Completion Checklist for CWRE Claims of Beneficial Use

Application # T 10692

Date Received 10/12/2010
CWRE Name Paul Wattenbarger Claim Logged yes
File Marked _____
Oversized Map # 0542 folder T
Read the file and attach a copy of the permit or transfer final order. _____

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)
- ✓ CWRE 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 & 310)
- ✓ Township, 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-pass devices, and measuring devices required (OAR 690–014(4)
- _____ 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 subdivision; if for domestic or human consumption, location of dwelling or spigot) (OAR 690-310-0050, 690-014, 690-380-6010)

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
    - _____
    - _____
- ✓ CWRE stamp and signature (OAR 690-014-0100)
- ✓ Signature(s) of permittee of transfer holder (OAR 690-014-0100)

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 permits 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

1. File Information

APPLICATION # (G, R, S OR T)	PERMIT # (IF APPLICABLE)	PERMIT AMENDMENT # (IF APPLICABLE)
T-10692		

2. Property Owner (current owner information)

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

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		
CITY PENDLETON	STATE OREGON	ZIP 97801

Are there additional permit or transfer holders of record? YES (NO)

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		
CITY	STATE	ZIP

Are there additional Owners of Record? (YES) 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		
CITY Lake Oswego	STATE OREGON	ZIP 97035

ADDITIONAL OWNER OF RECORD Crow Family Properties Oregon Limited (Tax Lots 400 & 1300 Sec 5 & 8 T3N, R30E, W.M.)		
ADDRESS 8145 SW Edgewater		
CITY Wilsonville	STATE OREGON	ZIP 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 (CORRESPOND TO MAP)	WELL LOG ID # FOR ALL WORK PERFORMED ON THE WELL (IF APPLICABLE)	WELL TAG # (IF APPLICABLE)
Hale #3	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 Water 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.

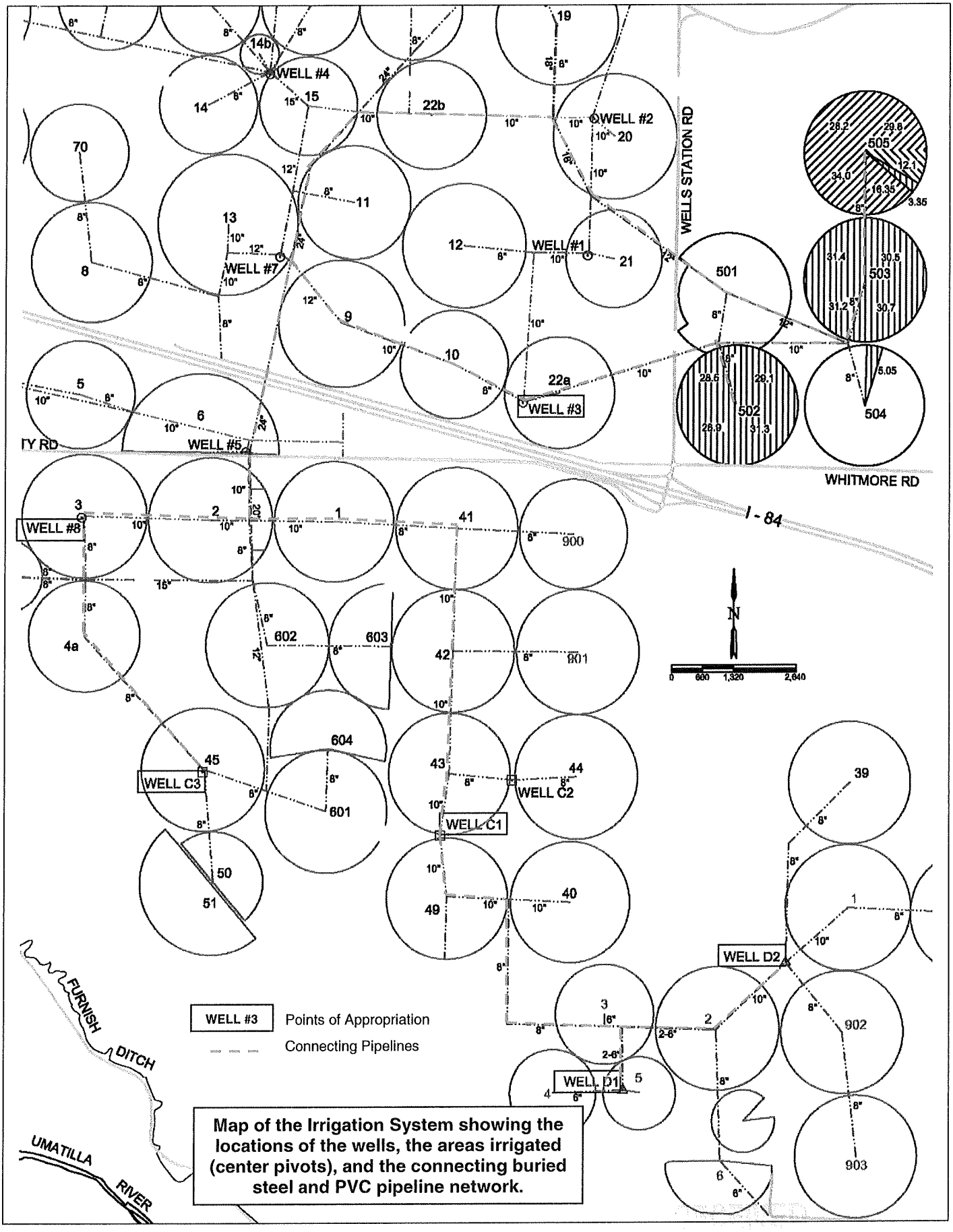
From Hale Well #8 water can flow through approximately 2,660 feet of 10 inch steel pipe to where it is connected to a new 20 inch PVC pipe. From this point water can flow through approximately 1,470 feet of 20 inch PVC pipe to a point new Hale Well #5. Water can flow from this point north through approximately 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.



Map of the Irrigation System showing the locations of the wells, the areas irrigated (center pivots), and the connecting buried steel and PVC pipeline network.

