

Nancy Rorick Consulting
Hydrogeology, GIS and Water Rights

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Oregon Department of Water Resources
725 Summer Street NE, Suite A
Salem, Oregon 97301-1266

Pueblo Mountain Land Company LLC recently purchased the Trout Creek Ranch in southern Harney County near Fields, Oregon. They are revising the ranch's irrigation systems to improve production and efficiency. This groundwater permit application is for the northern portion of the ranch (referred to as the Dixon place). I have also prepared a transfer application for Pueblo Mountain which we will submit as soon as a Certificate is issued for Permit G12279 (now under the reimbursement authority).

The places of use for the supplemental groundwater and primary surface-water rights in the transfer and permit applications are aligned so that the groundwater permit and transfer order can be issued at the same.

This permit application also asks for increased rates to make up for deficiencies in rate and duty for Certificates 44824 and 51579, and permit G12279. These rights are included in the transfer application as well.

Thank you for your work on the applications and please contact me with any questions that you may have.

Sincerely,



Nancy L. Rorick, RG, CWRE

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6-1969

Application for a Permit to Use Ground Water



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

Water-Use Permit Application Processing

1. Completeness Determination

The Department evaluates whether the application and accompanying map contain all of the information required under OAR 690-310-0040 and OAR 690-310-0050 (www.oregon.gov/owrd/law). The Department also determines whether the proposed use is prohibited by statute. If the Department determines that the application is incomplete, all fees have not been paid, or the use is prohibited by statute, the application and all fees submitted are returned to the applicant.

2. Initial Review

The Department reviews the application to determine whether water is available during the period requested, whether the proposed use is restricted or limited by rule or statute, and whether other issues may preclude approval of or restrict the proposed use. An Initial Review (IR) containing preliminary determinations is mailed to the applicant. The applicant has 14 days from the mailing date to withdraw the application from further processing and receive a refund of all fees paid minus \$200. The applicant may put the application on hold for up to 180 days and may request additional time if necessary.

3. Public Notice

Within 7 days of the mailing of the initial review, the Department gives public notice of the application in the weekly notice published by the Department at www.oregon.gov/owrd. The public comment period is 30 days from publication in the weekly notice.

4. Proposed Final Order Issued

The Department reviews any comments received, including comments from other state agencies related to the protection of sensitive, threatened or endangered fish species. Within 60 days of completion of the IR, the Department issues a Proposed Final Order (PFO) explaining the proposed decision to deny or approve the application. A PFO proposing approval of an application will include a draft permit, and may request additional information or outstanding fees required prior to permit issuance.

5. Public Notice

Within 7 days of issuing the PFO, the Department gives public notice in the weekly notice. Notice includes information about the application and the PFO. Protest must be received by the Department within 45 days after publication of the PFO in the weekly notice. Anyone may file a protest. The protest filing fee is \$350.00 for the applicant and \$700.00 for non-applicants. Protests are filed on approximately 10% of Proposed Final Orders. If a protest is filed, the Department will attempt to settle the protest but will schedule a contested case hearing if necessary.

6. Final Order Issued

If no protests are filed, the Department issues a Final Order consistent with the PFO. If the application is approved, a permit is issued that specifies the details of the authorized use and any terms, limitations or conditions that the Department deems appropriate.

Application for a Permit to Use Ground Water



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SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME DUANE GRANT, PUEBLO MOUNTAIN LAND COMPANY, LLC		PHONE (HM)	
PHONE (WK) (208) 531-5149	CELL 208-431-0006	FAX 208-531-5112	
ADDRESS 707 E 600 N			
CITY RUPERT	STATE ID	ZIP 83350	E-MAIL* DUANE@GRANT4DFARMS.COM DWALDO@WALDOAGENCIES.COM

Organization Information

NAME DUANE GRANT, PUEBLO MOUNTAIN LAND COMPANY, LLC		PHONE		FAX
ADDRESS 707 E 600 N			CELL	
CITY RUPERT	STATE ID	ZIP 83350	E-MAIL* DUANE@GRANT4DFARMS.COM	

Agent Information – The agent is authorized to represent the applicant in all matters relating to this application.

AGENT / BUSINESS NAME NANCY RORICK / DBA NANCY RORICK CONSULTING		PHONE 541-519-3644		FAX
ADDRESS 645 L LOOP			CELL	
CITY BAKER CITY	STATE OR	ZIP 97814	E-MAIL* NRORICK@YAHOO.COM	

Note: Attach multiple copies as needed

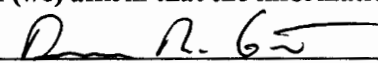
* By providing an e-mail address, consent is given to receive all correspondence from the department electronically. (paper copies of the final order documents will also be mailed.)

