NW SE	1400		Irrigation	28.5	
3N	30E	W.M.	7	SW SE	1400		Irrigation	28.9	
3N	30E	W.M.	7	SE SE	1400		Irrigation	31.3	
3N	30E	W.M.	8	NE NW	1300		Irrigation	30.5	
3N	30E	W.M.	8	NWNW	1300		Irrigation	31.4	
3N	30E	W.M.	8	SW NW	1300		Irrigation	31.2	
3N	30E	W.M.	8	SE NW	1300		Irrigation	30.7	
3N	30E	W.M.	8	NE SW	1400		Irrigation	5.05	
P23 . T .								270.45	
Total A	Acres Irr				D Y			370.45	ton Onantons (OO) and if

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?



NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

Manufacturer	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Layne & Bowler			Turbine		

3. Motor Information

MANUFACTURER	Horsepower
US	350

4. Theoretical Pump Capacity

Horsepower	OPERATING	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP	TOTAL PUMP
The Paul	PSI	*If a well, the water level	TO PLACE OF USE	OUTPUT
		DURING PUMPING		(IN CFS)
350	51	510		3.88

5. Provide pump calculations:

BHP = 350 hp WHP = BHP x Eff_{pump} WHP = 350 hp x 0.80 = 280 hp

WHP = $Q(gpm) \times TDH(feet) / 3960 \quad Q(gpm) = 3960 \times WHP / TDH(feet)$

TDH(feet) = Lift(feet) + [Pressure(psi) x 2.31] + Losses(feet) = 510 ft + [51 psi x 2.31] + 9 ft = 637 ft

 $Q(gpm) = 3960 \times 280 / 637 = 1{,}740 \ gpm \qquad Q(cfs) = Q(gpm) / 448.831 = 1{,}740 \ gpm / 448.831 = 3.88 \ cfs$

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER	ENDING METER	DURATION OF TIME	TOTAL PUMP OUTPUT
READING	READING	Observed	(IN CFS)
McCrometer	Instantaneous Reading	1,700 gpm	3.79

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

If "NO" items 8 through item 11 may be deleted.

(YES)

NO

8. Mainline Information From well (POA) to specified center pivots (irrigated acres.)

MAINLINE SIZE	LENGTH	Type of Pipe	BURIED OR ABOVE GROUND
10"	7,080'	PVC	Buried

9. Lateral or Handline Information NA

LATERAL OR HANDLINE SIZE	LENGTH	Түре оғ Ріре	BURIED OR ABOVE GROUND
8**	6,720°	PVC	Buried

10. Sprinkler Information NA

SIZE	OPERATING	SPRINKLER	TOTAL	MAXIMUM	TOTAL SPRINKLER OUTPUT
	PSI	OUTPUT (GPM)	Number of Sprinklers	Number Used	(CFS)
		(Grwi)	OFRINKLERS		

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

MANUFACTURER	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
502 - Valley	1278	50 psi	883 gpm	1.97
503 - Pringle	1310	50 psi	928 gpm	2.07
504 - Valley	1280	50 psi	886 gpm	1.97
505 - Pringle	1310	50 psi	928 gpm	2.07

12. Additional notes or comments related to the system:

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?



NO

If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well: 2" access port with a cap.

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
20"	0' to 96'					
16"	0' to 594'	1196'	5/27/72	5/27/82	Circle "C" Farms, Inc.	?

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

UMAT 1295, UMAT 1288

5. Is the appropriation from a dug well (sump)?

VES



E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)

YES



F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

VES



If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

YES



H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

YES



Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

POD/POA Name or Number this section describes	(only needed if there is more than one)
---	---

Hale -	· Well #8			

B. Place of Use

1. Is the right for municipal use?

If "YES" the table below may be deleted.



TWP	RNG	MER	SEC	Q-Q	GLOT	DLC	USE	IF IRRIGATION,	IF IRRIGATION, #
		il de la companya de			1956			# Primary	SUPPLEMENTAL
				190 - 190 - 192 193 - 193				ACRES	ACRES
3N	30E	W.M.	5	NE SW	400		Irrigation	29.8	
3N	30E	W.M.	5	NW SW	400		Irrigation	28.2	
3N	30E	W.M.	5	SW SW	400		Irrigation	34.0	
3N	30E	W.M.	5	SE SW	400		Irrigation	31.8	
3N	30E	W.M.	7	NE SE	1400		Irrigation	29.1	
3N	30E	W.M.	7	NW SE	1400		Irrigation	28.5	
3N	30E	W.M.	7	SW SE	1400		Irrigation	28.9	
3N	30E	W.M.	7	SE SE	1400		Irrigation	31.3	
3N	30E	W.M.	8	NENW	1300		Irrigation	30.5	
3N	30E	W.M.	8	NW NW	1300		Irrigation	31.4	
3N	30E	W.M.	8	SW NW	1300		Irrigation	31.2	
3N	30E	W.M.	8	SE NW	1300		Irrigation	30.7	
3N	30E	W.M.	8	NE SW	1400		Irrigation	5.05	
PT . T .								370.45	
Total A	cres Irr	igated				1011	ant an a		ter-Quarters (QQ) and if

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

YES

NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

MANUFACTURER MODEL	SERIAL	Type (centrifugal,	INTAKE	DISCHARGE
	Number	TURBINE OR SUBMERSIBLE)	SIZE	SIZE
Layne & Bowler		Turbine		

3. Motor Information

3. Motor information		
MANUFACTURER	Horsepower	
Westinghouse	350	UCLE

4. Theoretical Pump Capacity

HORSEPOWER	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
350	73	560		3.34

5. Provide pump calculations:

BHP = 350 hp $WHP = BHP \times Eff_{pump}$ $WHP = 350 \text{ hp} \times 0.80 = 280 \text{ hp}$

WHP = $Q(gpm) \times TDH(feet) / 3960$ $Q(gpm) = 3960 \times WHP / TDH(feet)$

 $TDH(feet) = Lift(feet) + [Pressure(psi) \times 2.31] + Losses(feet) = 560 \text{ ft} + [73 \text{ psi} \times 2.31] + 11 \text{ ft} = 740 \text{ ft}$

 $Q(gpm) = 3960 \times 280 / 740 = 1,500 \text{ gpm} \qquad Q(cfs) = Q(gpm) / 448.831 = 1,500 \text{ gpm} / 448.831 = 3.34 \text{ cfs}$

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
McCrometer	Instantaneous Reading	600 gpm	1.34

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?



NO

If "NO" items 8 through item 11 may be deleted.

8. Mainline Information From well (POA) to specified center pivots (irrigated acres.)

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND	
24"	7,690'	PVC	Buried	
20"	1,470°	PVC	Buried	
18"	1,850'	PVC	Buried	
12"	8,040'	PVC	Buried	
10,,	12,510'	PVC	Buried	
10,5	4,720'	Steel	Buried	
8**	1,670'	PVC	Buried	

9. Lateral or Handline Information NA

Lateral or Handline Handline Size	Length	Түре оғ Ріре	BURIED OR ABOVE GROUND
8''	6,720'	PVC	Buried

10. Sprinkler Information NA

SIZE	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)
------	---------------	------------------------	----------------------------	------------------------	------------------------------

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

Manufacturer	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
502 - Valley	1278	50 psi	883 gpm	1.97
503 - Pringle	1310	50 psi	928 gpm	2.07
504 - Valley	1280	50 psi	886 gpm	1.97
505 - Pringle	1310	50 psi	928 gpm	2.07

12. Additional notes or comments related to the system:

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?



If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well: 2" access port with a cap.

3. If well logs are not available, provide as much of the following information as possible:

Casing Diameter	CASING DEPTH	DEPTH DATE OF		COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY	
16"	0' to 51'	1492'	ORIGINAL WELL 12/11/78	3/12/79	Circle "C" Farms, Inc.	Pat Wallace	

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

UMAT 1300, UMAT 1299

5. Is the appropriation from a dug well (sump)?



E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)



F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?



If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?



H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

YES



Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

POD/POA Name or Number this section describes (only needed if there is more than one):

Coppinger -	- Well #C1	

B. Place of Use

1. Is the right for municipal use?

If "YES" the table below may be deleted.



NO

TWP	RNG	MER	SEC	Q-Q	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
3N	30E	W.M.	5	NE SW	400	1,000 1	Irrigation	29.8	
3N	30E	W.M.	5	NW SW	400		Irrigation	28.2	
3N	30E	W.M.	5	SW SW	400		Irrigation	34.0	
3N	30E	W.M.	5	SE SW	400		Irrigation	31.8	
3N	30E	W.M.	7	NE SE	1400		Irrigation	29.1	
3N	30E	W.M.	7	NW SE	1400		Irrigation	28.5	
3N	30E	W.M.	7	SW SE	1400		Irrigation	28.9	
3N	30E	W.M.	7	SE SE	1400		Irrigation	31.3	
3N	30E	W.M.	8	NENW	1300		Irrigation	30.5	
3N	30E	W.M.	8	NWNW	1300		Irrigation	31.4	
3N	30E	W.M.	8	SW NW	1300		Irrigation	31.2	
3N	30E	W.M.	8	SE NW	1300		Irrigation	30.7	
3N	30E	W.M.	8	NE SW	1400		Irrigation	5.05	
Total A	cres Irr	igated			1		L	370.45	

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

Manufacturer	MODEL	SERIAL Number	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Lavne & Bowler			Turbine		

3. Motor Information

Manufacturer	A00
MANUELORIDED	Horsepower

4. Theoretical Pump Capacity

Horsepower	OPERATING	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP	TOTAL PUMP
	PSI	*If A WELL, THE WATER LEVEL	TO PLACE OF USE	OUTPUT
		DURING PUMPING		(IN CFS)
400	10	475		5.57

5. Provide pump calculations:

BHP = 400 hp $WHP = BHP \times Eff_{pump}$ $WHP = 400 \text{ hp} \times 0.80 = 320 \text{ hp}$

WHP = $Q(gpm) \times TDH(feet) / 3960$ $Q(gpm) = 3960 \times WHP / TDH(feet)$

 $TDH(feet) = Lift(feet) + [Pressure(psi) \times 2.31] + Losses(feet) = 475 \text{ ft} + [10 \text{ psi} \times 2.31] + 10 \text{ ft} = 508 \text{ ft}$

 $Q(gpm) = 3960 \times 320 / 508 = 2,500 \text{ gpm}$ Q(cfs) = Q(gpm) / 448.831 = 2,500 gpm / 448.831 = 5.57 cfs

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
McCrometer	Instantaneous Reading	2,400 gpm	5.35

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

If "NO" items 8 through item 11 may be deleted.

8 Mainline Information From well (POA) to specified center pivots (irrigated acres.)

ES N

MAINLINE SIZE	LENGTH	Type of Pipe	Buried or Above Ground
24"	7,690'	PVC	Buried
20"	1,470°	PVC	Buried
18"	1,850'	PVC	Buried
12"	8,040'	PVC	Buried
10"	13,500'	PVC	Buried
10"	8,550'	Steel	Buried
8"	1,670'	PVC	Buried
8**	2,620'	Steel	Buried

9. Lateral or Handline Information NA

LATERAL OR HANDLINE SIZE	LENGTH	Түре оғ Ріре	BURIED OR ABOVE GROUND
8"	6,720'	PVC	Buried

10. Sprinkler Information NA

SIZE	OPERATING PSI	SPRINKLER OUTPUT	TOTAL Number of	MAXIMUM Number Used	TOTAL SPRINKLER OUTPUT (CFS)
1190	101	(GPM)	SPRINKLERS		

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

Manufacturer	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)	
502 - Valley	1278	50 psi	883 gpm	1.97	
503 - Pringle	1310	50 psi	928 gpm	2.07	
504 - Pringle	1280	50 psi	886 gpm	1.97	
505 - Pringle	1310	50 psi	928 gpm	2.07	

12. Additional notes or comments related to the system:

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?