SECTION 2

SYSTEM DESCRIPTION (B through H)

Are there multiple PODs or POAs? There are a total of six POAs. (YES) 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? YES (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		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	NE NW	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 Acres Irrigated								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 and 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 NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Layne & Bowler			Turbine		

3. Motor Information

MANUFACTURER	HORSEPOWER
US	350

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STATE OFFICE

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	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) x TDH(feet) / 3960 Q(gpm) = 3960 x 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 x 280 / 637 = 1,740 gpm 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 READING	ENDING METER READING	DURATION OF TIME OBSERVED	TOTAL PUMP OUTPUT (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? (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
10"	7,080'	PVC	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

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:

OCT 12 2010

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? (YES) 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)? YES (NO)

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) YES (NO)

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 (NO)

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 (NO)

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? YES (NO)

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? YES (NO)

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		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	NE NW	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 Acres Irrigated								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 and 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 NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Layne & Bowler			Turbine		

3. Motor Information

MANUFACTURER	HORSEPOWER
Westinghouse	350

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WATER RESOURCES DEPT

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

WHP = Q(gpm) x TDH(feet) / 3960 Q(gpm) = 3960 x WHP / TDH(feet)

TDH(feet) = Lift(feet) + [Pressure(psi) x 2.31] + Losses(feet) = 560 ft + [73 psi x 2.31] + 11 ft = 740 ft

Q(gpm) = 3960 x 280 / 740 = 1,500 gpm Q(cfs) = Q(gpm) / 448.831 = 1,500 gpm / 448.831 = 3.34 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? (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"	12,510'	PVC	Buried
10"	4,720'	Steel	Buried
8"	1,670'	PVC	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

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)? (YES) 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
16"	0' to 51'	1492'	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)? YES (NO)

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) YES (NO)

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 (NO)

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 (NO)

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? YES (NO)

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? YES (NO)

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		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	NE NW	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 Acres Irrigated								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 and 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 NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Layne & Bowler			Turbine		

3. Motor Information

MANUFACTURER	HORSEPOWER
US	400

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)
400	10	475		5.57

5. Provide pump calculations:

BHP = 400 hp WHP = BHP x Eff_{pump} WHP = 400 hp x 0.80 = 320 hp

WHP = Q(gpm) x TDH(feet) / 3960 Q(gpm) = 3960 x WHP / TDH(feet)

TDH(feet) = Lift(feet) + [Pressure(psi) x 2.31] + Losses(feet) = 475 ft + [10 psi x 2.31] + 10 ft = 508 ft

Q(gpm) = 3960 x 320 / 508 = 2,500 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? (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"	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	Type of Pipe	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 - 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:

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WATER RESOURCES

D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? (YES) 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
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 (NO)

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) YES (NO)

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 (NO)

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 (NO)

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? YES (NO)

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 #C3

B. Place of Use

1. Is the right for municipal use? YES (NO)

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		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	NE NW	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 Acres Irrigated								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 and 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 NUMBER	TYPE (CENTRIFUGAL, TURBINE OR SUBMERSIBLE)	INTAKE SIZE	DISCHARGE SIZE
Unknown			Turbine		

3. Motor Information

MANUFACTURER	HORSEPOWER
US	100

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 x Eff_{pump} WHP = 100 hp x 0.80 = 80 hp

WHP = Q(gpm) x TDH(feet) / 3960 Q(gpm) = 3960 x WHP / TDH(feet)

TDH(feet) = Lift(feet) + [Pressure(psi) x 2.31] + Losses(feet) = 343 ft + [4 psi x 2.31] + 7 ft = 359 ft

Q(gpm) = 3960 x 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 Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in cfs)
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? (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"	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

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:

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D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? (YES) 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"	+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 (NO)

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) YES (NO)

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 (NO)

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 (NO)

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? YES (NO)

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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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? YES (NO)

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		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	NE NW	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 Acres Irrigated								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 and 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 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	10	350		4.64

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WATER RESOURCES

5. Provide pump calculations:

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

WHP = Q(gpm) x TDH(feet) / 3960 Q(gpm) = 3960 x WHP / TDH(feet)

TDH(feet) = Lift(feet) + [Pressure(psi) x 2.31] + Losses(feet) = 350 ft + [10 psi x 2.31] + 7 ft = 380 ft

Q(gpm) = 3960 x 200 / 380 = 2,080 gpm 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 Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (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 Handline Size	Length	Type of Pipe	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 - 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)? (YES) 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 (NO)

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) YES (NO)

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 (NO)

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 (NO)

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? YES (NO)

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):

Ditchen Land Co. - Well #D2

B. Place of Use

1. Is the right for municipal use? YES (NO)

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		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	NE NW	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 Acres Irrigated								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 and 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 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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WATER RESOURCES

5. Provide pump calculations:

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

WHP = Q(gpm) x TDH(feet) / 3960 Q(gpm) = 3960 x WHP / TDH(feet)

TDH(feet) = Lift(feet) + [Pressure(psi) x 2.31] + Losses(feet) = 355 ft + [60 psi x 2.31] + 6 ft = 500 ft

Q(gpm) = 3960 x 200 / 500 = 1,580 gpm 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)

Initial Meter Reading	Ending Meter Reading	Duration of Time Observed	Total Pump Output (in cfs)
McCrometer	Instantaneous Reading	1,000 gpm	2.23 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"	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 Handline Size	Length	Type of Pipe	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 - 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:

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D. Groundwater Source Information (Well and Sump)

1. Is the appropriation from ground water (well or sump)? (YES) 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
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 (NO)

E. Storage

1. Does the distribution system include in-system storage (i.e. storage tank, bulge in system / reservoir) YES (NO)

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 (NO)

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 (NO)

H. Reservoir

1. Does the claim involve a reservoir modified through a transfer? YES (NO)

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.*

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.

* 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)? YES (NO)

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:

a. Was the water user required to submit an initial static water level measurement? YES (NO)

5. Annual Static Water Level Measurements:

a. Was the water user required to submit annual static water level measurements? YES (NO)

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? YES (NO)

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? (YES) 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? (YES) 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? (YES) NO

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

b. Have the reports been submitted? (YES) NO

METHOD OF SUBMITTING REPORT (PAPER OR ELECTRONIC)	WATER USER REPORTING 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.

OCT 12 2010

9. Fish Screening

a. Are any points of diversion required to be screened to prevent fish from entering the point of diversion? YES (NO)

10. By-pass Devices

a. Are any points of diversion required to have a by-pass device to prevent fish from entering the point of diversion? YES (NO)

11. Other conditions required by permit, permit amendment final order, extension final order, or transfer 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)

If "YES" to any of the above, identify the condition and describe the water user's actions to comply 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 *"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 NAME OR #	MAXIMUM RATE AUTHORIZED	CALCULATED THEORETICAL RATE BASED ON SYSTEM	AMOUNT OF WATER MEASURED	USE	# OF ACRES ALLOWED	# OF ACRES DEVELOPED
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

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

Please be sure that the map you submit includes ALL the items listed below.
(Reminder: Incomplete maps and/or claims may be returned.)

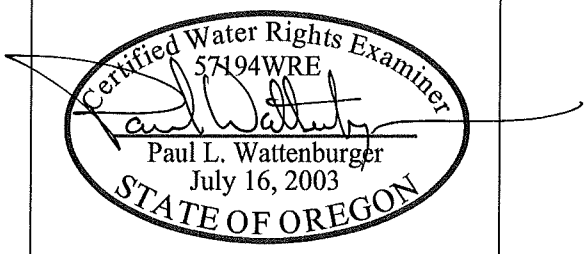
- [x] Map on polyester film.
- [ ] Appropriate scale (1" = 400 feet, 1" = 1320 feet, or the original full-size scale of the county assessor map) 1" = 2640'
- [x] Township, Range, Section, Donation Land Claims, and Government Lots
- [x] If irrigation, number of acres irrigated within each projected Donation Land Claims, Government Lots, Quarter-Quarters
- [NA] Locations of fish screens, fish by-pass devices, meters and measuring devices in relationship to point of diversion or appropriation.
- [x] Conveyance structures illustrated (pumps, reservoirs, pipelines, ditches, etc.)
- [x] Point(s) of diversion or appropriation (illustrated and coordinates)
- [x] Tax lot boundaries and numbers
- [NA] Source illustrated if surface water
- [x] Disclaimer ("This map is not intended to provide legal dimensions or locations of property ownership lines")
- [x] Application and permit number or transfer number
- [x] North arrow
- [x] Legend
- [x] 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.