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By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application.
- I cannot use water legally until the Water Resources Department issues a permit.
- Oregon law requires that a permit be issued before beginning construction of any proposed well, unless the use is exempt. Acceptance of this application does not guarantee a permit will be issued.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be cancelled.
- The water use must be compatible with local comprehensive land-use plans.
- Even if the Department issues a permit, I may have to stop using water to allow senior water-right holders to get water to which they are entitled.

I (we) affirm that the information contained in this application is true and accurate.


Applicant Signature

Duane R. Grant, President
Print Name and title if applicable

11/30/2015
Date

Applicant Signature

Print Name and title if applicable

Date

For Department Use		
App. No. <u>G-18169</u>	Permit No. _____	Date _____

SECTION 2: PROPERTY OWNERSHIP

Please indicate if you own all the lands associated with the project from which the water is to be diverted, conveyed, and used.

Yes

- There are no encumbrances.
- This land is encumbered by easements, rights of way, roads or other encumbrances.

No

- I have a recorded easement or written authorization permitting access.
- I do not currently have written authorization or easement permitting access.
- Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigation and/or domestic use only (ORS 274.040).
- Water is to be diverted, conveyed, and/or used only on federal lands.

List the names and mailing addresses of all affected landowners (*attach additional sheets if necessary*).

Harney Electric Co-op holds an easement for a high voltage transmission line across the applicant's property. Their address is: 277 Lottery Lane, Hines, OR 97738

You must provide the legal description of: 1. The property from which the water is to be diverted, 2. Any property crossed by the proposed ditch, canal or other work, and 3. Any property on which the water is to be used as depicted on the map.

SECTION 3: WELL DEVELOPMENT

WELL NO.	NAME OF NEAREST SURFACE WATER	IF LESS THAN 1 MILE:	
		DISTANCE TO NEAREST SURFACE WATER	ELEVATION CHANGE BETWEEN NEAREST SURFACE WATER AND WELL HEAD
DW1	Trout Creek	0.66 miles to intermittent channel of Trout Creek	-6.9 ft
DW2	Willow Creek	0.48 miles to intermittent channel of Willow Creek	16.1 ft
DW3	Willow Creek	0.03 miles to intermittent channel of Willow Creek	0.9 ft
DW4	Willow Creek	0.51 miles to intermittent channel of Willow Creek	-15.1 ft

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Please provide any information for your existing or proposed well(s) that you believe may be helpful in evaluating your application. For existing wells, describe any previous alteration(s) or repair(s) not documented in the attached well log or other materials (*attach additional sheets if necessary*).