NO

If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

Airline

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER		TOTAL DEPTH		COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
16"	+2' to 403'	1095'	4/1/03		Kenneth Coppinger	Pat Wallace

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

UMAT 54853

5. Is the appropriation from a dug well (sump)?

YES



E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)

YES



F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES



If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

YES



H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

YES



Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

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WATCH MEDIC INCED DIRECT SAFEN, OF YORK

POD/POA Name or Number this section describes (only needed if there is more than one):

Copp	inger	102	Well	#C3

B. Place of Use

1. Is the right for municipal use?

If "YES" the table below may be deleted.



Twp	Rng	Mer	SEC	Q-Q	GLOT	DLC	Use	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
3N	30E	W.M.	5	NE SW	400	1210. Self28 (1) 2024 (203	Irrigation	29.8	
3N	30E	W.M.	5	NW SW	400		Irrigation	28.2	
3N	30E	W.M.	5	SW SW	400		Irrigation	34.0	
3N	30E	W.M.	5	SE SW	400		Irrigation	31.8	
3N	30E	W.M.	7	NE SE	1400		Irrigation	29.1	
3N	30E	W.M.	7	NW SE	1400		Irrigation	28.5	
3N	30E	W.M.	7	SW SE	1400		Irrigation	28.9	
3N	30E	W.M.	7	SE SE	1400		Irrigation	31.3	
3N	30E	W.M.	8	NENW	1300		Irrigation	30.5	
3N	30E	W.M.	8	NW NW	1300		Irrigation	31.4	
3N	30E	W.M.	8	SW NW	1300		Irrigation	31.2	
3N	30E	W.M.	8	SE NW	1300		Irrigation	30.7	
3N	30E	W.M.	8	NE SW	1400		Irrigation	5.05	
Total A	Total Acres Irrigated								

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

YE9

NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

MANUFACTURER	Model	SERIAL	Type (centrifugal,	INTAKE	DISCHARGE
		Number	TURBINE OR SUBMERSIBLE)	SIZE	SIZE
Unknown			Turbine		

3. Motor Information

OCT 1 2 2010

4. Theoretical Pump Capacity

Horsepower	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
100	4	343		1.97

5. Provide pump calculations:

BHP = 100 hp $WHP = BHP \text{ x Eff}_{pump}$ WHP = 100 hp x 0.80 = 80 hp

WHP = $Q(gpm) \times TDH(feet) / 3960$ $Q(gpm) = 3960 \times WHP / TDH(feet)$

 $TDH(feet) = Lift(feet) + [Pressure(psi) \times 2.31] + Losses(feet) = 343 \text{ ft} + [4 \text{ psi} \times 2.31] + 7 \text{ ft} = 359 \text{ ft}$

 $Q(gpm) = 3960 \times 80 / 359 = 882 gpm$ Q(cfs) = Q(gpm) / 448.831 = 882 gpm / 448.831 = 1.97 cfs

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (IN CFS)
READING McCrometer	Instantaneous Reading	550 gpm	1.23

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

If "NO" items 8 through item 11 may be deleted.

E) N

NO

8. Mainline Information From well (POA) to specified center pivots (irrigated acres.)

MAINLINE SIZE LENGTH TYPE OF PIPE BUILDING

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
24"	7,690'	PVC	Buried
20"	1,470'	PVC	Buried
18"	1,850'	PVC	Buried
12"	8,040'	PVC	Buried
10"	12,510'	PVC	Buried
10"	4,720'	Steel	Buried
8**	5,440'	PVC	Buried
8**	2,540'	Steel	Buried

9. Lateral or Handline Information NA

LATERAL OR HANDLINE SIZE	LENGTH	Type of Pipe	BURIED OR ABOVE GROUND
8''	6,720'	PVC	Buried

10. Sprinkler Information NA

	(CFS)
(GPM) SPRINKLERS	

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

Manufacturer	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
502 - Valley	1278	50 psi	883 gpm	1.97
503 - Pringle	1310	50 psi	928 gpm	2.07
504 - Pringle	1280	50 psi	886 gpm	1.97
505 - Pringle	1310	50 psi	928 gpm	2.07

12. Additional notes or comments related to the system:

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?



VO

If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

Airline

3. If well logs are not available, provide as much of the following information as possible:

Casing Diameter	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
12"	+1' to 37'	761'	12/3/76	3/14/90	Kenneth Coppinger	Pat Wallace

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

UMAT 1326, UMAT 5402

5. Is the appropriation from a dug well (sump)?

YES



E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)

YES



F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES



If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

YES



H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

YES



Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

And the second s

POD/POA Name or Number this section describes (only needed if there is more than one):

Ditchen	Land	Co	Well	#D1

B. Place of Use

1. Is the right for municipal use?

If "YES" the table below may be deleted.



TWP	RNG	Mer	SEC	Q-Q	GLOT	DLC	USE	IF IRRIGATION, # PRIMARY ACRES	IF IRRIGATION, # SUPPLEMENTAL ACRES
3N	30E	W.M.	5	NESW	400		Irrigation	29.8	1.01.00
3N	30E	W.M.	5	NW SW	400		Irrigation	28.2	
3N	30E	W.M.	5	SWSW	400		Irrigation	34.0	
3N	30E	W.M.	5	SE SW	400		Irrigation	31.8	
3N	30E	W.M.	7	NE SE	1400		Irrigation	29.1	
3N	30E	W.M.	7	NW SE	1400		Irrigation	28.5	
3N	30E	W.M.	7	SW SE	1400		Irrigation	28.9	
3N	30E	W.M.	7	SE SE	1400		Irrigation	31.3	
3N	30E	W.M.	8	NE NW	1300		Irrigation	30.5	
3N	30E	W.M.	8	NW NW	1300		Irrigation	31.4	
3N	30E	W.M.	8	SWNW	1300		Irrigation	31.2	
3N	30E	W.M.	8	SE NW	1300		Irrigation	30.7	
3N	30E	W.M.	8	NE SW	1400		Irrigation	5.05	
Total A	Lcres Irr	igated		i		<u> </u>		370.45	

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?



NO

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

Manufacturer	Model	SERIAL	Type (centrifugal,	INTAKE	DISCHARGE
		Number	TURBINE OR SUBMERSIBLE)	SIZE	SIZE
Unknown			Turbine		

3. Motor Information

Manufacturer	Horsepower
US	250

4. Theoretical Pump Capacity

Horsepower	OPERATING	LIFT FROM SOURCE TO PUMP	LIFT FROM PUMP	TOTAL PUMP
	PSI	*If a well, the water level	TO PLACE OF USE	OUTPUT
		DURING PUMPING		(IN CFS)
250	10	350		4.64

5. Provide pump calculations:

BHP = 250 hp $WHP = BHP \times Eff_{pump}$ $WHP = 250 \text{ hp} \times 0.80 = 200 \text{ hp}$

WHP = $Q(gpm) \times TDH(feet) / 3960$ $Q(gpm) = 3960 \times WHP / TDH(feet)$

 $TDH(feet) = Lift(feet) + [Pressure(psi) \times 2.31] + Losses(feet) = 350 \text{ ft} + [10 \text{ psi} \times 2.31] + 7 \text{ ft} = 380 \text{ ft}$

 $Q(gpm) = 3960 \times 200 / 380 = 2,080 \ gpm \qquad Q(cfs) = Q(gpm) / 448.831 = 2,080 \ gpm / 448.831 = 4.64 \ cfs$

6. Measured Pump Capacity (using meter if meter was present and system was operating)

INITIAL METER	ENDING METER	DURATION OF TIME	TOTAL PUMP OUTPUT
READING	READING	Observed	(IN CFS)
McCrometer	Instantaneous Reading	2,100 gpm	4.68 cfs

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

YES

NO

If "NO" items 8 through item 11 may be deleted.

8. Mainline Information From well (POA) to specified center pivots (irrigated acres.)

MAINLINE SIZE	LENGTH	Type of Pipe	BURIED OR ABOVE GROUND
24"	7,690'	PVC	Buried
20"	1,470'	PVC	Buried
18**	1,850'	PVC	Buried
12"	8,040'	PVC	Buried
10"	14,810'	PVC	Buried
10"	8,550'	Steel	Buried
8"	6,760'	PVC	Buried
8''	2,620'	Steel	Buried
Parallel - 6''	1,350'	PVC	Buried

9. Lateral or Handline Information NA

LATERAL OR	LENGTH	Type of Pipe	BURIED OR ABOVE GROUND
HANDLINE SIZE			
8"	6,720'	PVC	Buried

10. Sprinkler Information NA

Size	OPERATING PSI	SPRINKLER OUTPUT (GPM)	TOTAL NUMBER OF SPRINKLERS	MAXIMUM NUMBER USED	TOTAL SPRINKLER OUTPUT (CFS)

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

Manufacturer	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
502 - Valley	1278	50 psi	883 gpm	1.97
503 - Pringle	1310	50 psi	928 gpm	2.07
504 - Pringle	1280	50 psi	886 gpm	1.97
505 - Pringle	1310	50 psi	928 gpm	2.07

12. Additional notes or comments related to the system:

AM anterior to 10 to 20 to 20

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?



NO

If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

Airline

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER	CASING DEPTH	TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
12"	0' to 73'	835' 1086'	10/21/75	11/3/75 1/15/78	Robert Petrik	Troy Griffin

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

UMAT 1369, UMAT 1370, UMAT 6092

5. Is the appropriation from a dug well (sump)?

YES



E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)

YES



F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

VES



If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

VES



H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

VES



Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

POD/POA Name or Number this section describes (only needed if there is more than one):

30 A . 3	787	*	~		WWT NN	HENN
Ditchen		and	(0.	me	Well	#1)2

B. Place of Use

1. Is the right for municipal use?

If "YES" the table below may be deleted.



TWP	RNG	Mer	SEC	Q-Q	GLOT	DLC	Use	IF IRRIGATION, # PRIMARY	IF IRRIGATION, # SUPPLEMENTAL
								ACRES	ACRES
3N	30E	W.M.	5	NE SW	400		Irrigation	29.8	
3N	30E	W.M.	5	NW SW	400		Irrigation	28.2	
3N	30E	W.M.	5	SW SW	400		Irrigation	34.0	
3N	30E	W.M.	5	SE SW	400		Irrigation	31.8	
3N	30E	W.M.	7	NE SE	1400		Irrigation	29.1	
3N	30E	W.M.	7	NW SE	1400		Irrigation	28.5	
3N	30E	W.M.	7	SW SE	1400		Irrigation	28.9	
3N	30E	W.M.	7	SE SE	1400		Irrigation	31.3	
3N	30E	W.M.	8	NENW	1300		Irrigation	30.5	
3N	30E	W.M.	8	NWNW	1300		Irrigation	31.4	
3N	30E	W.M.	8	SWNW	1300		Irrigation	31,2	
3N	30E	W.M.	8	SE NW	1300		Irrigation	30.7	
3N	30E	W.M.	8	NESW	1400		Irrigation	5.05	
Total A	 Acres Irr	igated						370.45	

Reminder: The map associated with this claim must identify Donation Land Claims (DLC), Government Lots (Gov Lot), Quarter-Quarters (QQ), and if for irrigation, the number of acres irrigated within each projected DLC, Gov Lot, and QQ.

C. Diversion and Delivery System Information

Provide the following information concerning the diversion and delivery system. Information provided must describe the equipment used to transport <u>and</u> apply the water from the point of diversion/appropriation to the place of use.

1. Is a pump used?

If "NO" items 2 through item 6 may be deleted.