Seal and Signature



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

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
	CRAIG REEDER	09-17-10

RECEIVED
OCT 12 2010
WATER RESOURCES DEPT
SALEM, OREGON

E TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
NGINEER, SALEM, OREGON, 97310 within 30 days from the date of well completion.

RECEIVED
JUN 26 1972

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

UMAT 1295

State Well No. 3N/29E-12d

State Permit No. .....

(1) OWNER:
Name Circle "C" Farms, Inc.
Address Route 2
Echo, Oregon 97826

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

(3) TYPE OF WELL:
Rotary ☐ Driven ☐
Cable ☒ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☒
20" Diam. from 0 ft. to 96 ft. Gage .250
16" Diam. from 0 ft. to 594 ft. Gage .250
" Diam. from ft. to ft. Gage

(6) PERFORATIONS:
Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Layne Pump
Yield: 1650 gal./min. with 40 ft. drawdown after ½ hrs.
" 2800 " 149 " 1 ½ "
" 3450 " 188 " 2 ½ "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow 400 g.p.m.
Temperature of water 80 Depth artesian flow encountered 617 ft.

(9) CONSTRUCTION:
Well seal—Material used 16" Casing ~ cement grout
Well sealed from land surface to 594 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 620 sacks
Number of sacks of bentonite used in well seal 0 sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel:
Gravel placed from ft. to ft.

(10) LOCATION OF WELL:
County Umatilla Driller's well number #3
NE ¼ SE ¼ Section 12 T. 3N R. 29E W.M.
Bearing and distance from section or subdivision corner
1450' N of the SE corner of Section 12 on section line.

(11) WATER LEVEL: Completed well.
Depth at which water was first found 605 ft.
Static level 0 ft. below land surface. Date 12/30/71
Artesian pressure 4 lbs. per square inch. Date 5/20/72

(12) WELL LOG:
Diameter of well below casing 12"
Depth drilled 1189 ft. Depth of completed well 1189 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
see attached sheet			

RECEIVED
OCT 12 2010
AUG 05 2008
WATER RESOURCES DEPT
SALEM, OREGON

Work started June 15 19 71 Completed May 27 19 72
Date well drilling machine moved off of well June 3 1972

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] (Drilling Machine Operator) Date June 20, 1972
Drilling Machine Operator's License No. 787

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Circle "C" Farms, Inc. (Person, firm or corporation) (Type or print)
Address Route 2 Echo, Oregon
[Signed] (Water Well Contractor)
Contractor's License No. Date June 20, 1972

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45666-119

JUN 26 1972

ENGINEER

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

Material	From	To	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	88	3'
Basalt - Gray - Hard	88	103	
Installed and sealed 20" casing to 96'			
Basalt - Broken - Gray (water 103-107)	103	107	60'
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	577	585	38'
Basalt - Gray - Hard	585	605	
Basalt - Black	605	617	
Basalt - Black - Sand	617	704	0
Basalt - Gray - Hard	704	805	
Basalt - Boulders	805	825	
Basalt - Gray - Hard	825	881	
Basalt - Red - Soft	881	902	
Basalt - Gray - Soft	902	935	
Basalt - Red - Soft	935	944	
Basalt - Gray - Soft	944	956	
Basalt - Red - Soft	956	971	
Basalt - Gray - Hard	971	1056	
Basalt - Boulders	1056	1105	
Black Sand - Broken Boulders	1105	1189	

WATER WELL REPORT
STATE OF OREGON

UMAT 1288

RECEIVED
JUN 28 1982
WATER RESOURCES DEPT
SALEM, OREGON

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

State Permit No. .....

(1) OWNER:
Name Prudential Ins. Co.
Address P O Box 3048
City Pasco, Wash 99302 State

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

(3) TYPE OF WELL:
Rotary Air ☒ Driven ☐
Rotary Mud ☐ Dug ☐
Cable ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐
Thermal: ☐ Withdrawal ☐ Reinjection ☐

(5) CASING INSTALLED:
na
Steel ☐ Plastic ☐
Threaded ☐ Welded ☐
..." Diam. from ..... ft. to ..... ft. Gauge .....
..." Diam. from ..... ft. to ..... ft. Gauge .....

LINER INSTALLED:
..." Diam. from ..... ft. to ..... ft. Gauge .....

(6) PERFORATIONS:
Perforated? ☐ Yes ☐ No
Type of perforator used na
Size of perforations in. by in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☒ No
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot Size ..... Set from ..... ft. to ..... ft.
Diam. ..... Slot Size ..... Set from ..... ft. to ..... ft.

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

(9) CONSTRUCTION:
Special standards: Yes ☐ No ☒
Well seal—Material used na
Well sealed from land surface to ..... ft.
Diameter of well bore to bottom of seal ..... in.
Diameter of well bore below seal ..... in.
Number of sacks of cement used in well seal ..... sacks
How was cement grout placed? .....
.....
.....
Was pump installed? ..... Type ..... HP ..... Depth ..... ft.
Was a drive shoe used? ☐ Yes ☒ No Plugs ..... Size: location ..... ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of Water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

(10) LOCATION OF WELL:
County Umatilla Driller's well number three
SE ¼ SE ¼ Section 12 T. 3N R. 29E W.M.
Tax Lot # Lot Blk Subdivision
Address at well location:

(11) WATER LEVEL: Completed well.
Depth at which water was first found na ft.
Static level 177 ft. below land surface. Date 5/27/82
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 7 7/8
Depth drilled 2 feet ft. Depth of completed well 1196 ft.

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

MATERIAL	From	To	SWL
Black Basalt	1194	1196	177
cleaned out talc or siltstone plug at 575 to approx 600 more or less			

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AUG 05 2008
WATER RESOURCES DEPT
SALEM, OREGON

OCT 02 2010

Work started 5/25/82 19 Completed 5/27/82 19
Date well drilling machine moved off of well 5/27/82 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Ronald Hall (Drilling Machine Operator) Date 6/3/82
Drilling Machine Operator's License No. 1454

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Larry Burd Well Drilling Inc. (Person, firm or corporation) (Type or print)
Address 5543 S W Douglas Pendleton, Ore
[Signed] Larry Burd (Water Well Contractor)
Contractor's License No. 544 Date 6/3/82, 19

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

SP*12658-690

NOTICE TO WATER WELL CONTRACTOR: The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT, SALEM, OREGON 97310 within 30 days from the date of well completion.