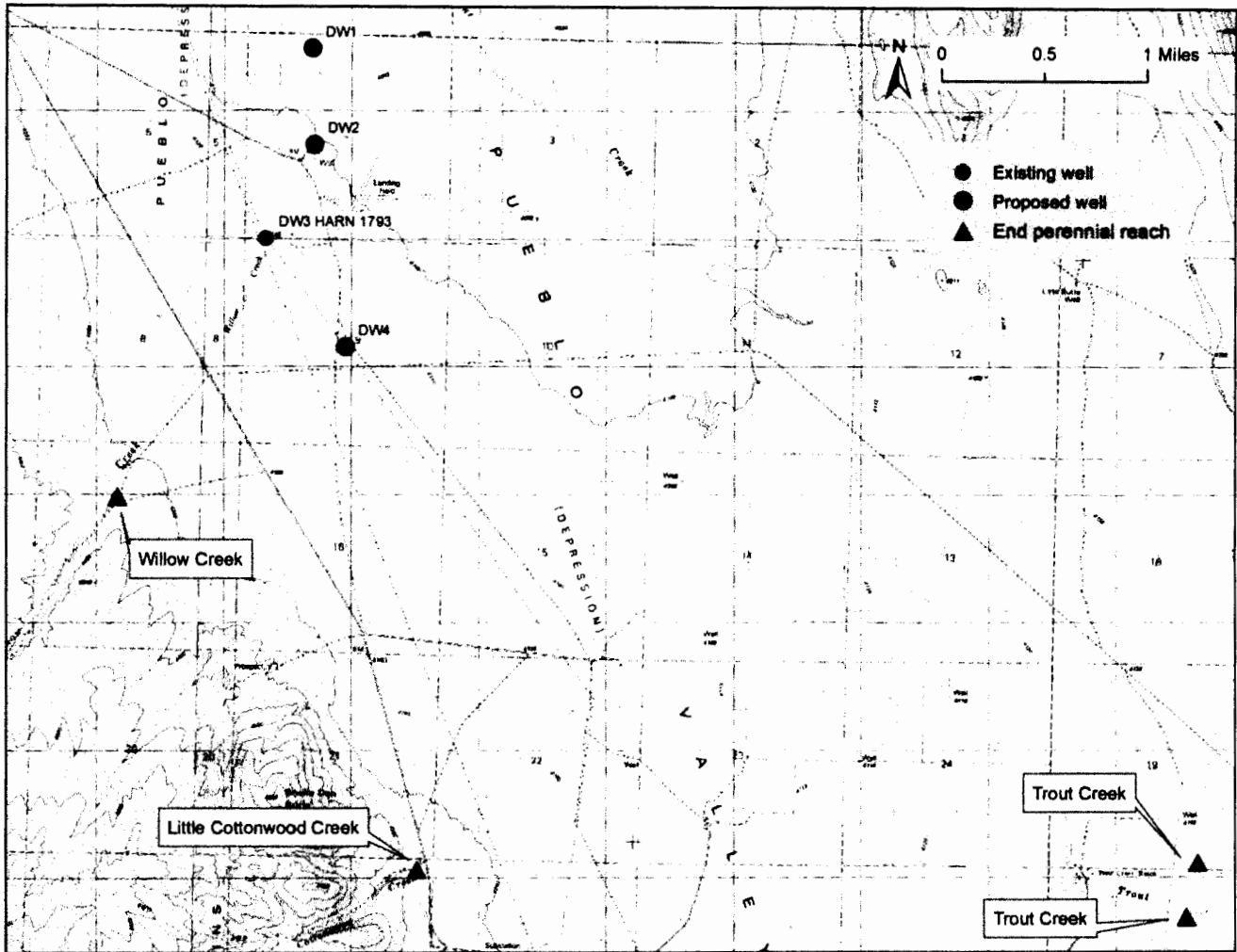
The applicant's farm is located in Pueblo Valley in southern Harney County. Pueblo Valley a closed basin that lies in a down-dropped valley, a part of the Basin and Range. Trout Creek is the largest stream that flows into the Pueblo Valley. Above the USGS gauging station 10 miles upstream of the project, the drainage basin of Trout Creek covers 85 square miles. The gauging station data show that peak flows occur in the spring in response to snow melt. For the period of record, the peak flow at the gauging station was 450 cfs and the minimum flow has been less than 1 cfs. Upon entering the nearly level Pueblo Valley, Trout Creek becomes an

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intermittent stream that meanders northward. Willow Creek and Little Cottonwood Creek flow into Pueblo Valley from the west. These two streams, which are also intermittent, have much smaller watersheds than Trout Creek.

Perennial Reach

Over the summer of 2015, the applicant observed flow in all three streams and noted the ends of the perennial reaches. These are shown on the map below.



The nearest perennial stream reach to the existing and proposed wells is Willow Creek. The distance from the well to perennial reach, and the elevation difference between the well and the end of the perennial reach are given in the table below.

Well	Distance from well to perennial reach of Willow Creek (miles)	Elevation difference between the well and the end of the perennial reach of Willow Creek (feet)
DW1	2.37	134.1
DW2	1.96	121.7
DW3	1.45	99.1
DW4	1.33	97.1