2. Pump Information

Manufacturer	MODEL	SERIAL NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Unknown			Turbine		

3. Motor Information

Manufacturer	Horsepower
US	250

4. Theoretical Pump Capacity

Horsepower	OPERATING PSI	LIFT FROM SOURCE TO PUMP *IF A WELL, THE WATER LEVEL DURING PUMPING	LIFT FROM PUMP TO PLACE OF USE	TOTAL PUMP OUTPUT (IN CFS)
250	60	355		3.52

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NO

5. Provide pump calculations:

BHP = 250 hp WHP = BHP x Eff_{pump} WHP = 250 hp x 0.80 = 200 hp

WHP = $Q(gpm) \times TDH(feet) / 3960$ $Q(gpm) = 3960 \times WHP / TDH(feet)$

 $TDH(feet) = Lift(feet) + [Pressure(psi) \times 2.31] + Losses(feet) = 355 \text{ ft} + [60 \text{ psi} \times 2.31] + 6 \text{ ft} = 500 \text{ ft}$

 $Q(gpm) = 3960 \times 200 / 500 = 1,580 \ gpm \qquad Q(cfs) = Q(gpm) / 448.831 = 1,580 \ gpm / 448.831 = 3.52 \ cfs$

6. Measured Pump Capacity (using meter if meter was present and system was operating)

McCrometer	Instantaneous Reading	1,000 gpm	2.23 cfs
READING	READING	OBSERVED	(IN CFS)
INITIAL METER	ENDING METER	DURATION OF TIME	TOTAL PUMP OUTPUT

Reminder: For pump calculations use the reference information at the end of this document.

7. Is the distribution system piped?

If "NO" items 8 through item 11 may be deleted.

8 Mainline Information From well (POA) to specified center pivots (irrigated acres.)

YES

NO

MAINLINE SIZE	LENGTH	TYPE OF PIPE	BURIED OR ABOVE GROUND
24"	7,690'	PVC	Buried
20"	1,470'	PVC	Buried
18''	1,850'	PVC	Buried
12"	8,040'	PVC	Buried
10"	16,840'	PVC	Buried
10"	8,550°	Steel	Buried
8''	6,760'	PVC	Buried
8**	2,620'	Steel	Buried
Parallel - 6"	2,010'	PVC	Buried

9. Lateral or Handline Information NA

LATERAL OR	LENGTH	Type of Pipe	Buried or Above Ground
HANDLINE SIZE			
8"	6,720'	PVC	Buried

10. Sprinkler Information NA

SIZE	OPERATING	SPRINKLER	TOTAL	MAXIMUM	TOTAL SPRINKLER OUTPUT
	PSI	OUTPUT	Number of	Number Used	(CFS)
		(GPM)	SPRINKLERS		

Reminder: For sprinkler output determination use the reference information at the end of this document.

11. Pivot Information

Manufacturer	MAXIMUM WETTED RADIUS	OPERATING PSI	TOTAL PIVOT OUTPUT (GPM)	TOTAL PIVOT OUTPUT (CFS)
502 - Valley	1278	50 psi	883 gpm	1.97
503 - Pringle	1310	50 psi	928 gpm	2.07
504 - Pringle	1280	50 psi	886 gpm	1.97
505 - Pringle	1310	50 psi	928 gpm	2.07

12. Additional notes or comments related to the system:

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)?



VO

If "NO", items 2 through 8 relating to this section may be deleted.

2. Describe the access port (type and location) or other means to measure the water level in the well:

Airline

3. If well logs are not available, provide as much of the following information as possible:

CASING DIAMETER		TOTAL DEPTH	COMPLETION DATE OF ORIGINAL WELL	COMPLETION DATES OF ALTERATIONS	WHO THE WELL WAS DRILLED FOR	WELL DRILLED BY
16"	0' to 78'	1107'	10/21/78		Robert Petrik	Pat Wallace

4. In addition to the information requested in item "3" above, provide any other information which may help the Department locate any well logs associated with this appropriation.

UMAT 1361

5. Is the appropriation from a dug well (sump)?

YES



E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir)

YES



F. Gravity Flow Pipe

(THE DEPARTMENT TYPICALLY USES THE HAZEN-WILLIAM'S FORMULA FOR A GRAVITY FLOW PIPE SYSTEM)

1. Does the system involve a gravity flow pipe?

YES



If "NO", items 2 through 4 relating to this section may be deleted.

G. Gravity Flow Canal or Ditch

(THE DEPARTMENT TYPICALLY USES MANNING'S FORMULA FOR CANALS AND DITCHES)

1. Is a gravity flow canal or ditch used to convey the water as part of the distribution system?

VES



H. Reservoir

1. Does the claim involve a reservoir modified through a transfer?

VEC



Reminder: This section should only be completed if the reservoir right has been modified through the transfer process. If the claim is for a permitted reservoir use the Claim of Beneficial Use form for reservoirs.

If "NO", items 2 through 9 relating to this section may be deleted.

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OCT 1 2 2010

AMERICAN CONTROL

SECTION 3

CONDITIONS

Please pay special attention to this section. All conditions contained in the permit, permit amendment, transfer final order, or any extension final order shall be addressed. Reports that do not address all performance related conditions will be returned.

1. Time Limits:

Permits, transfer final orders, and any extension final orders contain any or all of the following dates; the date when the actual construction work was to begin, the date when the construction was to be completed, and the date when the complete application of water to the proposed use is to be completed by. These dates may be referred to as ABC dates. Describe how the water user has complied with each of the development timelines established in the permit, extension or transfer final order:

	DATE FROM PERMIT OR TRANSFER	DATE ACCOMPLISHED*	DESCRIPTION OF ACTIONS TAKEN BY WATER USER TO COMPLY WITH THE TIME LIMITS
ISSUANCE DATE	4/23/2010		
BEGIN CONSTRUCTION (A)			As of the date of issuance the entire system was already in place.
COMPLETE CONSTRUCTION (B)			
COMPLETE APPLICATION OF WATER (C)	10/1/2015		By May 2010 the application of water was being made.

st MUST BE WITHIN PERIOD BETWEEN PERMIT, TRANSFER FINAL ORDER, OR ANY EXTENSION FINAL ORDER ISSUANCE AND THE DATE TO COMPLETELY APPLY WATER

2. Is there an extension final order(s)?



If "NO", you may delete item 3 in this section.

3. If for a transfer extension order, provide the following information:

Volume	PAGE	DATE EXTENDED TO

- 4. Initial Water Level Measurements:
- Was the water user required to submit an initial static water level measurement?



- Annual Static Water Level Measurements:
- Was the water user required to submit annual static water level measurements?



Annual static water level measurements are already made.

- 6. Pump Test (Required for most ground water permits prior to issuance of a certificate)
- a. Did the permit require the submittal of a pump test?



- 7. Measurement Conditions:
- a. Does the permit, permit amendment, transfer final order, or any extension final order require the installation of a meter or approved measuring device?



NO

If "NO", items 7b through 7f relating to this section may be deleted.

Reminder: If a meter or approved measuring device was required, the COBU map must indicate the location of the device in relation to the point of diversion or appropriation.

b. Have meters been installed?

NO

c. Meter Information

POD/POA Name or #	Make	SERIAL#	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
Hutterite Main Booster	Panametrics DF868	7901	Good condition	13,976.5 ac-ft	March 2010
Echo ID Main Booster	Panametrics DF868	7855	Good condition	3,794.7 ac-ft	March 2010
Hale Well #1	Well not being	used at	this time.		
Hale Well #2	McCrometer	09-04060-10	Good condition	207,254,000 gal.	Prior to Final Order
Hale Well #3	McCrometer	98-5297-10	Good condition	220,602,000 gal.	Prior to Final Order
Hale Well #4	McCrometer	80-12-178	Good condition	450.343 ac-ft	Prior to Final Order
Hale Well #5	McCrometer	92-10-242	Good condition	847.427 ac-ft	Prior to Final Order
Hale Well #6	Well not being	used at	this time.		
Hale Well #7	McCrometer	98-4466-12	Good condition	600.791 ac-ft	Prior to Final Order
Hale Well #8	McCrometer	04-01497-10	Good condition	131.483 ac-ft	Prior to Final Order
Siebel Well	McCrometer	02-02149-12	Good condition	201.320 ac-ft	Prior to Final Order
Coppinger #1	McCrometer	03-02603-10	Good condition	232.960 ac-ft	Prior to Final Order
Coppinger #3	McCrometer	05-01232-8	Good condition	443.831 ac-ft	Prior to Final Order
Ditchen Land Co. #1	McCrometer		Good condition	53.604 ac-ft	Prior to Final Order
Ditchen Land Co. #2	McCrometer	08-00491-10	Good condition	310,621,000 gal.	Prior to Final Order

HALE FARMS PIVOT #	MAKE	SERIAL#	CONDITION (WORKING OR NOT)	CURRENT METER READING	DATE INSTALLED
502	McCrometer	10-01271-08	Good condition	140.281 ac-ft	March 2010
503	McCrometer	10-01284-08	Good condition	111.308 ac-ft	March 2010
504	McCrometer	10-01279-08	Good condition	267.189 ac-ft	March 2010
505	McCrometer	10-01304-08	Good condition	138.479 ac-ft	March 2010

d. If a meter has not been installed, has a suitable measuring device been installed and approved by the Department? NA YES NO

- 8. Recording and reporting conditions
- a. Is the water user required to report the water use to the Department?

If "NO", item 8b relating to this section may be deleted.

b. Have the reports been submitted?

METHOD OF SUBMITTING REPORT	WATER USER REPORTING
(PAPER OR ELECTRONIC)	ID
Electronically each month to OWRD Water Master's	
office in Pendleton.	

If the reports have not been submitted, attach a copy of the reports if available.

(YES)

NO



NO

9.	Fish	n Screening		
a.		any points of diversion required to be screened to prevent fish from entering the point of ersion?	YES	NO
10	. By	-pass Devices		
a.		any points of diversion required to have a by-pass device to prevent fish from ering the point of diversion?	YES	NO
		her conditions required by permit, permit amendment final order, extension final order, sfer final order		
	a.	Were there special well construction standards?	YES	(NO)
	b.	Was submittal of a ground water monitoring plan required?	YES	NO
	c.	Was the water user required to restore the riparian area if it was disturbed?	YES	(NO)
	d.	Was a fishway required?	YES	NO
	e.	Was submittal of a letter from an engineer required prior to storage of water?	YES	(NO)
	f.	Was submittal of a water management and conservation plan required?	YES	NO
	g.	Other conditions?	YES	(NO)
		S" to any of the above, identify the condition and describe the water user's actions to with the condition(s):		

SECTION 4

VARIATIONS

Include a description of variations from the permit, permit amendment final order, extension final order, or transfer final order, (i.e. "The permit allowed three points of diversion. The water user only developed one of the points." or

That order. (i.e. The permit allowed inree points of diversion. The water user only developed one of the points.	Oi
"The permit allowed 40.0 acres of irrigation. The water user only developed 10.0 acres.")	
There were no variations found.	