RECEIVED DEC 14 1978 WATER RESOURCES DEPT SALEM, OREGON

WELL REPORT
STATE OF OREGON
(Please type or print) (Do not write above this line)

UMAT 1300

State Well No. 3N/29E-14 6a

State Permit No. .....

(1) OWNER:
Name Cook Bros. Circle C Ranch
Address RR #1 Echo, Oregon

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

(3) TYPE OF WELL:
Rotary ☑ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

CASING INSTALLED: Threaded ☐ Welded ☑
16" Diam. from 0 ft. to 51 ft. Gage .250
..." Diam. from ..... ft. to ..... ft. Gage .....
..." Diam. from ..... ft. to ..... ft. Gage .....

PERFORATIONS: Perforated? ☐ Yes ☑ No
Type of perforator used .....
Size of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS: Well screen installed? ☐ Yes ☑ No
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☑ No If yes, by whom?
Yield: ..... gal./min. with ..... ft. drawdown after ..... hrs.
EST. 2000 GPM AIR LIFT " " " "
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow ..... g.p.m.
Temperature of water ..... Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Well seal—Material used NEAT CEMENT
Well sealed from land surface to 51 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 15 in.
Number of sacks of cement used in well seal 50 sacks
How was cement grout placed? .....
Was a drive shoe used? ☐ Yes ☑ No Plugs ..... Size
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? ..... depth of strata .....
Method of sealing strata off .....
Was well gravel packed? ☐ Yes ☑ No Size of gravel .....
Gravel placed from ..... ft. to ..... ft.

RECEIVED AUG 05 2008 WATER RESOURCES DEPT SALEM, OREGON

(10) LOCATION OF WELL:
County UMATILLA Driller's well number 024-78
SE ¼ NW ¼ Section 14 T. 3N R. 29 E. W.M.
Bearing and distance from section or subdivision corner .....

(11) WATER LEVEL: Completed well.
Depth at which water was first found 128 ft.
Static level 95 ft. below land surface. Date 11-30-78
Artesian pressure ..... lbs. per square inch. Date .....

(12) WELL LOG: Diameter of well 15" To 450 Ft. 8" Below
Depth drilled 1492 ft. Depth of completed well 1492 ft.

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

MATERIAL	From	To	SWL
SILT, SOIL	0	6	
CLAY, GRAVEL	6	43	
BROWN BASALT	43	80	
HARD GREY "	80	128	
SOFT " "	128	145	water
HARD " "	145	188	
MED. " "	188	238	
HARD " "	238	265	
SOFT BROWN "	265	290	water
HARD GREY "	290	385	
BROKEN BROWN "	385	402	water
HARD GREY "	402	695	
BROKEN GREY "	695	736	water
HARD " "	736	1012	
BROKEN RED "	1012	1018	
MED. GREY "	1018	1392	
SOFT RED "	1392	1408	water
MED GREY "	1408	1492	

Work started 11-13 1978 Completed 12-11 1978
Date well drilling machine moved off of well 12-11 1978

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Ed Wallace (Drilling Machine Operator) Date 12-11, 1978
Drilling Machine Operator's License No. 886

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name WALLACE WELL DRILLING (Person, firm or corporation) (Type or print)
Address PENDLETON, OR.
[Signed] Ed Wallace (Water Well Contractor)
Contractor's License No. 583 Date 12-11, 1978

(USE ADDITIONAL SHEETS IF NECESSARY) SP*45856-119

OCT 1 2 2018

AMENDED WELL LOG

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the State Engineer within 30 days from the date of well completion.

RECEIVED
MAR 19 1979
WATER RESOURCES DEPT.
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print) (Do not write above this line)

UMAT 1299

State Well No. 3N/29E-14Q

State Permit No.

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310

(1) OWNER:
Name CIRCLE RANCH INC.
Address ECHO, ORE.

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

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED: Threaded ☐ Welded ☐
15" Diam. from 0 ft. to 585 ft. Gage
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

(6) PERFORATIONS: Perforated? ☐ Yes ☐ No.
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS: Well screen installed? ☐ Yes ☐ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? LAYNE Pump Co
Yield: gal./min. with ft. drawdown after hrs.
1700 GPM " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used
Well sealed from land surface to ft.
Diameter of well bore to bottom of seal in.
Diameter of well bore below seal in.
Number of sacks of cement used in well seal sacks
How was cement grout placed?
Was a drive shoe used? ☐ Yes ☐ No Plugs ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☐ No Size of gravel
Gravel placed from ft. to ft.

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SALEM, OREGON

(10) LOCATION OF WELL:
County UMATILLA Driller's well number 06-79
SE ¼ 40 ¼ Section 14 T. 3N R. 29 E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found ft.
Static level ft. below land surface. Date
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 8"
Depth drilled 1492 ft. Depth of completed well 1492 ft.

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

MATERIAL	From	To	SWL
DEEPENED PUMP CHAMBER			
FROM 450 FT. (15")		TO 585 FT.	
WENT BACK TO BOTTOM OF			
HOLE + GROUND UP WATER			
RESOURCES PROBE,			

Work started 3-1 19 79 Completed 3-12 19 79
Date well drilling machine moved off of well 3-13 19 79

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] (Drilling Machine Operator) Date 3/14, 19 79
Drilling Machine Operator's License No. 886

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name WALLACE WELL DRLG CO. (Person, Firm or corporation) (Type or print)
Address PENDLETON OR.
[Signed] (Water Well Contractor)
Contractor's License No. 583 Date 3/14, 19 79

(USE ADDITIONAL SHEETS IF NECESSARY) SP*45656-119

OCT 12 2010

RECEIVED UMAT 54853
JUN 2 6 2003
WATER RESOURCES DEPT
SALEM, OREGON

Umat 54853

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form.

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

(1) LAND OWNER Well Number
Name Kenneth Coppinger
Address 73235 Coppinger Lane
City Echo State OR Zip 97826

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

(3) DRILL METHOD:
☒ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☒ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other

(5) BORE HOLE CONSTRUCTION:
Special Construction approval ☐ Yes ☒ No Depth of Completed Well 1095 ft.
Explosives used ☐ Yes ☒ No Type Amount

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds
22"	0	25	Cement	0	403	260 sacks
19"	25	403				
15"	403	695				
10"	695	1095				

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

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	16"	+2	403	.375	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

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

(7) PERFORATIONS/SCREENS:
☐ Perforations Method
☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
3,000+		1095	1 hr.