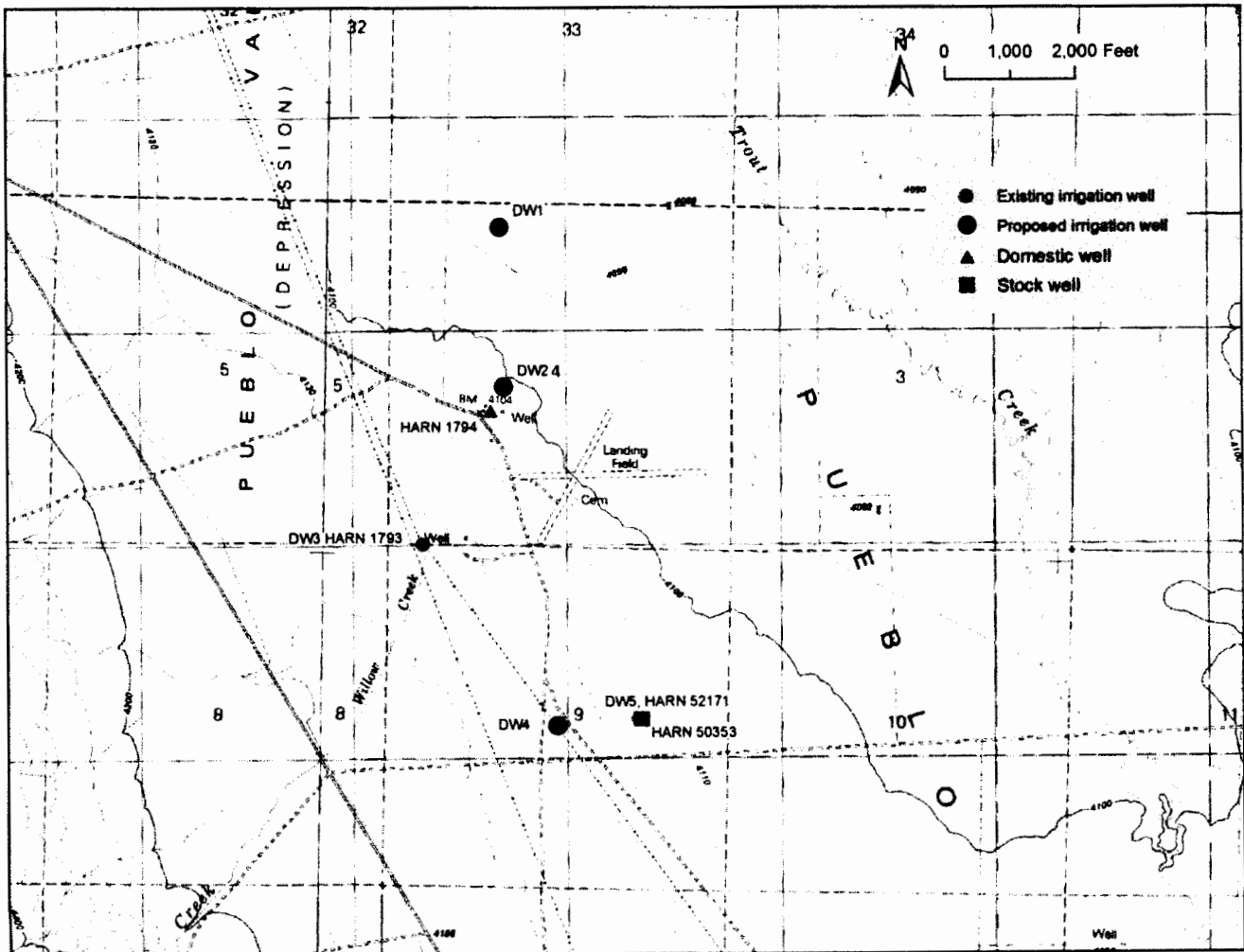
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Target Aquifers and Existing Wells

The Pueblo Valley is a closed basin bounded on either side by mountain ranges. Adjacent to the mountains are large alluvial fans. The center of the valley is occupied by the flood plain of Trout Creek and Tumtum Lake, a small playa lake. The valley fill sediments consist of gravels and coarser-grained sand from the alluvial fan deposits. These are interbedded with finer-grained lake and fluvial sediments consisting of clays and sandy clays. The sand and gravel deposits comprise the aquifers that the existing irrigation wells tap. The applicant's goal is to use one of the existing irrigation wells and to drill three new wells to produce water from these aquifers.

Currently, there are two irrigation wells (HARN 1793 and HARN 52171), one domestic well (HARN 1794), and one stock well (HARN 50353) located on the project site. The Department does not have a well log prepared by a driller on file for one of the irrigation wells, DW5 (HARN 52171). This well is used to irrigate lands under Certificate 60850 and permit G12279. A COBU was submitted to the Department for G12279 in 2000. The applicant invoked the reimbursement authority for this permit and conducted a pump test on the well (attached). Well DW5 is not included in this permit application.

The locations of all existing wells and the proposed wells on the property are shown on the map below. The stock well is located with 15 feet of DW5.



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The wells, for which well logs are available, are summarized in the table below.

Well	Type	Total Depth	Screened Interval	Aquifer	SWL
HARN 50353	Stock	78 feet	58-78 feet	Sand and gravel from 65-75 feet	33.5 (11/11/2015)
HARN 1794	Domestic	Drilled to 55 feet, developed to 45 feet	Not screened	Fine to medium gravel (40-45 feet)	8 feet 4 inches (9/24/1977)
HARN 1793 (DW3)	Irrigation	370 feet	100-370 feet	Gravels with some sand	47.32 feet (11/11/2015)

HARN 1793 was a state observation well from 1963 through 1988. The other nearest state observation well (which is still active) is HARN 1806 locate 4.3 miles SE of well DW4.

Proposed Well Construction

The proposed wells will be sealed to a depth of 25 feet or as specified by the Department. The proposed wells will be constructed in accordance with the Department’s well construction standards and permit conditions.