SECTION 5 ATTACHMENTS

If you are attaching any documents to this report, provide a list:

ATTACHMENT NAME	DESCRIPTION
COBU Map	11" x 17" COBU Map on mylar at a scale of 1inch = 2,640 feet
UMAT 1295	Initial Well Log for Hale Well #3
UMAT 1288	Well Log for Hale Well #3 Reconditioning
UMAT 1300	Initial Well Log for Hale Well #8
UMAT 1299	Well Log for Hale Well #8 Reconditioning
UMAT 54853	Initial Well Log for Coppinger Well C1
UMAT 1326	Initial Well Log for Coppinger Well C3
UMAT 5402	Well Log for Coppinger Well C3 Reconditioning
UMAT 1369	Initial Well Log for Ditchen Land Co. Well D1
UMAT 1370	Well Log for Ditchen Land Co. Well D1 Reconditioning
UMAT 6092	Well Log for Ditchen Land Co. Well D1 Deepening
UMAT 1361	Initial Well Log for Ditchen Land Co. Well D2

SECTION 6 CLAIM SUMMARY

POD/POA	MAXIMUM	CALCULATED	AMOUNT OF	USE	# OF ACRES	# OF ACRES
NAME OR #	RATE	THEORETICAL RATE	WATER		ALLOWED	DEVELOPED
	AUTHORIZED	BASED ON SYSTEM	MEASURED			
Hale Well #3	2.0 cfs Total	3.88 cfs	3.79 cfs	Irrigation	370.45	370.45
Hale Well #8	2.0 cfs Total	3.34 cfs	1.34 cfs	Irrigation	370.45	370.45
Coppinger Well C1	2.0 cfs Total	5.57 cfs	5.35 cfs	Irrigation	370.45	370.45
Coppinger Well C3	2.0 cfs Total	1.97 cfs	1.23 cfs	Irrigation	370.45	370.45
Ditchen Land Co. Well D1	2.0 cfs Total	4.64 cfs	4.68 cfs	Irrigation	370.45	370.45
Ditchen Land Co. Well D1	2.0 cfs Total	3.52 cfs	2.23 cfs	Irrigation	370.45	370.45

Page 27 of 29

SECTION 7

CLAIM OF BENEFICIAL USE MAP

The Claim of Beneficial Use Map must be submitted with this claim. Claims submitted without the Claim of Beneficial Use map will be returned. The map shall be submitted on poly film at a scale of 1" = 1320 feet, 1" = 400 feet, or the original full-size scale of the county assessor map for the location.

Provide a general description of the survey method used to prepare the map. Examples of possible methods include, but are not limited to, a traverse survey, GPS, or the use of aerial photos. If the basis of the survey is an aerial photo, provide the source, date, series and the aerial photo identification number.

The base map was prepared using geo-referenced, high-resolution aerial imagery from USDA-NAIP (2009) and existing water right information. Reference was confirmed using GPS and distances confirmed from county tax lot maps.

	Map Checklist
	e sure that the map you submit includes ALL the items listed below. der: Incomplete maps and/or claims may be returned.)
回	Map on polyester film.
	Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map) $l'' = 2640l'$
W	Township, Range, Section, Donation Land Claims, and Government Lots
7	If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
₩A	Locations of fish screens, fish by-pass devices, meters and measuring devices in relationship to point of diversion or appropriation.
g	Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
U .	Point(s) of diversion or appropriation (illustrated and coordinates)
U	Tax lot boundaries and numbers
KA-	Source illustrated if surface water
U	Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
V	Application and permit number or transfer number
4	North arrow
	Legend
V	CWRE stamp and signature

SECTION 8 SIGNATURES

CWRE Statement, Seal and Signature

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge.



CWRE NAME		PHONE N	Ο,	ADDITIONAL CONTACT NO.	
Dr. Paul Wattenburger	, P.E.	(541) 567	7-0252	(541) 571-1112	
ADDRESS					
IRZ Consulting, LLC	505 East Main Street				
CITY	STATE	ZIP	E-MAIL		
Hermiston	OREGON	97838	paul@irz.co	om	

Permit or Transfer Holder's of Record Signature or Acknowledgement

The facts contained in this Claim of Beneficial Use are true and correct to the best of my knowledge. I request that the Department issue a water right certificate.

Signature	PRINT OR TYPE NAME	DATE
Gj Pl	CRAIG REEDER	09-17-10

The original and first copy of this report are to be filed with the

JUN 2 6 19/ STATE OF OREGON
(S10 (Do not write above this line)

UMAT 1295 State Well No. 3M/29E-12de State Permit No.

within 30 days from the date of well completion.

(1) OWNER:	(10) LOCATION OF WELL:
Name Circle "C" Farms, Inc.	County Umatilla Driller's well number #3
Address Route 2	NR 14 SE 14 Section 12 T. 3N R. 29K W.M.
Echo Oregon 97826	Bearing and distance from section or subdivision corner
(2) TYPE OF WORK (check):	1450' N of the Sk corner of Section 12
Ne / Well 🔀 Deepening 🗌 Reconditioning 🗎 Abandon 🗀	on section line.
If alandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 605 it.
Rotary Driven Domestic Industrial Municipal Cable X Jetted Domestic Industrial Municipal C	Static level 0 ft. below land surface. Date 12/30/71
Dug Bored Irrigation & Test Well Other	Artesian pressure 4 This. per square inch. Date 5/20/72
CASING INSTALLED: Threaded Welded R	(12) WELL LOG: Diameter of well below casing 12!
20 " Diam from 0 ft. to 96 ft. Gage .250	Depth drilled 1189 ft. Depth of completed well 1189 ft.
16 " Diam. from	Formation: Describe color, texture, grain size and structure of materials;
"Diam. fromft. toft. Gage	and show thickness and nature of each stratum and aquiter penetrated, with at least one entry for each change of formation. Report each change in
PERFORATIONS: Perforated? Yes Z No.	position of Static Water Level and indicate principal water-bearing strata.
Type of perforator used	MATERIAL From To SWL
Size of perforations in. by in	see attached sheet
perforations from	
perforations from	
perforations fromft. toft.	
(7) SCREENS: Well screen installed? Yes X No	
Manufacturer's Name	
Type Model No.	
Diam Slot size Set from ft. to ft.	
Diam. Slot size Set from ft. to ft.	OOT 3 & 2030
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	PECELVED. UCT 1 6 ZOTO
Was a pump test made? Tyes No II yes, by whom? Layne Pump	A TABLES AND WORLD ON
Yield: 1650 gal./min. with &O ft. drawdown after & hrs.	- AUG 0.5 2008
2800 " 149 " 1 1 "	7100
" 3450 " 188 " 2 1 "	WATER RESOURCES DEPT
	SALEM, OREGON
Baller test gal,/min, with ft. drawdown after hrs.	15 7 + 40
Artesian flow 400 g.p.m.	6.
perature of water 80Depth artesian flow encountered 617 ft.	Work started June 15 19 71 Completed May 27 19 72
(9) CONSTRUCTION:	Date well drilling machine moved off of well June 3 1972
Well seal-Material used 16" Casing - cement ground	Drilling Machine Operator's Certification:
Well sealed from land surface to	This well was constructed under my direct supervision. Materials used and information reported above are true to my
Diameter of well hore to bottom of seal	best knowledge and belief.
Diameter of well bore below sealin.	best knowledge and belief. [Signed] Market Date June 20, 19.72
Number of sacks of cement used in well seel sacks	(Drilling Machine Operator)
Number of sacks of bentonite used in well sealO sacks	Drilling Machine Operator's License No. 787
Brand name of bentonite	Water Well Contractor's Certification:
Number of pounds of bentonite per 100 gallons	
of water lbs./100 gals.	This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Was a drive shoe used? [XYes] No Plugs Size: location ft.	Name Circle NC" Farms, Inc. (Person, firm or corporation) (Type or print)
Did any strate contain unusable water? 🗌 Yes 👸 No	
Type of water? depth of strata	Address Route 2 Mcho, Oregon
Method of sealing strata off	[Signed] by the
Was well gravel packed? [] Yes K No Size of gravel:	[Signed] Ly (Water Well Contractor)
Gravel placed fromft. toft.	Contractor's License No Date
(USE ADDITIONAL SE	irkts if necessary) spoise-119

E TENGINEER

WELL LOG Well #3 Circle "C" Farms, Inc.

Material	From	То	SWL
Top Soil	0	4	
Sandy Clay - Brown	4	12	
Clay & Gravel - Brown	12	24	
Clay - Brown	24	42	
Sandy Clay - Soft	42	58	
Clay - Brown	58	. 73	
Clay & Gravel - Dk Brown	73	84	
Sand & Gravel - Water	84	86	3° .
Broken Basalt - Gray	86	පිපි	31
Basalt - Gray - Hard	88	103	
Installed and scaled 20" casing to 96°			
Basalt - Broken - Gray (water 103-107)	103	107	601
Basalt - Gray	107	123	
Basalt - Black	123	133	
Basalt - Gray	133	151	
Basalt - Gray - Hard	151	203	
Basalt - Broken - Brown Clay	203	215	
Basalt - Gray - Hard	215	411	
Basalt - Black (with water)	411	424	57*
Basalt - Gray - Hard	424	511	
Broken Basalt - Black (with clay)	511	547	
Basalt - Gray	547	577	
Basalt - Black - Broken	<i>5</i> 77	585	38³
Besalt - Gray - Hard	585	605	
Baealt - Black	605	617	•
Basalt - Black - Sand	617	704	0
Basalt - Gray - Hard	704	805	
Basalt - Boulders	805	825	
Basaat - Gray - Hard	825	881	
Basalt → Red → Soft	881	902	OCT 1 2 2010
Basalt - Gray - Soft PECEWED	902	935	
Baselt - Red - Soft	935	944	A STATE OF THE STA
Basalt - Gray - Soft AUG 0 5 2008	944	956	•
Basalt - Red - Soft WATER RESOURCES DEPT	956	971	
Basalt → Gray → Hard SALEM, OREGON	971	1056	
Basalt - Boulders	1056	1105	
Riack Sand - Broken Boulders	13.05	1189	

HALE #3, PAGE 2 OF 3

WATER WELL REPORT STATE OF OREGON



RECFTED

JUN 2 8 1982

WATER RESOURCES DEPT BALEM, OREGON

State Well No.	3h/29E	-12dd
----------------	--------	-------

State Permit No.

(1) OWNER:	(10) LOCATION OF WELL:	•
Name Pudential Ins. Co.	County Umatilla Driller's well num	_{ober} three
Address P O Box 30148	SE 4 SE 4 Section 12 T. JN R	2 <i>9₺</i> ₩.M.
City Pasco, Wash 99302 State	Tax Lot # Lot Blk	Subdivision
(2) TYPE OF WORK (check):	Address at well location:	
New Well □ Deepening □ Reconditioning □ Abandon □		
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed well.	
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 118	ft.
	Static level ft. below land s	urface. Date 5/27/8
Rotary Air Driven Domestic G Industrial Municipal Driven Dug D Irrigation Test Well Other Driven Bored D Thermal: Withdrawal D Reinjection	Artesian pressure lbs. per squ	are inch. Date
Bored Thermal: Withdrawal Reinjection	(12) WELLLOG: Dismeter of well below casin	g 7 7/8
(5) CASING INSTALLED: Steel Plestic	Depth drilled 2 feet ft. Depth of comp	
ne. Threaded □ Welded □	Formation: Describe color, texture, grain size and structure thickness and nature of each stratum and aquifer penetrates	
	for each change of formation. Report each change in position	
"Diam. from	and indicate principal water-bearing strata.	•
LINER INSTALLED:	MATERIAL Fro	
	Black Basalt 119	94 1196 177
(6) PERFORATIONS: Perforated? ☐ Yes ☐ No		
Type of perforator used na	cleaned out tale or siltstone plu	12 CO WA 575
Size of perforations in, by in.	to approx 600 more or less	15 60 717
perforations from ft. to ft.	to approx ood more or ress	
perforations from		
perforations from		
(7) SCREENS: Well screen installed? ☐ Yes ₺ No		
Manufacturer's Name		
Type		
Diam. Slot Size Set from ft. to ft.		•
Diam. Slot Size Set from ft. to ft.	M-100	
(8) WELL TESTS: Drawdown is amount water level is lowered	2003 day and 100 8 20 100	and the gray of the same special
DELOW SIGNATURAGE	TEJEWED	
Was a pump test made? Yes No II yes, by whom?		
gal/min. with ft. drawdown after hra.	AUG 0 5 2008	UCL 11 % ZUTU
Air test gal./min. with drill stem at ft. hrs.	WATER RESOURCES DEPT	<u> </u>
Bailer test gal./min. with ft. drawdown after brs.	SALEM OREGON	of the factors and the second
Artesian flow Artesian flow encountered		
Perature of water revious log hepth artesian flow encountered ft.	Work started 5/25/82 19 Completed	5/27/82 ₁₉
(9) CONSTRUCTION: Special standards: Yes 🗆 No 🖟	Date well drilling machine moved off of well	5/27/82 ₁₉
Well seal Material used	Drilling Machine Operator's Certification:	
Well sealed from land surface to	This well was constructed the my direct superv	ision. Materials used
Diameter of well bore to bottom of seal in.	and information reported about archaic to the last la	nowledge and belief.
Diamster of well bore below sealin.	[Signed] [J. Drilling Machine Operator)	ate
Number of sacks of cament used in well seal sacks	Drilling Machine Operator's License No	5.4
How was cement grout placed?		
·	Water Well Contractor's Certification: This well was drilled under my jurisdiction and	this popul to turn to
West worm installed?	Ale best of mer becaused an and besting	
Was a drive shoe used? 🖂 Yes 🕱 No Plugs Size; location	Nome Larry Burd Well Drilling Inc	.9
Did any strata contain unusable water? Thes 🖈 No	Address 5513 S W Douglas Pendleton,	(Type or print) Ore
Type of Water? depth of strata	·	
Method of sealing strata off	[Signed] Water Well Contractor's License No. 5111 Date 6/3/82	
Was well gravel packed? 🔲 Yes 🛣 No Size of gravel:	Contractor's License No. 5144 Date 6/3/82	
Gravel placed from		