Temperature of water 72° Depth Artesian Flow Found
Was a water analysis done? ☐ Yes By whom
Did any strata contain water not suitable for intended use? ☐ Too little
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other
Depth of strata:

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(9) LOCATION OF WELL by legal description:
County Umatilla Latitude Longitude
Township 3N N or S Range 29E E or W. WM.
Section 24 NE 1/4 NE 1/4
Tax Lot 2600 Lot Block Subdivision
Street Address of Well (or nearest address) 73235 Coppinger Lane Echo, OR 97826

(10) STATIC WATER LEVEL:
345 ft. below land surface. Date 4-1-03
Artesian pressure lb. per square inch Date

(11) WATER BEARING ZONES:
Depth at which water was first found 612

From	To	Estimated Flow Rate	SWL
612	645	100+	345
813	860	2000+	345
975	1016	100+	345
1048	1072	100+	345

(12) WELL LOG:
Ground Elevation

Material	From	To	SWL
Silty soil	0	4	
Brown clay	4	15	
Clay with gravel	15	19	
Brown clay	19	103	
Brown basalt	103	116	
Gray basalt	116	156	
Brown basalt	156	170	
Gray basalt	170	235	
Brown basalt	235	249	
Gray basalt hard	249	308	
Red basalt	308	315	
Gray basalt	315	389	
Brown basalt	389	395	
Gray basalt	395	612	
Gray & black basalt with soapstone	612	645	WB
Gray basalt	645	813	
		Cont to Pg. 2	

Date started 1-17-03 Completed 4-1-03

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number
Signed Date

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1218
Signed Patrick Wallace Date 4-15-03

ORIGINAL - WATER RESOURCES DEPARTMENT FIRST COPY - CONSTRUCTOR SECOND COPY - CUSTOMER

UMAT 54853

STATE OF OREGON
WATER SUPPLY WELL REPORT
(as required by ORS 537.765)
Instructions for completing this report are on the last page of this form.

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

(1) LAND OWNER Well Number _____
Name Kenneth Coppinger
Address 75235 Coppinger Lane
City Echo State OR Zip 97826

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

(3) DRILL METHOD:
☐ Rotary Air ☐ Rotary Mud ☐ Cable ☐ Auger
☐ Other _____

(4) PROPOSED USE:
☐ Domestic ☐ Community ☐ Industrial ☐ Irrigation
☐ Thermal ☐ Injection ☐ Livestock ☐ Other _____

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

HOLE Diameter	From	To	SEAL Material	From	To	Sacks or pounds

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

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

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

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

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐

(8) WELL TESTS: Minimum testing time is 1 hour
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

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

Temperature of water _____ Depth Artesian Flow Found _____
Was a water analysis done? ☐ Yes By whom _____
Did any strata contain water not suitable for intended use? ☐ No
☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other _____
Depth of strata: _____

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SALEM, OREGON

(9) LOCATION OF WELL by legal description:
County Umatilla Latitude _____ Longitude _____
Township 3N N or S Range 29E E or W, WM.
Section 24 NE 1/4 NE 1/4
Tax Lot 2600 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) 75235 Coppinger Lane Echo, OR 97826

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

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

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
Pg. 2 Cont. from Pg. 1:			
Red & gray basalt	813	860	WB
with Soapstone			
Gray basalt	860	975	
Black basalt with	975	1016	WB
soapstone			
Gray basalt	1016	1048	
Red & gray basalt	1048	1072	WB
with Soapstone			
Gray basalt	1072	1095	

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WATER RESOURCES DEPT
SALEM, OREGON

Date started 1-17-03 Completed 4-1-03

(unbonded) Water Well Constructor Certification:
I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon water supply well construction standards. Materials used and information reported above are true to the best of my knowledge and belief.
WWC Number _____
Signed _____ Date _____

(bonded) Water Well Constructor Certification:
I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. All work performed during this time is in compliance with Oregon water supply well construction standards. This report is true to the best of my knowledge and belief.
WWC Number 1218
Signed Richard Wallace Date 4-15-03

ORIGINAL – WATER RESOURCES DEPARTMENT FIRST COPY – CONSTRUCTOR SECOND COPY – CUSTOMER

OCT 12 2010

NOTICE 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 of well completion.

UMAT #326

RECEIVED #3
JAN 11 1977
WATER RESOURCES DEPT.
SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

State Well No. 3N/29E-23

State Permit No. .....

(1) OWNER:
Name KENNETH COPPINGER
Address R.R. COPPINGER RANCHES
ECHO, OREGON

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

(3) TYPE OF WELL:
Rotary ☑ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☑
6" Diam. from +1 ft. to -37 ft. Gage .250
12" Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....

(6) PERFORATIONS:
Perforated? ☐ Yes ☑ No
Type of perforator used .....
Size of perforations ..... in. by ..... in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☑ No
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☑ Yes ☐ No If yes, by whom? Valley Pump Co.
Yield: 1304 gal./min. with 145 ft. drawdown after 4 hrs.
" " " "
" " " "
Bailer test ..... gal./min. with ..... ft. drawdown after ..... hrs.
Artesian flow NONE g.p.m.
Temperature of water 71° Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Well seal—Material used NEAT CEMENT
Well sealed from land surface to 37 ft.
Diameter of well bore to bottom of seal 16 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 15 sacks
Number of sacks of bentonite used in well seal ..... sacks
Brand name of bentonite .....
Number of pounds of bentonite per 100 gallons of water ..... lbs./100 gals.
Was a drive shoe used? ☐ Yes ☑ No Plugs ..... Size: location ..... ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? ..... depth of strata .....
Method of sealing strata off .....
Was well gravel packed? ☐ Yes ☑ No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

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WATER RESOURCES DEPT.
SALEM, OREGON

(10) LOCATION OF WELL:
County UMATILLA Driller's well number 045-76
CENTER NE¼ Section 23 T. 3 N. R. 29 E. W.M.
Bearing and distance from section or subdivision corner .....

(11) WATER LEVEL: Completed well.
Depth at which water was first found 52 ft.
Static level 48 ft. below land surface. Date 12-3-76
Artesian pressure NONE lbs. per square inch. Date .....

(12) WELL LOG:
Diameter of well below casing 12" TO 300 FT
Depth drilled 761 ft. Depth of completed well 761 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
SILT, Soil	0	6	
CLAY, Soil	6	18	
GREY BASALT	18	52	
RED BASALT	52	76	H2O
MED. HARD GREY BASALT	76	134	
GREY BASALT	134	261	
BROKEN BASALT W/ BOULDERS	261	272	H2O
MED. HARD GREY BASALT	272	504	
SOFT GREY BASALT	504	526	
MED. HARD GREY BASALT	526	608	
BROKEN RED BASALT	608	626	H2O
MED. HARD BASALT	626	734	
BROKEN BROWN BASALT	734	761	H2O

Work started 11-22 19 76 Completed 12-3 19 76
Date well drilling machine moved off of well 12-3 19 76

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Ed Wallace (Drilling Machine Operator) Date 1-3, 19 77
Drilling Machine Operator's License No. 886

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Wallace Well Drlg. Co. (Person, firm or corporation) (Type or print)
Address Pendleton, Ore. 97801
[Signed] Ed Wallace (Water Well Contractor)
Contractor's License No. 383 Date 1-3, 19 77

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45888-119

OCT 1 2 2010

APR - 6 1990 APR 27 1990 (OMAT 5402) 3N/29E/23aa

STATE OF OREGON

WATER WELL REPORT

(as required by ORS 537.765)

WATER RESOURCES DEPT. SALEM, OREGON

WATER RESOURCES DEPT. SALEM, OREGON

(START CARD) # 17163

(1) OWNER:

Well Number:

Name Kenneth Coppinger

Address Rt. 2, Box 10

City Echo State OR Zip 97862

(2) TYPE OF WORK:

☐ New Well ☐ Deepen ☑ Recondition ☐ Abandon

(3) DRILL METHOD

☑ Rotary Air ☐ Rotary Mud ☐ Cable

☐ Other

(4) PROPOSED USE:

☐ Domestic ☐ Community ☐ Industrial ☑ Irrigation

☐ Thermal ☐ Injection ☐ Other

(5) BORE HOLE CONSTRUCTION:

Special Construction approval Yes ☐ No ☑ Depth of Completed Well ____ ft.