Recent Water Level Measurements

Downright Drilling measured the water levels in wells HARN 1793 and HARN 52171 on March 19, 2015; Jaxon Higgs (geologist) measured the water levels in the two irrigation wells and the stock well on 11/11/2015. These measurements show less than 2 feet of change in the SWL between the early spring and late fall.

	Static water level measured on 3/19/2015	Static water level measured on 11/11/2015
Well DW3 (HARN 1793)	46 feet	47.32 feet
Well DW5 (HARN 52171)	32 feet	33.66 feet
HARN 50343 (stock well)		33.57 feet

Nearby Wells

The nearest well north of the project is a 65-foot-deep stock well (HARN 1791) located on BLM Land 2.2 miles northwest of proposed well DW1. The two nearest active irrigation wells to the south are owned by the applicant. HARN 2080 is 1.7 miles southeast of well DW4 and HARN 1795 is 2.3 miles southeast of well DW4.

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SECTION 3: WELL DEVELOPMENT, CONTINUED

Total maximum rate requested: 7.2 CFS (see rate and duty calculations in section 10). (each well will be evaluated at the maximum rate unless you indicate well-specific rates and annual volumes in the table below).

The table below must be completed for each source to be evaluated or the application will be returned. If this is an existing well, the information may be found on the applicable well log. (If a well log is available, please submit it in addition to completing the table.) If this is a proposed well, or well-modification, consider consulting with a licensed well driller, geologist, or certified water right examiner to obtain the necessary information.

OWNER'S WELL NAME OR NO.	PROPOSED	EXISTING	WELL ID (WELL TAG) NO.* OR WELL LOG ID**	FLOWING ARTESIAN	CASING DIAMETER	CASING INTERVALS (IN FEET)	PERFORATED OR SCREENED INTERVALS (IN FEET)	SEAL INTERVALS (IN FEET)	MOST RECENT STATIC WATER LEVEL & DATE (IN FEET)	PROPOSED USE			
										SOURCE AQUIFER***	TOTAL WELL DEPTH	WELL-SPECIFIC RATE (GPM)	ANNUAL VOLUME (ACRE- FEET)
DW1	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	16 inch	To be determined	To be determined	0-25 ft		Sand and gravel	300 to 600 ft	All wells will be connected. The total rate is 3,231.4 GPM	1777.7 for all wells.
DW2	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	16 inch	To be determined	To be determined	0-25 ft		Sand and gravel	300 to 600 ft		
DW3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	HARN 1793	<input type="checkbox"/>	14 inch	0-370 ft	100-360 ft	0-19 ft	47.32 (11/11/2015)	Sand and gravel	370 ft		
DW4	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	16 inch	To be determined	To be determined	0-25 ft		Sand and gravel	300 to 600 ft		
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									
	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>									

* Licensed drillers are required to attach a Department-supplied Well Tag, with a unique Well ID or Well Tag Number to all new or newly altered wells. Landowners can request a Well ID for existing wells that do not have one. The Well ID is intended to serve as a unique identification number for each well.
 ** A well log ID (e.g. MARI 1234) is assigned by the Department to each log in the agency's well log database. A separate well log is required for each subsequent alteration of the well.
 *** Source aquifer examples: Troutdale Formation, gravel and sand, alluvium, basalt, bedrock, etc.

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SECTION 4: WATER USE

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Irrigation	March 15 – October 15	1777.7 AF

Exempt Uses: Please note that 15,000 gallons per day for single or group **domestic** purposes and 5,000 gallons per day for a single **industrial or commercial** purpose are exempt from permitting requirements.

For irrigation use only:
 Please indicate the number of primary and supplemental acres to be irrigated (*must match map*).
 Primary: 77.8 Acres Supplemental: 293.2 Acres
 Making up deficiencies in rate and duty for primary groundwater certificate G12279 79.2 acres and supplemental groundwater certificates 44824 137.7 acres and 51579 26 acres *see calculations in section 10*.
 List the Permit or Certificate number of the underlying primary water right(s): Certificates 894 and 26828, the 1917 amendment to the Trout Creek Decree, transfer order D26 and the following rights from the Trout Creek Decree: Melvin M. Doan priority dates 1897 and 1899.
 Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 1777.7

- If the use is **municipal or quasi-municipal**, attach **Form M**
- If the use is **domestic**, indicate the number of households: n/a
 If the use is **mining**, describe what is being mined and the method(s) of extraction: n/a

SECTION 5: WATER MANAGEMENT

A. Diversion and Conveyance

What equipment will you use to pump water from your well(s)?