6-64 NOTICE TO WATER WELL CONTRACTOR The original and first copy of this regul WELL REPOR are to be filed with the WATER RESOURCES DEPARTMENT: DEC 141978 TATE OF OREGON SALEM, OREGON 97310 within 30 days from the dawATER RESOURCES nO SALE above this line) State Permit No. SALEM. OREGON (10) LOCATION OF WELL: (1) OWNER; County HINNTILLA Driller's well number Name SF KNW 14 Section Address Bearing and distance from section or subdivision corner (2) TYPE QF WORK (check): Reconditioning [] New Well Deepening [Abandon 🗌 If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (4) PROPOSED USE (check): (3) TYPE OF WELL: Depth at which water was first found 128 Rotary Driven 🗌 ft. below land surface. Date Domestic 🗆 Industrial 🗋 Municipal 🗍 Jetted 🔲 Cable Irrigation Test Well | Other Dug Bored Artesian pressure lbs, per square inch. Date 15" To 450 FT. Diameter of well below casing . CASING INSTALLED: Threaded | Welded | WELL LOG: ft to 5/ tt. Gage 1250 Depth drilled 1492 ft. Depth of completed well /492 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-hearing strata. PERFORATIONS: Perforated? | Yes | No. MATERIAL Type of perforator used Soil Size of perforations in. by CLAV GRAVEL __ perforations from ____ 80 BASALT ROLON perforations from ARD REV periorations from MELES. OFT (7) SCREENS: Well sersen installed? | Yes HARO Manufacturer's Name . MED. ... Model No. . ARD 198 BROWN 11 290 Slot size Set from . Diam. Slot size ... Set from ____ 290 2/2 2 Broken (8) WELL TESTS: HARD e &y 449'B-693 Was a pump test made? | Yes | No It yes, by whom? BROWEN HARD gal./min. with Yield: ft. drawdown after hru. BROKEN 1018 " 1342 1408 SIE Bailer test gal./min. with ft. drawdown after hrs. MEDI Artesian flow erature of water Depth artesian flow encountered Completed Work started 10 7 Date well drilling machine moved off of well (9) CONSTRUCTION: Drilling Machine Operator's Certification: Well seal-Material used .. This well was constructed under my direct supervision.

Materials used and information reported above are true to my best knowledge to belief

[Signed] Date 13-11, 19.73 Well sealed from land surface to .. Diameter of well bore to bottom of seal . Diameter of well bore below seal (Drilling Machine Operator) Number of sacks of cement used in well seal

Drilling Machine Operator's License No. .. How was cement grout placed? Water Well Contractor's Certification:

Contractor's License No.

This well was drilled under my jurisdiction and this report is true to the hest of my knowledge and belief. Name A. Address 2662 E.C.

(USE ADDITIONAL SHEETS IF NECESSARY)

depth of strate

SIZOWATER NESOURCES D

SALEM OREGON

Did any strata contain unusable water?

Yes

No

No

Yes

No

Yes

No

Type of water?

Type of water?

Method of sealing strata off

Was well gravel packed? [] Yes ANO

Gravel placed fromft. to

a 4 50 TER WELL REPORTATION AT NOTICE TO WATER WELL CONTRACTOR

The original and first copy of the sport

are to be filed with the STATE OF OREGON WATER RESOURCES DEPARTMENTAR 1 91979 (Please type or print) within 30 days from the date of well complete MATER RESOURCES DEPLOT write above this line) State Permit No. SALEM OREGON (1) OWNER (10) LOCATION OF WELL: County UMATILLA Driller's well number Name JE 14 11014 Section 14 Address (2) TYPE OF WORK (check): Reconditioning Abandon 🔲 New Well [Deepening [If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (4) PROPOSED USE (check): (3) TYPE OF WELL: Depth at which water was first found Rotary Driven D Domestic [Industrial [Municipal [Static level ft, below land surface. Date Cable Jetted Irrigation X Test Well [] Other Bored lbs, per square inch. Date Artesian pressure 0585 CASING INSTALLED: Threaded | Welded | Diameter of well below casing ____ ft. Gage _____ ft. to .____ ft. Gage _____ Depth of completed well " Diam. from ft. to ft. Gage ... Formation: Describe color, texture, grain size and structure of materials; tt. to _____ ft. Gage " Diam. from 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. PERFORATIONS: Perforated? Yes No. MATERIAL Type of perforator used Size of perforations in, by ... perforations from ft, to perforations from ft. to (7) SCREENS: Well screen installed? ☐ Yes ☐ No Manufacturer's Name Diam. ____ Slot size Set from Diam. Slot size Set from Drawdown is amount water level is clowered below static level / August (8) WELL TESTS: LAYNE TOD Was a pump test made? Yes □ No If yes, by whom? CED. gal./min. with ft. drawdown after hra. Bailer test gal./min. with ft. drawdown after hrs. Artesian flow g.p.m. Depth artesian flow encountered perature of water £t. Completed Date well drilling machine moved off of well (9) CONSTRUCTION: Brilling Machine Operator's Certification: Well seal-Material used This well was constructed under my direct supervision. Materials used supervision reported above are true to my best knowledge faller Well sealed from land surface to Dismeter of well bore to bottom of seal in. [Signed] ... Diameter of well bore below seal in. Number of sacks of coment used in well seal Drilling Machine Operator's License No. How was cement grout placed? Water Well Contractor's Certification: This well was drilled under my jurisdiction and this report is true to the best of my knowledge and bedge. Was a drive shoe used? 🗌 Yes 🗍 No Plugs Did any strata contain unusable water? Yes I'No Type of water? depth of strata Method of sealing strata off Was well gravel packed? U Yes U No. Size of gravel COLUMN SUFF

(USE ADDITIONAL SHEETS IF NECESSARY)

Contractor's License No.

SP*45655-119

RECEIVED UMAT 54853

STATE OF OREGON

JUN 2 6 2003

WATER SUPPLY WELL REPORT

(as required by ORS 537.765) WATER RESOURCES DEPT Instructions for completing this report are control of the completing this control of the completing this

WELL I.D. # L 34669 START CARD # 147797

			- 20
(1) LAND OWNER Well Number	(9) LOCATION OF WELL by legs		
Name Kenneth Coppinger	County Mmatila Latitude_		
Address 74238 Coppinger Lane	Township 34 N or S Ran		И.
City Echo State OR Zip 97826	Section 24 NE 1/4		
(2) TYPE OF WORK	Tax Lot 2600 LotB1	ockSubdivision	
■ New Well □ Deepening □ Alteration (repair/recondition) □ Abandonment	Street Address of Well for nearest address	:ss) 75235 Coppinger	Lan
(3) DBILL METHOD:	Echo, OR 9782	26	
[☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger	(10) STATIC WATER LEVEL:		
Other	345 ft. below land surface.	Date 4-1	1-03
(4) PROPOSED USE:	Artesian pressurelb. pe	r square inch Date	
☐ Domestic ☐ Community ☐ Industrial	(11) WATER BEARING ZONES:		
☐ Thermal ☐ Injection ☐ Livestock ☐ Other		110	
(5) BORE HOLE CONSTRUCTION:	Depth at which water was first found	ald	
Special Construction approval Yes WNo Depth of Completed Well 25 ft.	From To	Estimated Flow Rate	SWL
Explosives used Yes No Type Amount	612 645	1007 3	45
HOLE SEAL	8/3 860		45
Diameter From To Material From To Sacks or pounds 22 0 25 Centent 0 443 260 Sacks	973 1016		45
	1048 1072		45
19" 25 403	7078 7076	7007	fred.
15" 403 695			
How was seal placed: Method A B C D E	(12) WELL LOG:		
· '	Ground Elevation		
Other Backfill placed from ft. to ft. Material	Material	From To S	SWL
Backfill placed fromft. toft. Material	Silty soil	0 4	
	Brownclay	4 13	
(6) CASING/LINER: Diameter From To Gauge Steel Plastic Welded Threaded	Clay with gravel	15 19	
Cusing: 16" +2 1403 -375 B	Brown clay	19 103	\neg
	Brown baselt	103 116	
	Grev basalt	116 136	
	Brown basalt	156 170	
Liner: RECEIVEDO		170 235	
Aug 1 to 2003	Grav besalt Brown basalt	235 249	
Drive Shoe used Inside Outside None	Brown basalt hard	249 308	
Final location of shoc(s) WATER RESOURCES DEDT	Red basalt	308 315	
(7) PERFORATIONS/SCREENS: SALEM, OREGON		315 389	
Perforations Method	Gray baselt	389 395	
Screens Type Material	Brown besalt	395 612	-
Slot Tele/pipe	Gray basalt		125
From To size Number Diameter size Casing Liner	Gray & black basalt	612 645 W	
	with soapstone	177 0 00	
	Gray basalt	643 813	e
		Conto	9.K
	<u> </u>		
(8) WELL TESTS: Minimum testing time is 1 hour	Date started /-17-03 Con	npleted 4-1-0.3	
Flowing	(unbonded) Water Well Constructor Certifi	cation:	
□ Pump □ Bailer □ Air □ Artesian	I certify that the work I performed on the	construction, alteration, or abandon	-
	ment of this well is in compliance with Orego		
	standards. Materials used and information repondenced and belief.	oned above are trac to the best of it	ıy
		WWC Number	
	Signed	Dute	
Temperature of water Depth Artesian Flow Found 2.200	(bonded) Water Well Constructor Certificat	ion:	
Was a water analysis done? Yes By whom	I accept responsibility for the construction	, alteration, or abandonment work	
Diff	performed on this well during the construction	dates reported above. All work	
	performed during this time is in compliance we construction standards. This raport is true to th	nn Oregon water supply well esbest of my knowledge and belief.	
Depth of strata:	por all 1	WWC Number	
WATER RESOURCES DEPT	Signed / almest Wall	Date 4-15-	23
ORIGINAL LWATER RESOURCES DEFANTMENTON FIRST C	OPY - CONSTRUCTOR SECONI	D COPY - CUSTOMER	