Explosives used Yes ☐ No ☑ Type ____ Amount ____

HOLE Diameter	From	To	SEAL Material	From	To	Amount sacks or pounds
			N/A			

How was seal placed: Method ☐ A ☐ B ☐ C ☐ D ☐ E

☐ Other

Backfill placed from ____ ft. to ____ ft. Material ____

Gravel placed from ____ ft. to ____ ft. Size of gravel ____

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	N/A				☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐
Liner:					☐	☐	☐	☐
					☐	☐	☐	☐

Final location of shoe(s)

(7) PERFORATIONS/SCREENS:

☐ Perforations Method

☐ Screens Type Material

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐
						☐	☐

OCT 12 2010

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

☐ Pump ☐ Bailer ☑ Air ☐ Flowing Artesian

Yield gal/min	Drawdown	Drill stem at	Time
800+		760	1 hr.

Temperature of water ____ Depth Artesian Flow Found ____

Was a water analysis done? ☐ Yes By whom ____

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

☐ Salty ☐ Muddy ☐ Odor ☐ Colored ☐ Other

Depth of strata:

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(9) LOCATION OF WELL by legal description:

County Umatilla Latitude ____ Longitude ____

Township 3N N or S, Range 29E E or W, WM.

Section 23 NE ¼ NE ¼

Tax Lot ____ Lot ____ Block ____ Subdivision ____

Street Address of Well (or nearest address) Echo, OR 97862

(10) STATIC WATER LEVEL:

____ ft. below land surface. Date 3-14-90

Artesian pressure ____ lb. per square inch. Date ____

(11) WATER BEARING ZONES:

Depth at which water was first found ____

From	To	Estimated Flow Rate	SWL

(12) WELL LOG:

Ground elevation ____

Material	From	To	SWL
Reconditioning Procedure: Reamed existing 8" hole to 12" from 310 to 760 ft.			

Date started 3-6-90 Completed 3-14-90

(unbonded) Water Well Constructor Certification:

I certify that the work I performed on the construction, alteration, or abandonment of this well is in compliance with Oregon well construction standards. Materials used and information reported above are true to my best knowledge and belief.

WWC Number ____

Signed ____ Date ____

(bonded) Water Well Constructor Certification:

I accept responsibility for the construction, alteration, or abandonment work performed on this well during the construction dates reported above. all work performed during this time is in compliance with Oregon well construction standards. This report is true to the best of my knowledge and belief. WWC Number 1218

Signed Patrick C Wallace Date 3-27-90

ORIGINAL & FIRST COPY - WATER RESOURCES DEPARTMENT SECOND COPY - CONSTRUCTOR THIRD COPY - CUSTOMER 9606C 8/88

UMAT 002

T. 3N R. 29E

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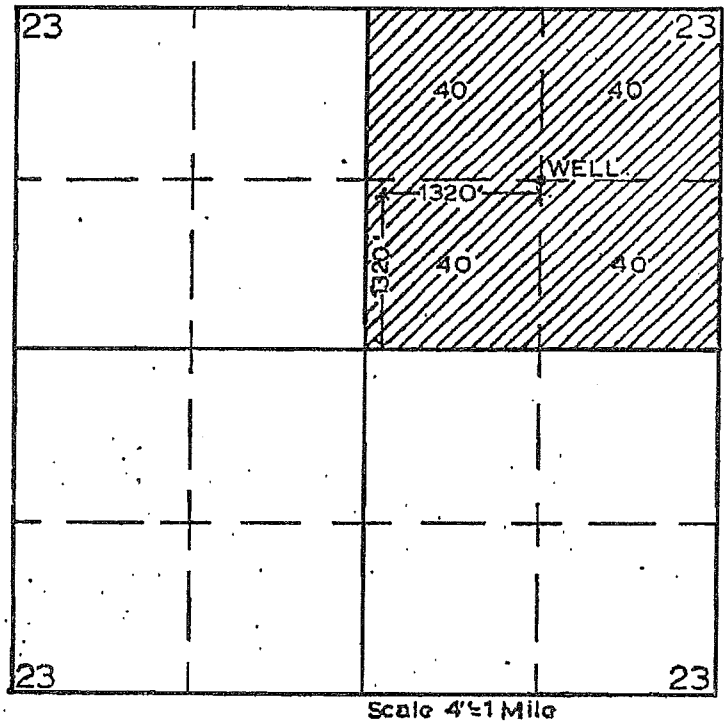
WATER RESOURCES DEPT.
SALEM, OREGON



Scale 4"=1 Mile

Kennth H. Coppinger Ranch

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APR 27 1990
WATER RESOURCES DEPT.
SALEM, OREGON

OCT 12 2010

RECEIVED
AUG 05 2008
WATER RESOURCES DEPT
SALEM, OREGON

NOTICE 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 of well completion.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

UMAT 1369

State Well No. 3N/30E-30ca (G-8608)
State Permit No. G-8041 G-8367

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OCT 27 1975
WATER RESOURCES DEPT.
SALEM, OREGON

Page 1

(1) OWNER:
Name Robert Peterson
Address Rt 2 Echo, Oregon 97826

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

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED: Threaded ☐ Welded ☒
12" Diam. from 0 ft. to 73 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS: Perforated? ☐ Yes ☒ No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(7) SCREENS: Well screen installed? ☐ Yes ☒ No
Manufacturer's Name
Type Model No.
Diam. Slot size Set from ft. to ft.
Diam. Slot size Set from ft. to ft.

(8) WELL TESTS: Drawdown is amount water level is lowered below static level
Was a pump test made? ☐ Yes ☒ No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
" " "
" " "
Bailer test 500 gal./min. with 317 ft. drawdown after 1 hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used Cement
Well sealed from land surface to 73 ft.
Diameter of well bore to bottom of seal 15 in.
Diameter of well bore below seal 12 in.
Number of sacks of cement used in well seal 73 sacks
Number of sacks of bentonite used in well seal sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water lbs./100 gals.
Was a drive shoe used? ☒ Yes ☐ No Plugs Size: location ft.
Did any strata contain unusable water? ☐ Yes ☒ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☒ No Size of gravel
Gravel placed from ft. to ft.