Well DW1

Pump (give horsepower and type): 250 HP, submersible

Other means (describe): _____

Well DW2

Pump (give horsepower and type): 250 HP, submersible

Other means (describe): _____

Well DW3 (Existing)

Pump (give horsepower and type): unknown

Other means (describe): _____

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Well DW4

Pump (give horsepower and type): 250 HP, submersible

Other means (describe): _____

Well DW5

Pump (give horsepower and type): 150 HP

Other means (describe): _____

Provide a description of the proposed means of diversion, construction, and operation of the diversion works and conveyance of water. Water will be pumped and distributed to the irrigation pivots via the main lines shown on the attached map. All four wells will be linked together.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler) The fields will be irrigated with irrigation pivots. The one rectangular field will be irrigated with a wheel line.

C. Conservation

Please describe why the amount of water requested is needed and measures you propose to: prevent waste; measure the amount of water diverted; prevent damage to aquatic life and riparian habitat; prevent the discharge of contaminated water to a surface stream; prevent adverse impact to public uses of affected surface waters.

1. Soil moisture will be monitored and the fields will be irrigated only as needed.
2. Soil moisture will be monitored using hand-check soil moisture evaluation as recommended by University of Idaho. For problematic areas where the applicant is not confident in the accuracy of the hand-check, he will install WaterMark® moisture monitoring and evaluation devices.
3. The nozzles on the pivots will produce pressure drops. This means that the pivot creates large drops of water that are less affected by the wind and evaporation than small drops.

SECTION 6: STORAGE OF GROUND WATER IN A RESERVOIR

If you would like to store ground water in a reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Reservoir name: n/a Acreage inundated by reservoir: _____

Use(s): _____

Volume of Reservoir (acre-feet): _____ Dam height (feet, if excavated, write "zero"): _____

Note: If the dam height is greater than or equal to 10.0' above land surface AND the reservoir will store 9.2 acre feet or more, engineered plans and specifications must be approved prior to storage of water.

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SECTION 7: USE OF STORED GROUND WATER FROM THE RESERVOIR

If you would like to use stored ground water from the reservoir, complete this section (*if more than one reservoir, reproduce this section for each reservoir*).

Annual volume (acre-feet): n/a

USE OF STORED GROUND WATER	PERIOD OF USE
n/a	

SECTION 8: PROJECT SCHEDULE

Date construction will begin: 1/1/2016

Date construction will be completed: 1/1/2026

Date beneficial water use will begin: 3/15/2016

SECTION 9: WITHIN A DISTRICT

Check here if the point of diversion or place of use are located within or served by an irrigation or other water district.

Irrigation District Name n/a	Address	
City	State	Zip

SECTION 10: REMARKS

Use this space to clarify any information you have provided in the application (*attach additional sheets if necessary*).

Rate and Duty

The applicant is requesting a rate of 1/60th of one cfs per acre and a duty of 4 acre-feet per acre. The rate of 1/60th (7.5 gpm per acre) is needed to operate the system of pivots at peak efficiency. When water is applied at a lower rate it primarily wets the upper 8 inches of the soil profile. This exposes the applied water to comparatively higher surface evaporation than if the water is allowed to percolate deeper.

The primary and only economically viable crop is alfalfa hay. This is due to the farm's remote location in southern Harney County and the area's predominance of cattle production. The Bureau of Reclamation has developed evapotranspiration (ET) values for alfalfa at various sites in the west. The closest and most similar site to the applicant's farm is in Lakeview, Oregon, similar in elevation, climate, and latitude. Lakeview ET records for 1988 through 2010 growing seasons show the ET rate for alfalfa at 45.5 inches. A higher rate of ET is expected at the applicant's farm due to its relatively lower elevation, 4100 feet, as compared to 4800 feet at Lakeview. A duty of 4 acre-feet per acre would be sufficient to meet this need.

The table (below) shows the results of water balance for an irrigation rate of 1/60th based on the ET rates for alfalfa from the Lakeview station. This table demonstrates the need for a duty of 4 acre feet due to local climate conditions.

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Irrigation at 1/60 CFS per Acre								
	April	May	June	July	August	Sept.	Oct.	Total
Lakeview ET Alfalfa Inches/acre/month	4.11	6.17	7.8	9.73	8.44	5.86	3.38	45.49
Irrigation Days (30.4 avg minus 7 for cutting)	30.4	30.4	23.4	23.4	23.4	30.4	15.0	
Inches/day irrigation limit @ .016667 CFS/acre	0.40	0.40	0.40	0.40	0.40	0.40	0.40	
Irrigation efficacy at average	80%	80%	80%	80%	80%	80%	80%	
Net/Inches/day irrigation	0.32	0.32	0.25	0.25	0.25	0.32	0.16	
ET per day	0.14	0.20	0.26	0.32	0.28	0.19	0.11	
Daily Surplus/(deficit): ET minus irrigation	0.18	0.12	-0.01	-0.07	-0.03	0.13	0.05	
Percent of ET	137%	58%	-4%	-23%	-11%	66%	42%	

Rate and Duty Calculations

There are three Certificates with deficiencies in rate and duty. They all have rates less than 1/60th and duties less than 4 acre-feet per acre. The calculations raise the rate from 1/80th to 1/60th and the duty from 3 acre-feet per acre to 4 acre-feet per acre.