WAT		PLY W	ELL RE	PORT					WELL I.D. # START CAR	L	nem	
	equired by			eport are o	the last	nose of thi	s form		SIARI CAR	D#_/*_/	77/	
(1) L	ND OV	NER		VNAS F	Well Nu		3 101 UI.	(9) LOCATION (OF WELL by lega	description:	Longitude	
	s 75		8000	nger	Lane	P _		Township 3A	N or S Ran	c 29E	E or W	. WM.
	Echi			State		Zip	97826	Section 24	NE 1/4	NE	1/4	, ,,,,,,
	PE OF		7		1				_LotBlo			
☐ New	Well 🗆	Deepen	ing □Al	teration (repa	ir/recondit	ion) 🗆 Aba	andonment	Street Address of	Well for nearest address	15) 75235		
	RILL MI			Carlo Co								
Othe	-] Kotary	/ Mud 📋	Cable []/	Auger				below land surface.			******
	OPOSE								lb. per	square inch	Date	
			•	ndustrial [-			(11) WATER BEA	RING ZONES:			
	mal 🔲			ivestock [Other_			Depth at which water	was first found			
			NSTRU	CTION; es □ No De	sub of Co	mpleted W	.t) fe					
				DE				From	То	Estimated	riow Mate	SWL
Explosi	HOLE	ا دعادا		SEAL		HOUIN				 		
Diamete	r From	To	Materi		To	Sacks or pe	abnuc		 	 		
										 		+
								I				
									<u> </u>			
	لببل		A T. 43 . 1			<u> </u>	ΠE	(12) WELL LOG:				
	us seal pla r		Method	UA L] B 🗆	C D	CLE	Gro	und Elevation			
-			ft. to_	fi	Materia	1	-	Mat	erial	From	To	SWL
			fi. to_			gravel		Par 2 Cast F	OR Pa. 15			
	SING/L							Red 4 gra		813	860	WB
(0, 0.1	Diameter			auge Steel	Ptastic	Welded	Threaded	with	Sogpstone			
Casing:				🗆				Gray Base	10	860	973	
_				🗆				Black basa	It with	975	1016	NB
_		ļ		□				SORPST	one			
-		ļ		🗆				Gray basal		1016	1048	
Liner: _	·	 		🗆				Red & gray	base/+	1048	1072	WB
n	-	<u> </u>						With S	apstone		ļ <u>.</u>	
				de 🗌 None				Gray base	2/4	1072	1095	
-			/SCREE!								ļ	
	erforation							<u> </u>				
□ Se	creens								20 10002 9000			
•		Slot			Tele/pip			RECEI	VED-			
From	To	size	Number	Diameter	size	Casing	Liner	JUN 2 (2003			
	 		 		-	_ 🛚		JUN & C	3 2002			
			1		ļ	_ ;;		WATER RESCU	HCES DEPT	······································		
	\vdash		1		 	_ 🖺		SALEM, O	HEGON-		-	
						لبا ب			17-03 Com		1.45	
(8) WE	LL TES	TS: M	inimum !	testing tim	e is 1 ho	ur Flow	ina	Date started		pleted	-/-03	
□ Pui	mp	☐ Bai	iler	☐ Air		☐ Artes		(unbonded) Water Wel				
Yleid	gal/min	Drav	пкоры	Drill ste	m st	Ti	mė	ment of this well is in co	k I performed on the compliance with Oregon			
						1	hr.	standards. Materials use				
						1		knowledge and belief.		WWC Nun	than	
				1	-	1		Signed			ate	
				N41 4 : *				(bonded) Water Well C	onstructor Certificat			
•	ture of wa			Depth Artesia					y for the construction		andonment v	vork
was a wa	iter analys	ns done'	: ∐Ye	s By whor ble for inten		:FMI		performed on this well d	uring the construction	dates reported at	xove. All wor	
	strata cont Mu		ernotsuita Odor [□ Other.		EL UTIL	performed during this tir construction gandards. I	ne is in compliance wi	th Oregon water	supply well wieder and b	eliefa
•	strata:	•	וטשטין ב	_ COIOICU			nan	constitution and an area		WWC Num	ber 221	18
-cpiii 01	uu				AUb	052	บบช	Signal Alan	West	<u>~</u> D	ate	15-03
				MIAT	ren ne	COUDO	~		2000 A		omer to-	
	ORIGIN	AL-W	VATER R	ESOURCE				COPY - CONSTRUC	TOR SECONI	COPY - CU	STOMER	
					SALE	W, OHEG	iON					

W AS

NOTICE TO WATER WELL CONTRACTOR

The original and first copy
of this report are to be
filed with the

STATE OF OREGON
WATER WELL REPORT

STATE OF OREGON

(Please type or print)
within 30 days from the date
of well completion.

(Do not write above this line)

(10) LOCATION OF WELL:

	<u> </u>			
(1) OWNER:	(10) LOCATION OF WELL:			
Name KENNETH COPPINGER	County ZA A FILLA Driller's well n	umber 6	945-	-76
Address R.R. COPPINSER KANCHES	CENTER NEW Section 23 T. 3 N.	R2	19 8	, W.M.
ECHO, UPEGON	Bearing and distance from section or subdivis	ion corn	er	
(2) TYPE OF WORK (check):				
New Well Deepening Reconditioning Abandon		*****		
If abandonment, describe material and procedure in Item 12.	(11) WATER LEVEL: Completed v	zell.		
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found	52		£t.
Rotary Driven Domestic D Industrial Municipal Cable Detted	Static level 48 ft. below land	surface.	Date /	2-3-7
Cable ☐ Jetted ☐ Dug ☐ Bored ☐ Irrigation ☐ Test Well ☐ Other ☐	Artesian pressure	re inch.	Date .	-
(5) CASING INSTALLED: Threaded Welded P	(12) WELL LOG: Diameter of well-	34.76	300	F
Diam. from 1/ 11. to 37 11. Gage 1.350			لد مده	/ sign
12 " Diam. from ft. to ft. Gage	Depth drilled 76/ ft. Depth of comp			17.
"Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each stratu			
	with at least one entry for each change of forms	tion. Rep	ort each	change in
PERFORATIONS: Perforated? Yes & No.	position of Static Water Level and indicate prin	7		
Type of perforator used	MATERIAL	From	To	SWL
Size of perforations in, by in.	SILT Soils -	0	10	<u> </u>
ft. to ft.	Chay Seil	10	10	
perforations from ft. to ft.	GREY BASALT	10	52	1100
perforations from ft. to ft.	RED SASALT	200	16	H2"
(7) SCREENS: Well screen installed? T Yes ENO	MED, KARD GREY BASALT	76	134	
	GREY BASALT	134	26/	. 2
Manufacturer's Name	DROWN DASALT WISAApstan	261	222	HZ
Type Model No.	MEDINAGE GREY BASALT	272	2000	
Diam. Slot size Set from ft. to ft.	SOFT GPEY BASALT	504	526	
Diam. Slot size Set from ft. to ft.	MEDI HARD GREY BASALT	526	\$08	
(8) WELL TESTS: Drawdown is amount water level is	DROKEN KED BASALT	30.50	6.26	HZ 8.
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	MED HARD BASALT	1.26	734	
Was a pump test made? Wes No If yes, by whom?	BRINEN BROWN BESALT	234	761	H3"
hald: /304 gal./min. with/4/5 ft. drawdown after 4 hrs.	•			
" " "				
и п и				
Bafler test gal./min. with ft. drawdown after hrs.		ļ		
Artesian flow NONE g.p.m.	ti an tell	L	4 40	.Hd
nperature of water // Depth artesian flow encountered ft.	Work started //- 22 19 % Complete	ed /	2-3	19
(9) CONSTRUCTION:	Date well drilling machine moved off of well	12	- <u>I</u>	19
Well seal-Material used NEAT CEMENT	Brilling Machine Operator's Certification:			
	This well was constructed under my	direct	super	vision.
Diameter of well bore to bottom of seal	Materials used and imormation reported best knowledge and belief.	above	are true	to my
Diameter of well bore to bottom of sealin. Diameter of well bore below sealin.	15 Carlindons	Data A	کوسا	10 7
	[Signed] (Drilling Machine Operator)	_0410 € *********************************	01	, i.v.r
Number of sacks of cement used in well seal	Drilling Machine Operator's License No.	ð.,	5 P	
Number of sacks of bentonite used in well seal sacks				
Brand name of hentonite	New York Control of the Control of t			
	Water Well Contractor's Certification:			
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification: This well was drilled under my jurisdi		d this r	eport is
Number of pounds of bentonite per 100 gallons	Water Well Contractor's Certification: This well was drilled under my jurisditrue to the best of my knowledge and bel		d this re	eport is
Was a drive shoe used? Yes No Plugs Size Size	Water Well Contractor's Certification: This well was drilled under my jurisdi		d this r	eport is
Number of pounds of bentonite per 100 gallons of water	Water Well Contractor's Certification: This well was drilled under my jurisditrue to the best of my knowledge and bel Name Terrop. firm or corporation	Delg	pa or urin	7 t)
Number of pounds of bentonite per 100 gallons of water	Water Well Contractor's Certification: This well was drilled under my jurisditrue to the best of my knowledge and bel	Delg	ed this reprint	/ t)
Number of pounds of bentonite per 100 gallons of water	Water Well Contractor's Certification: This well was drilled under my jurisditrue to the hest, of my knowledge and bell Name (Feffor, thm or corporation) Address [Signed]	Pet	pa or urin	/
Number of pounds of bentonite per 100 gallons of water	Water Well Contractor's Certification: This well was drilled under my jurisditrue to the best, of my knowledge and bell Name (Feffo), firm or corporation) Address [Signed] Water Well Contractor's Certification: Water Well Contractor's Certification:	Pet	pa or urin	/ t)
Number of pounds of bentonite per 100 gallons of water	Water Well Contractor's Certification: This well was drilled under my jurisditrue to the hest, of my knowledge and bell Name (Feffor, thm or corporation) Address [Signed]	Pet	pa or urin	/

APR - 6 1990

STATE OF OREGON

WATER WELL REPORT (as required by ORS 537.765)