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SALEM, OREGON

(10) LOCATION OF WELL:
County Umatilla Driller's well number
¼ S.E. ¼ Section 30 T. 3N. R. 30 E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 218 ft.
Static level 250 ft. below land surface. Date 10/21/75
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 12" ø 400' 8" ø 400' to 835
Depth drilled 835 ft. Depth of completed well 835 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Topsoil	0	5	
Gravel + Clay+sand	5	30	
Rock, broken brown	30	46	
Rock, dark brown	46	73	
Rock, dark brown+yellow clay+sand	73	81	
Basalt	81	112	
Rock, dark brown	112	133	
Basalt, black	133	171	
Rock, red	171	197	
Rock, light brown	197	202	
Basalt, hard	202	218	
Rock, med. black	218	373	W.B.
Basalt, black	373	445	
Rock, med. black	445	469	
Basalt	469	530	
Basalt, hard gray	530	567	
Rock, coarse black	567	610	W.B.
Basalt	610	689	
Rock, light brown	689	702	W.B.

Work started 9-23 19 75 Completed 10-21 19 75
Date well drilling machine moved off of well 10-21 19 75

Drilling Machine Operator's Certification: Cont
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] James T. Leitch (Drilling Machine Operator) Date 10/21, 19 75
Drilling Machine Operator's License No. 665

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name TROY GRIFFIN (Person, firm or corporation) (Type or print)
Address 900 HERMISTON AVE, HERMISTON ORE
[Signed] Troy Griffin (Water Well Contractor)
Contractor's License No. 65 Date 10-21, 19 75

(USE ADDITIONAL SHEETS IF NECESSARY) SP*45606-119

OCT 12 2010
WATER RESOURCES DEPT.
SALEM, OREGON

NOTICE 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 of well completion.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)
Page 2

State Well No. 3/30-30 ca (cont)
State Permit No. G-6600 G-8041

(1) OWNER:
Name Robert Petrick
Address Rt 2
Echo, Oregon 97826

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

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

CASING INSTALLED:
Threaded ☐ Welded ☐
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

PERFORATIONS:
Perforated? ☐ Yes ☐ No.
Type of perforator used
Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☐ No
Manufacturer's Name
Type _____ Model No.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

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

(9) CONSTRUCTION:
Well seal—Material used
Well sealed from land surface to _____ ft.
Diameter of well bore to bottom of seal _____ in.
Diameter of well bore below seal _____ in.
Number of sacks of cement used in well seal _____ sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite
Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.
Was a drive shoe used? ☐ Yes ☐ No Plugs _____ Size: location _____ ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? _____ depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:
County Umatilla Driller's well number
¼ ¼ Section 30 T. 3N. R. 30E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found _____ ft.
Static level _____ ft. below land surface. Date
Artesian pressure _____ lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing _____
Depth drilled _____ ft. Depth of completed well _____ ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Basalt, hard	702	795	
Rock, brown	795	835	W.B.

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Work started _____ 19 Completed _____ 19
Date well drilling machine moved off of well _____ 19

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] _____ Date _____, 19_____
(Drilling Machine Operator)
Drilling Machine Operator's License No. 665

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name TROY GRIFFIN
(Person, firm or corporation) (Type or print)
Address 900 HERMISTON AVE, HERMISTON ORE.
[Signed] _____
(Water Well Contractor)
Contractor's License No. 665 Date _____, 19_____

(USE ADDITIONAL SHEETS IF NECESSARY)
SP*45656-119

NOTICE 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 of well completion.

WATER WELL REPORT
STATE OF OREGON
(Please type or print)

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DEC - 2 1975
WATER RESOURCES DEPT.
SALEM, OREGON

UMAT 1370

State Well No. 3N/30E-30d

State Permit No. _____

(Do not write above this line)

(1) OWNER:
Name Robert Petrick
Address Rt 2
Echo, Oregon 97826

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

(3) TYPE OF WELL:
Rotary ☒ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☒ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☐
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____
_____" Diam. from _____ ft. to _____ ft. Gage _____

(6) PERFORATIONS:
Perforated? ☐ Yes ☐ No.
Type of perforator used
Size of perforations _____ in. by _____ in.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.
_____ perforations from _____ ft. to _____ ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☐ No
Manufacturer's Name _____
Type _____ Model No. _____
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.
Diam. _____ Slot size _____ Set from _____ ft. to _____ ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☒ Yes ☐ No If yes, by whom? Farmers
Yield: 540 gal./min. with 230 ft. drawdown after 7½ hrs.
" " " "
" " " "
Bailer test _____ gal./min. with _____ ft. drawdown after _____ hrs.
Artesian flow _____ g.p.m.
Temperature of water _____ Depth artesian flow encountered _____ ft.

(9) CONSTRUCTION:
Well seal—Material used Not disturbed
Well sealed from land surface to _____ ft.
Diameter of well bore to bottom of seal _____ in.
Diameter of well bore below seal _____ in.
Number of sacks of cement used in well seal _____ sacks
Number of sacks of bentonite used in well seal _____ sacks
Brand name of bentonite _____
Number of pounds of bentonite per 100 gallons of water _____ lbs./100 gals.
Was a drive shoe used? ☐ Yes ☐ No Plugs _____ Size; location _____ ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? _____ depth of strata _____
Method of sealing strata off _____
Was well gravel packed? ☐ Yes ☐ No Size of gravel: _____
Gravel placed from _____ ft. to _____ ft.

(10) LOCATION OF WELL:
County Umatilla Driller's well number
¼ SE ¼ Section 30 T. 3N R. 30E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found _____ ft.
Static level 250 ft. below land surface. Date 11-3-75
Artesian pressure _____ lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing _____
Depth drilled _____ ft. Depth of completed well 835 ft.

Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. *Report each change in position of Static Water Level and indicate principal water-bearing strata.*

MATERIAL	From	To	SWL
Reaming well from 8" to 12"			
From 600' to 610'			

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WATER RESOURCES DEPT
SALEM, OREGON

OCT 12 2010

Work started 10-30 1975 Completed 11-3 1975
Date well drilling machine moved off of well 11-3 1975

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] James T Pettit (Drilling Machine Operator) Date 11-3, 1975
Drilling Machine Operator's License No. 665

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name TROY GRIFFIN (Person, firm or corporation) (Type or print)
Address 900 HERMISTON AVE, HERMISTON, OR
[Signed] Troy Griffin (Water Well Contractor)
Contractor's License No. 65 Date 11-3, 1975

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45856-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the
WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date of well completion.

UMAT 6892

AMENDED

WATER WELL REPORT

STATE OF OREGON
(Please type or print)
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MAR 1 1978
WATER RESOURCES DEPT.
SALEM, OREGON

State Well No. 3N/30E-30Dd
State Permit No. G-8600 G-8041 G-8367

(1) OWNER:
Name ROBERT PETRIK
Address Rt #2 Box 20
ECHO, OREGON

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

(3) TYPE OF WELL:
Rotary ☑ Driven ☐
Cable ☐ Jetted ☐
Dug ☐ Bored ☐

(4) PROPOSED USE (check):
Domestic ☐ Industrial ☐ Municipal ☐
Irrigation ☑ Test Well ☐ Other ☐

(5) CASING INSTALLED:
Threaded ☐ Welded ☐
..... " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....
..... " Diam. from ..... ft. to ..... ft. Gage .....