Existing certificates and permit	Type	Acres	Rate allowed on certificate (CFS)	Rate at 1/60 th (CFS)	Rate needed to make up deficiency (CFS)	Deficiency of 1 AF per acre (AF)
G12279	Primary	79.2	0.99	1.32	0.33	79.2
51579	Supplemental	26	0.33	0.43	0.1	26
44824	Supplemental	137.7	1.72	2.3	0.58	137.7
Total		242.9	3.04	4.05	1.01	242.9

The rate and duties for the new Supplemental and Primary Ground water rights are.

	Acres	Rate at 1/60 th (CFS)	Duty at 4 AF per acre
New primary	77.8	1.3	101.1
New supplemental	293.2	4.89	1433.7
Total	371	6.19	1534.8

Therefore, the total duty requested in this permit is 1,777.7 AF and the total rate is 7.2 CFS.

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Irrigation season

The irrigation season listed in the Trout Creek Decree is from March 15 through October 1. The applicant is requesting the use of water from March 15 through October 15. Extending the irrigation season until October 15 would allow the applicant to irrigate winter wheat.

Concurrent Transfer

The applicant will submit a transfer application as soon as a Certificate is issued for Permit G12279. The purpose of this transfer is to arrange the existing primary surface and groundwater rights to match the supplemental rights applied for in this permit application.

Attachments

Groundwater Permit Application Map 1

Groundwater Permit Application Map 2

Pump test for well HARN 52171

Deed

Well logs:

DW3 HARN 1793, existing irrigation well

DW5, HARN 52171, existing irrigation well

HARN 1794, existing domestic well

HARN 50353, existing stock well

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Land Use

Information Form



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

NOTE TO APPLICANTS

In order for your application to be processed by the Water Resources Department (WRD), this Land Use Information Form must be completed by a local government planning official in the jurisdiction(s) where your water right will be used and developed. The planning official may choose to complete the form while you wait, or return the receipt stub to you. Applications received by WRD without the Land Use Form or the receipt stub will be returned to you. Please be aware that your application will not be approved without land use approval.

This form is NOT required if:

- 1) Water is to be diverted, conveyed, and/or used only on federal lands; **OR**
- 2) The application is for a water right transfer, allocation of conserved water, exchange, permit amendment, or ground water registration modification, and **all** of the following apply:
 - a) The existing and proposed water use is located entirely within lands zoned for exclusive farm-use or within an irrigation district;
 - b) The application involves a change in place of use only;
 - c) The change does not involve the placement or modification of structures, including but not limited to water diversion, impoundment, distribution facilities, water wells and well houses; **and**
 - d) The application involves irrigation water uses only.

NOTE TO LOCAL GOVERNMENTS

The person presenting the attached Land Use Information Form is applying for or modifying a water right. The Water Resources Department (WRD) requires its applicants to obtain land-use information to be sure the water rights do not result in land uses that are incompatible with your comprehensive plan. Please complete the form or detach the receipt stub and return it to the applicant for inclusion in their water right application. You will receive notice once the applicant formally submits his or her request to the WRD. The notice will give more information about WRD's water rights process and provide additional comment opportunities. You will have 30 days from the date of the notice to complete the land-use form and return it to the WRD. If no land-use information is received from you within that 30-day period, the WRD may presume the land use associated with the proposed water right is compatible with your comprehensive plan. Your attention to this request for information is greatly appreciated by the Water Resources Department. If you have any questions concerning this form, please contact the WRD's Customer Service Group at 503-986-0801.

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Land Use

Information Form



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

Applicant: Duane Grant
First Last

Mailing Address: 707 E 600 N

Rupert ID 83350 Daytime Phone: (208) 531-5149
City State Zip

A. Land and Location

Please include the following information for all tax lots where water will be diverted (taken from its source), conveyed (transported), and/or used or developed. Applicants for municipal use, or irrigation uses within irrigation districts may substitute existing and proposed service-area boundaries for the tax-lot information requested below.