WATER RESOURCES DEPT (MAT 5402),
SALEM, OREGONTER RESOURCES DEPT.
SALEM(SOREGOND) /

(1) OWNER: Well Number: War Kenneth Coppinger			(9) LOCATION OF WELL by legal description:								
Address Pt. 2 Roy 10				Nor S, Range							
City ECH					3 NE			13 ()1 47	* 44 1471		
(2) TYPE 0		. /					Lot BI		Subc	aoisivif	
Company of the Party of the Par		Recondition	Ab	oandon		Street Address of	Well (or nearest address)	81,2			
(3) DRILL N		Cable					WATER LEVE				4
Rotary Air Other	☐ Rotary Mud	LI Cable			tracing agency	, , ,	t. below land surface.	Lı;	Date	3-19	1-90
(4) PROPOS	ed use:		,			1	ib. per s	quare inch.			
		☐ Industrial ☐ Other	Irrigat	don		(11) WATER	BEARING ZON	ÆS:			
(5) BORE H	OLE CONST	TRUCTION	T:			Depth at which water w	es first found				
***	es No	No Depth			fî.,	From	То	Estir	nated Flow	v Rate	SWL
HOLE	i esi 1ype i	SEAL	runouze	. Araou	n t						
Diameter From	To Mater	rial From	To	sacks or po							
	N/I	7		-		(12) WELLLO	OG: Ground elev	ation			-
							Material		From	То	SWL
How was seal placed:	. Br. 11 - 3			7 5		100					
Other	Method LI A		<u> </u>	_ E		Teconait	inning From	<u>edur</u>	e :		
Backfill placed from	ft. to	ft. Mater	rial				le to 12"				
Gravel placed from _	ft_to	ft. Size o	f gravel		-	from	310 to 7	60ft			
(6) CASING	/LINER: From To	Congo Steel	Dinatio V	vall hobiau	hahaa						
Casing: N/7	I TOM TO						-				
Liner											
					<u> </u>						
Final location of shor											
(7) PERFOR											
☐ Perforation ☐ Screens											
	Slot	Tel	le/pipe								
From To	size Number	Diameter	sizo (ner						
					5						
- 00	1 2 2010				⊒						
	2 /2 13 0 1 0]		3-6-90 cm		7212	4-90	
ev diamer		3 3			5	200 mil Wa		npleted		7 / 0	
(8) WELL TI	ESTS: Minim	um testins C	íme is 1	hour			Well Constructor Constructor Construction Co			n, eltere	ition, or
☐ Pump	☐ Bailer	DAir		Flowing Artesian		abandonment of this standards. Materials	s well is in complian	ce with C)regon w	ell cons	truction
Yield gal/min	Drawdown	Drill stem	at	Time		knowledge and belief.		-			·
8007		760		1 hr.		Signed			WC Nun ate	nber	•
							M Canaturaian Cana				
Temperature of water	***************************************	Dopth Artes	DEA	CHIER		(bonded) Water We I accept respons	dibility for the constru	etion, alte	eration, c	or aband	lonment
Was a water analysis	personal desired	By whom	u 16Vi	ETTEL	7	work performed on the	us well during the cor ring this time is i	istruction n complia	dates rep ince wit	ported al h Oreg	oove. all
Did any strata contain	Did any strate contain water not suitable for intended use? Tagodittle			construction standard	ds. This report is true	to the be	at of my	knowle	dge endd		
	Li Satty Li Muany Li Ocor Li Cosored Li Otaler Line			10 1	2 CWall	120r	WC Num	nher La	90		
Depth of strata:	LOODY WA			QUACES		Signed & Source	_				8080 900
ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT THEORY SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9809C 3/88											

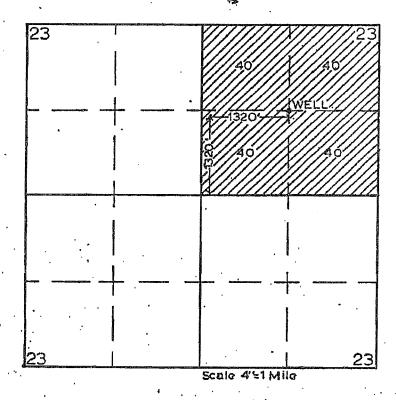
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T3N R29E

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WATER RESOURCES DEPT. SALEM, OREGOÑ



Kennth H Coppinger Ranch

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APR 2 7 1990

WATER RESOURCES DEPT. SALEM, OREGON

OCT 1 2 2010

received

AUG 0 5 2000 .

WATER RESOURCES DEPT SALEM, OREGON COPPINGER #3, PAGE 3 OF 3

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

STATE ENGINEER, SALLY, OREGON 87310
within 30 days from the offer of t

WARLED FLOT LOTA LITTLE

WATER WELL REPORTUMA

STATE OF OREGON

(Please type or print)

(Do not write above this line)

	1
State Well 1	10 3N/30E-30CO
	G-6600
State Permi	(-8367
	(1-830)

(1) OWNER:	(10) LOCATION OF WELL:	
Name Robert RESOURCES DEPT	County Umatella Driller's well n	umber
Address Rt2 SALEM, OREGON	14 8.E 14 Section 30 T. 37.	R. 30 E. W.M.
Echo, Origon 97826	Bearing and distance from section or subdivis	
(2) TYPE OF WORK (check):	Secretary and desired and secretary at the secretary at	1
New Well 5 Deepening Reconditioning Abandon	,	
If abandonment, describe material and procedure in Item 12.	(11) YEI A WIEDD Y WITTER . Commissed -	11
(3) TYPE OF WELL: (4) PROPOSED USE (check):	(11) WATER LEVEL: Completed was Depth at which water was first found 2/8	
Rotory The Delgram [7]	A see	4 = 1 . 4
Cable		surface. Date 10/21/75
Dug Bored Irrigation Test Well Other	Artesian pressure lbs. per squar	re inch. Date
CASING INSTALLED: Threaded Welded &	(12) WELL LOG: Diameter of well	12" & 400 helow resing 89 400 83.
32 " Diam from 0 ft. to 73 ft. Gage 1250	(=)	
"Dism. from	Depth drilled 835 ft. Depth of compl	
"Diam, from ft, to ft. Gage	Formation: Describe color, texture, grain size and show thickness and nature of each stratus	
	with at least one entry for each change of forms	tion. Report each change in
PERFORATIONS: Perforated?	position of Static Water Level and indicate prin	cipal water-bearing strata.
Type of perforator used	MATERIAL	From To SWL
Size of perforations in, by in.	Topane	0 5
perforations fromft, toft.	Marce + Claustone	5 30
perforations fromft. toft.	Rock broken Sprown	30 46
perforations from	Rock, dark brown	46 73
AN COMPENSO.	Rock, dask brown yellow clays	Con 73 8
(7) SCREENS: Well screen installed? Yes KNo	Basalt	81 112
Manufacturer's Name	Rock, dark brown	//2 /33
Type Model No.	Basser, black	133 171
Diam. Slot size Set from ft. to ft.	Kock, keel	171 197
Dism. Slot size Set from ft. to ft.	Rock, light brown	197 202
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	Dasall, hard	714 778 118
	Ross, men grack	218 373 W.B.
Was a pump test made? 🖸 Yes 🗟 No If yes, by whom?	Rock, med black	4d5 1167
Yield: gal./min. with ft. drawdown after hrs.	Banalt	11.9 422
" "	Baselt hard aren	53A 577
" "	Rack Coasa alst de	567 610 W.B.
Besier test 500 gal./min. with 3/7 ft. drawdown after / hrs.	Basser 1	610 689
Artesian flow g.p.m.	Rack, light brown	689 202 W.B.
Resperature of water Depth artesian flow encountered ft.	Work started 9-23 19 75 Complete	d /1 - 2/ 1975
CONCERNATIONS.	Date well drilling machine moved off of wall	10-21. 1975
(9) CONSTRUCTION:	Drilling Machine Operator's Certification:	conis
	This well was constructed under my	
Well sealed from land surface to 7.3 ft.	Materials used and information reported	above are true to my
Diameter of well bore to bottom of seal	best knowledge and belief.	
Diameter of well bore below sealin.	[Signed] (Drilling Machine Operator)	Date
Number of sacks of cement used in well seal	Drilling Machine Operator's License No	665
Number of sacks of bentonite used in well seal sacks		
Erand name of bentonite	Water Well Contractor's Certification:	
of water lbs./100 gals.	This well was drilled under my jurisdic	etlon and this report is
Was a drive shoe used? MYes □ No Plugs Size: location ft.	true to the best of my knowledge and beli-	ūr.
Did any strata contain unusable water? Ves No	Name (Paraon, firm or corporation)	(Type or print)
Type of water? depth of strats	Address GOO HERMISTON AVE	HERMISTON OF
	Tail Will	1
Method of sealing strata off Was well gravel packed? □ Yes SYNo Size of gAWG Ω 5 2009	[Signed] (Water Well Contra	otor)
	66	10.21 10.75
Gravel placed from ft. to ft.	Contractor's License No Date	
OCT 1 2 2010 SALEM, OFFEGON		SF*45605-119
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TICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the

STATE ENGINEER, SALEM, OREGON 97310 within 30 days from the date

Gravel placed from _____ ft. to ____

WATER WELL REPORT

STATE OF OREGON

(Pleasa type or print)

3/30-30 ca (cat) State Well No. .. State Permit No.

(Do not write above this line) of well completion. (10) LOCATION OF WELL: (1) OWNER: Robert Petric County Umatilla Driller's well number Name Address 14 Section 33 T. 311. R. 30 8. Bearing and distance from section or subdivision corner (2) TYPE OF WORK (check): New Well-E Deepening 🔲 Reconditioning [Abandon | ▶ If abandonment, describe material and procedure in Item 12. (11) WATER LEVEL: Completed well. (3) TYPE OF WELL: (4) PROPOSED USE (check): Depth at which water was first found Domestic 🔲 Industrial 🗎 Municipal 🖂 it, below land surface. Date Static level Jetted 🔲 Irrigation 📆 Test Well 📙 Other Borgd | Dug Ariesian pressure lbs. per square inch. Date CASING INSTALLED: __Threaded □ Welded □ (12) WELL LOG: Diameter of well below casing " Diam, from ft. to ft. Gage ... Depth drilled ft. Depth of completed well ft. to ____ ft. Gage ... Formation: Describe color, texture, grain size and structure of materials; ___ ft. to_____ ft. Gage ... 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. Perforations: Perforated? Yes No. Type of perforator used MATERIAL SWL 702 Basaer, Rack in, by Size of perforations perforations from___ perforations from ____ ___ perforations from (7) SCREENS: Well screen installed? | Yes | No Manufacturer's Name Model No. .. Туре ... tt to Diam. Slot size Set from Diam. _____ Slot size .__ Drawdown is amount water level is lowered below static level (8) WELL TESTS: Was a pump test made? ☐ Yes. ☐ No If yes, by whom? 0.5gal./min. with hrs. WATER RESOURCES DEPT H SALEM OREGON gal./min. with Bailer test ft. drawdown after hrg. Artesian flow g.p.m. gperäture of water Depth artesian flow encountered . 19 19 Completed Work started Date well drilling machine moved off of well (9) CONSTRUCTION: ---Drilling Machine Operator's Certification: Well scal-Material used . This well was constructed under my direct supervision. Well sealed from land surface to .___ Materials used and information reported above are true to my best knowledge and belief. Diameter of well bore to bottom of seal [Signed](Drilling Machine Operator) Diameter of well bore below seal _____ in. Date 19...... Number of sacks of cement used in well seal ... Drilling Machine Operator's License No. ... 6.65 Number of sacks of bentonite used in well seal Brand name of bentonite Water Well Contractor's Certification: Number of pounds of bentonite per 100 gallons This well was drilled under my jurisdiction and this report is _ lbs./100 gals. true to the best of my knowledge and belief. Was a drive shoe used?

Yes

No Plugs Size: location 21. Name TROY GRIFFIN
(Person, tirm or corporation) Did any strats contain unusable water? 🗆 Yes 🗀 No (Type or print) Address GOOHERMISTON AVE, HERMISTIN OFE. depth of strate Type of water? Method of sealing strata off (Water Well Centractor) Was well gravel packed? ☐ Yes ☐ No Size of gravel: ...

NOTICE TO WATER WELL CONTRACTOR The original and first conv

(2) TYPE OF WORK (check): Deepening [

Bored 🗌

PERFORATIONS:

CASING INSTALLED:

Diam. Slot size Set from Diam. Slot size Set from

(3) TYPE OF WELL:

Rotary Driven D

Type of perforator used

Size of perforations

(7) SCREENS:

Manufacturer's Name ...

(8) WELL TESTS:

perature of water (9) CONSTRUCTION: Well seal-Material used AM Well sealed from land surface to

Brand name of bentonite

Method of sealing strata off

Diameter of well bore to bottom of seal ... Diameter of well bore below seal Number of sacks of cement used in well seal . Number of sacks of bentonite used in well seal

Number of pounds of bentonite per 100 gallons

Did any strata contain unusable water?

Yes

No

Was well gravel packed? ☐ Yes ☐ No Size of gravel:

Baller test

of water ...

Type of water?

Gravel placed from ..

tesian flow

If abandonment, describe material and procedure in Item 12.