(6) PERFORATIONS:
Perforated? ☐ Yes ☐ No.
Type of perforator used
Size of perforations in. by in.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.
..... perforations from ..... ft. to ..... ft.

(7) SCREENS:
Well screen installed? ☐ Yes ☐ No
Manufacturer's Name .....
Type ..... Model No. .....
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.
Diam. ..... Slot size ..... Set from ..... ft. to ..... ft.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? ☑ Yes ☐ No If yes, by whom? FARMORE PUMP
Yield: 1580 gal./min. with 9 ft. drawdown after 3 hrs.
" " " "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water Depth artesian flow encountered ..... ft.

(9) CONSTRUCTION:
Well seal—Material used .....
Well sealed from land surface to ..... ft.
Diameter of well bore to bottom of seal ..... in.
Diameter of well bore below seal ..... in.
Number of sacks of cement used in well seal ..... sacks
How was cement grout placed? .....
.....
.....
.....
Was a drive shoe used? ☐ Yes ☐ No Plugs ..... Size: location ..... ft.
Did any strata contain unusable water? ☐ Yes ☐ No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? ☐ Yes ☐ No Size of gravel: .....
Gravel placed from ..... ft. to ..... ft.

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WATER RESOURCES DEPT
SALEM, OREGON

(10) LOCATION OF WELL:
County UMATILLA Driller's well number 01-78
NW¼ SW¼ Section 30 T. 3N R. 30E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found ..... ft.
Static level 200 ft. below land surface. Date 1-11-78
Artesian pressure ..... lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 8"
Depth drilled 1086 ft. Depth of completed well 1086 ft.

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

MATERIAL	From	To	SWL
DEEPENING FROM	832	FT.	
CUTTINGS FROM	811	832	
MED. GREY BASALT	832	870	
BROKEN RED "	870	893	
BROKEN GREY "	893	905	
HARD " "	905	915	
BROKEN RED "	915	970	water
MED HARD " "	970	1001	
GREY "	1001	1020	
HARD GREY "	1020	1058	
BROKEN RED "	1058	1080	water
HARD GREY "	1080	1086	

Work started 1-11 19 78 Completed 1-15 19 78
Date well drilling machine moved off of well 1-15 19 78

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] R.M. Wallace (Drilling Machine Operator) Date 2-2, 19 78
Drilling Machine Operator's License No. 886

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name Wallace Well Drlg Co. (Person, firm or corporation) (Type or print)
Address Pendleton, Ore 97801
[Signed] R.M. Wallace (Water Well Contractor)
Contractor's License No. 583 Date 2-2, 19 78

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45658-119

NOTICE TO WATER WELL CONTRACTOR
The original and first copy of this report are to be filed with the WATER RESOURCES DEPARTMENT SALEM, OREGON 97310 within 30 days from the date of well completion.

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SALEM, OREGON

WATER WELL REPORT
STATE OF OREGON
(Please type or print)
(Do not write above this line)

UMAT 1361

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

State Permit No. G-8367

(1) OWNER:
Name ROBERT D. PETRIK
Address RT #2 BOX 20 ECHO OREGON

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

(3) TYPE OF WELL:
Rotary [X] Driven [ ]
Cable [ ] Jetted [ ]
Dug [ ] Bored [ ]

(4) PROPOSED USE (check):
Domestic [ ] Industrial [ ] Municipal [ ]
Irrigation [X] Test Well [ ] Other [ ]

CASING INSTALLED:
Threaded [ ] Welded [X]
16" Diam. from 0 ft. to 78 ft. Gage .250
" Diam. from ft. to ft. Gage
" Diam. from ft. to ft. Gage

PERFORATIONS:
Perforated? [ ] Yes [X] No
Type of perforator used
Size of perforations in. by in.
perforations from ft. to ft.
perforations from ft. to ft.
perforations from ft. to ft.

(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.

(8) WELL TESTS:
Drawdown is amount water level is lowered below static level
Was a pump test made? [ ] Yes [ ] No If yes, by whom?
Yield: gal./min. with ft. drawdown after hrs.
EST. 2000 GPM AIR LIFT "
" " " "
Bailer test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water 92° Depth artesian flow encountered ft.

(9) CONSTRUCTION:
Well seal—Material used NEAT CEMENT
Well sealed from land surface to 78 ft.
Diameter of well bore to bottom of seal 20 in.
Diameter of well bore below seal 15½ in.
Number of sacks of cement used in well seal 75 sacks
How was cement grout placed?

Was a drive shoe used? [ ] Yes [X] No Plugs Size:
Did any strata contain unusable water? [ ] Yes [ ] No
Type of water? depth of strata
Method of sealing strata off
Was well gravel packed? [ ] Yes [X] No Size of gravel:
Gravel placed from ft. to ft.

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WATER RESOURCES DEPT
SALEM, OREGON

(10) LOCATION OF WELL:
County UMATILLA Driller's well number 019
SW ¼ SW ¼ Section 20 T. 3N R. 30 E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.
Depth at which water was first found 245 ft.
Static level 241 ft. below land surface. Date 10/21/78
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:
Diameter of well below casing 15" to 500 10" BELOW
Depth drilled 1107 ft. Depth of completed well 1107 ft.

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

MATERIAL	From	To	SWL
SILTY SOIL	0	45	
SOFT BROKEN BASALT	45	68	
HARD GREY "	68	141	
BROKEN RED "	141	153	
MED. GREY "	153	210	
BROKEN BROWN "	210	245	WATER
HARD GREY "	245	400	
BROKEN BROWN "	400	425	WATER
HARD GREY "	425	535	
BROKEN " "	535	575	
BROKEN BROWN "	575	590	WATER
GREY "	590	675	
BROKEN BROWN "	675	690	
GREY "	690	780	
BROKEN BROWN "	780	789	WATER
GREY "	789	885	
BROKEN BROWN "	885	1006	WATER
MED. GREY "	1006	1045	
GREY "	1045	1107	

Work started 9-22 19 78 Completed 10-21 19 78
Date well drilling machine moved off of well 10-21 19 78

Drilling Machine Operator's Certification:
This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.
[Signed] Ed Wallace Date 10-21, 19 78
(Drilling Machine Operator)
Drilling Machine Operator's License No. 886

Water Well Contractor's Certification:
This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.
Name WALLACE WELL DRLG. CO.
(Person, firm or corporation) (Type or print)
Address PENDLETON, OR.
[Signed] Ed Wallace
(Water Well Contractor)
Contractor's License No. 583 Date 10-21, 19 78

(USE ADDITIONAL SHEETS IF NECESSARY)

SP*45956-110

OCT 12 2010

DITCHEN LAND CO. #2