"Diam. from _____ ft. to ____ ft. Gage ...

in, by

Was a pump test made? Taxxes [] No II yes, by whom? Taxxae. gal./min. with 250 ft. drawdown after

gal./min. with

g.p.m.

Was a drive shoe used? | Yes | No Plugs _____ Size; location ____ ft.

depth of strata

Depth artesian flow encountered

Well screen installed? Yes No

... Model No.

Drawdown is amount water level is lowered below static level

ft. drawdown after

perforations from ft. to _ perforations from ft. to ___ perforations from ____ ft. to ...

(1) OWNER:

New Well 🗌

Name

of this report are to be

WATER WELL REPORT

(Please type or print)



filed with the F]] STATE OF OREGON STATE ENGINEER, SALEM, ORLGO within 30 days from the date

SALEM, OREGON

DEC - 2 1975 of well completion. (Do not write ab WATER RESOURCES DEPT.

Reconditioning 🔲 . Abandon 📙

(4) PROPOSED USE (check):

Domestic | Industrial | Municipal | Irrigation 🛣 Test Well 📋 Other

Threaded | Welded |

Perforated? Yes No.

ove this line) State Permit 1	¥o		
(10) LOCATION OF WELL:			
County Umatilla Driller's well n	umber	· · · · · · · · · · · · · · · · · · ·	
14 SE 14 Section 30 T. 3 71	R. 3	OE.	W.M.
Bearing and distance from section or subdivis	ion corn	er	··
			* .:
(11) WATER LEVEL: Completed w	æll.		
Depth at which water was first found			
Static level 250 ft. below land	suriace.	Date /	1-3-75
Artesian pressure Ibs. per square	re inch.	Date	
(12) WELL LOG: Dimmeter of well	below ca	sing	······
Depth drilled ft. Depth of comp	leted wel	1 8	<u>35 m.</u>
Formation: Describe color, texture, grain size and show thickness and nature of each stratu with at least one entry for each change of forma position of Static Water Level and indicate prin	m and a tion. Rep	quifer pe ort each	metrated, change in
MATERIAL	From	To	SWL
Reaming week			
from 8 " to 12"			 .
Them Goo' to (c/0'			
· · · · · · · · · · · · · · · · · · ·			
	1		
· ·			
DEARMER			
	11, 144		<u> </u>
AUG 0 5 2009			
<u> </u>	00	T 1 0	2010
WATER RESOURCES DEPT			
SALEM OREGON			
	لجينا	1	
Work started 16 30 1975 Complete		/-3_	1973
Date well drilling machine moved off of well		<u>1-3 </u>	19 7.5
Drilling Machine Operator's Certification: This well was constructed under my Materials used and information reported best knowledge and belief. [Signed] [Orilling Machine Operator]	direct above a	ire true	vision. to my
Orilling Machine Operator's License No	665	>***********	hd************************************
Water Well Contractor's Certification:			
This well was drilled under my jurisdi true to the best of my knowledge and beli	ction an ef.	d this r	port is
Name TRAY GRIFFIN	(Ty	pe or prin	t)
Address 900 HZRMISTON AVE	HARK	M157	OHOPE
Signed] Jack Signed	ator)	**	*****

(USE ADDITIONAL SHEETS IF NECESSARY)

Contractor's License No. ___.S.

... lbs./100 gals.

.... Date ...

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

AMENDED WATER WELL REPORT

WATER RESOURCES DEPARTMENT UMAT SALEM, OREGON 97810 within 30 days from the date of well completion.

STATE OF OREGON AP

State Well No

(Do not write above the find) ESOURCES DEPT, SALEM, ORECON

-8367

CQ

(1) OWNER:	(10) LOCATION OF WELL:
Name KOBERT PETRIK	County UMAIIGHA Driller's well number 01-18
Address Pr#2 Box 20	HUNE SW & Section 30 T. 3N R. 30F, W.M.
FCHO, ORFGON	Bearing and distance from section or subdivision corner
(2) TYPE OF WORK (check):	
New Well Deepening Reconditioning Abandon	,
If abandonment, describe meterial and procedure in Item 12.	(11) WATER LEVEL: Completed well.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	
Dobney Observed D	Depth at which water was first found ft. Static level 2.66 ft. below land surface. Date 1-1/-7.
Cable Jetted Domestic Industrial Municipal	
Dug 🛮 Bored 🖂 Irrigation 🗷 Test Well 🗍 Other 🔻	Artesian pressure "lbs. per square inch. Date
(F) CASING INSTALLED: Threaded Welded	(12) WELL LOG: Dismeter of well below casing
Diam, from	Depth drilled 1886 ft. Depth of completed well 1886 ft.
"ft. to	
" Diam. from ft. to ft. Gage	Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated,
A STATE OF A PART ON CO.	with at least one entry for each change of formation. Report each change in
(6) PERFORATIONS: Perforated? Yes No.	position of Static Water Level and indicate principal water-bearing strata.
Type of perforator used	MATERIAL From To SWL
Size of perforations in. by in.	LEEPENING FROM 892 Fr.
perforations fromft. toft.	
perforations from ft. to ft.	CUTTINGS FROM 811 832
perforations from	MED, GREY BASALT 832 870
(7) SCREENS: Well screen installed? Yes No	DRONEN ALL
Manufacturer's Name	# # " " 905 915
Type Model No.	BROKEN PED " 915 970 water
Diam. Slot size Set from ft. to ft.	MED HARD " " 370 1001
Diam ft. to ft.	GREY " 1001 1020
	HARD GREY 4 1020 1058
(8) WELL TESTS: Drawdown is amount water level is Jawered below static layer	BROKEN RED " 158 1080 walo
Was a pump test made? Wes [] No If yes, by whom?	HARO GREY " 1080 1086
Viold: 1580 gal./min. with 9 ft. drawdown after 3 hrs.	
~ "	
" " " "	
Bailer test gal./min. with ft. drawdown after hrs.	
Ariesian flow g.p.m.	
Depth artesian flow encounteredft.	Work started /-// 19 /8 Completed /-/5 19 /8
	Date well drilling machine moved off of well /-/5 1978
(9) CONSTRUCTION:	Normalization of the state of t
Well seal—Material used	Drilling Machine Operator's Certification:
Well sealed from land surface to	This well was constructed under my direct supervision. Materials used and information reported above are true to my
Diameter of well bore to bottom of seal	best knowledge and belief.
Diameter of well hore below sealin.	[Signed] Date Date (Drilling Machine Operator)
Number of sacks of cement used in well seal	Drilling Machine Operator's License No. 386
How was cement grout placed?	
1 1 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2	Water Well Contractor's Certification:
The state of the s	This well was drilled under my jurisdiction and this report is
Was a drive shoe used? Tyes No Plugs Size: location ft.	true to the hest of my knowledge and belief.
Did any strata contain unusable water? Yes No. Pidgs	Name (Rerson, tirm or corporation) (Type or print)
Type of water? depth of strata	Address FENDERTON ORE, 9788/
Method of sealing strata off	
AUG U ZUUU	[Signed](Water Well Contractor)
Was well gravel packed? The No Size of gravel:	Contractor's License No. 523 Date 2-2 , 19.78
Gene Cardiffo Maria H	EETS IF NECESSARY) SP*4568-119

NOTICE TO WATER WELL CONTRACTA The original and first copy of the people water well report UMAT are to be filed with the

WATER RESOURCES DEPARTMENOCT 25 1978 STATE OF OREGON SALEM, OREGON 97910
Within 30 days from the AFER RESOURCES DEPT of well completion.
SALEM, OREGON

State Well No. 3N/30E-20CC

(1) OTHER	(10) TOORWOOD ON THEFT
(1) OWNER:	(10) LOCATION OF WELL:
Name KOBERT D. PETRIK	County UMATIALA Driller's well number 019
Address RT # 2 BOX 20 ECHO OREGON	SW 4SW 4 Section 20 T. 3N. R. 30 E. W.M.
(2) TYPE OF WORK (check):	Bearing and distance from section or subdivision corner
New Well Deepening Reconditioning Abandon	
If abandonment, describe material and procedure in Item 12.	
	(11) WATER LEVEL: Completed well.
(3) TYPE OF WELL: (4) PROPOSED USE (check):	Depth at which water was first found 245
Rotary Driven Domestic Dindustrial Municipal Domestic Dindustrial Municipal D	Static level 24 it, below land surface. Date 10 21/7
Dug 🛘 Bored 🗍 Irrigation 🕽 Test Well 🗘 Other 🔻	Artesian pressure lbs. per square inch. Date
LASING INSTALLED: Threaded Welded &	15 7 20 500
6 " Diam. from 0 1t to 28 ft. Gage 2350	(12) WELL LOG: Dismeter of well below casing 10" 85104
"Diam, fromft. toft. Gage	Depth drilled 1107 ft. Depth of completed well 1107 ft.
"Diam, from	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
PERFORATIONS: Perforated? Yes & No.	position of Static Water Level and indicate principal water-bearing strata.
Type of perforator used	MATERIAL From To SWL
Size of perforations in. by in.	SILTY SOIL 0 45
perforations fromft, toft.	SOFT BROKEN BASAUT 45 68
perforations from	HARD GREY " 68 141
perforations fromft. toft.	BROWEN RED " 141 153
(7) SCREENS: Well screen installed? [7] Yes The	MED, GREY " 153 210
(1) SCREENS: Well screen installed? Yes E No Manufacturer's Name	BRONEN BROWN 11 210 245 Amous
Type Model No.	BROVEN BROWN 11 400 425 WARD
Diam Slot size Set from ft. to ft.	
Diam. Slot size Set from ft. to ft.	# ARD GREY " 425 535 BROKEN " " 535 575
	BRONEN BROWN " 575 590 Wales
(8) WELL TESTS: Drawdown is amount water level is lowered below static level	GREY " 590 675
Was a pump test made? ☐ Yes ☐ No If yes, by whom?	BROKEN BROWN 1 675 690
Yield: gal./min. with ft. drawdown after hrs.	GREX " 690 780
EST, 2000 GPA BIR LIFT "	BEONEN BEOWN " 780 789 water
	GREY " 189 885
The state of the s	BROKEN BROWN ". 885 1006 welse
Bailer test gal./min, with ft. drawdown after hrs.	MED. GREY " 1000 1045
Artesian flow g.p.m.	GREY "1 1045 1107
erature of water \$2 Depth artesian flow encountered ft.	Work started 9-22 19 78 Completed 10-2/ 1978
9) CONSTRUCTION:	Date well drilling machine moved off of well 10-21 18 18
Vell seal—Material used NEAT CEMENT	Drilling Machine Operator's Certification:
Well sealed from land surface to	This well was constructed under my direct supervision.
Diameter of well bore to bottom of seal	Materials used and Miormation raported above are true to my best knowledge and Dekel.
Diameter of well bore below seal	[Signed] Mulleu Date 10-21, 1978
Tumber of sacks of cement used in well sealsacks	
Now was cement grout placed?	Drilling Machine Operator's License No.
The second secon	Water Well Contractor's Certification:
The state of the s	This well was drilled under my jurisdiction and this report is
Vas a drive shoe used? □ Yes A No Plugs Size: draijon □ □ □	true to the hest of my knowledge and belief.
and any strate contain unurable maters C V C No.	Name Wayte Was 1
old any strata contain unusable water? Yes No	(Ferson, firm or corporation) (Type or print)
ype of water? depth of strate AMG () 5 2008	Address Zana
lethod of sealing strata off	[Signed] (Water Well Contractor)
VAS WELL BLAVET PROCESS IN THE SIZE OF BLAVET.	The same of the sa
travel placed from ft. to SALEM, OREGON	Contractor's License No. 533 Date 10-21, 1978