Township	Range	Section	¼ ¼	Tax Lot #	Plan Designation (e.g., Rural Residential/RR-5)	Water to be:			Proposed Land Use:
38S	35E	33		600	EFRU-1	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	farm
39S	35E	4		400	EFRU-1	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	farm
39S	35E	9		400, 500	EFRU-1	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	farm
						<input type="checkbox"/> Diverted	<input type="checkbox"/> Conveyed	<input type="checkbox"/> Used	

List all counties and cities where water is proposed to be diverted, conveyed, and/or used or developed:

Harney County	RECEIVED DEC 07 2015 OWRD
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B. Description of Proposed Use

Type of application to be filed with the Water Resources Department:

- Permit to Use or Store Water
 Water Right Transfer
 Permit Amendment or Ground Water Registration Modification
 Limited Water Use License
 Allocation of Conserved Water
 Exchange of Water

Source of water: Reservoir/Pond Ground Water Surface Water (name) _____

Estimated quantity of water needed: 7.2 cubic feet per second gallons per minute acre-feet

Intended use of water: Irrigation Commercial Industrial Domestic for _____ household(s)
 Municipal Quasi-Municipal Instream Other _____

Briefly describe:

The applicant is proposing to irrigate with pivot irrigation and make up a deficiency in rate and duty of existing water rights.

Note to applicant: If the Land Use Information Form cannot be completed while you wait, please have a local government representative sign the receipt at the bottom of the next page and include it with the application filed with the Water Resources Department.

See bottom of Page 3. →

For Local Government Use Only

The following section must be completed by a planning official from each county and city listed unless the project will be located entirely within the city limits. In that case, only the city planning agency must complete this form. This deals only with the local land-use plan. Do not include approval for activities such as building or grading permits.


Please check the appropriate box below and provide the requested information

- Land uses to be served by the proposed water uses (including proposed construction) are allowed outright or are not regulated by your comprehensive plan. Cite applicable ordinance section(s): _____. EFRU-1 / HCZO 3.010
- Land uses to be served by the proposed water uses (including proposed construction) involve discretionary land-use approvals as listed in the table below. (Please attach documentation of applicable land-use approvals which have already been obtained. Record of Action/land-use decision and accompanying findings are sufficient.) **If approvals have been obtained but all appeal periods have not ended, check "Being pursued."**

Type of Land-Use Approval Needed (e.g., plan amendments, rezones, conditional-use permits, etc.)	Cite Most Significant, Applicable Plan Policies & Ordinance Section References	Land-Use Approval:	
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued
		<input type="checkbox"/> Obtained <input type="checkbox"/> Denied	<input type="checkbox"/> Being Pursued <input type="checkbox"/> Not Being Pursued

Local governments are invited to express special land-use concerns or make recommendations to the Water Resources Department regarding this proposed use of water below, or on a separate sheet.

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Name: Brandon McMullen Title: Planning Director
 Signature:  Phone: 5415736655 Date: 11/30/15

Government Entity: Harney County

Note to local government representative: Please complete this form or sign the receipt below and return it to the applicant. If you sign the receipt, you will have 30 days from the Water Resources Department's notice date to return the completed Land Use Information Form or WRD may presume the land use associated with the proposed use of water is compatible with local comprehensive plans.

Receipt for Request for Land Use Information

Applicant name: _____
 City or County: _____ Staff contact: _____
 Signature: _____ Phone: _____ Date: _____



Date _____

(For staff use only)



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

WE ARE RETURNING YOUR APPLICATION FOR THE FOLLOWING REASON(S):

- SECTION 1: _____
- SECTION 2: _____
- SECTION 3: _____
- SECTION 4: _____
- SECTION 5: _____
- SECTION 6: _____
- SECTION 7: _____
- SECTION 8: _____
- SECTION 9: _____
- Land Use Information Form _____
- Provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.
- Fees _____

MAP

- Permanent quality and drawn in ink
- Even map scale not less than 4" = 1 mile (example: 1" = 400 ft, 1" = 1320 ft, etc.)
- North Directional Symbol
- Township, Range, Section, Quarter/Quarter, Tax Lots
- Reference corner on map
- Location of each well, and/or dam if applicable, by reference to a recognized public land survey corner (distances north/south and east/west). Each well must be identified by a unique name and/or number.
- Indicate the area of use by Quarter/Quarter and tax lot clearly identified
- Number of acres per Quarter/Quarter and hatching to indicate area of use if for primary irrigation, supplemental irrigation, or nursery
- Location of main canals, ditches, pipelines or flumes (if well is outside of the area of use)
- Other _____

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OBSERVATION WELL

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NOTICE TO WATER WELL CONTRACTOR
 The original and first copy of this report are to be filed with the STATE ENGINEER, SALEM 10, OREGON within 30 days from the date of well completion.

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

1793
Harney
G-4160

State Well No. 39/35-4N
 State Permit No. _____

(1) OWNER:

Name Warren McLean
 Address Andrews, Oregon

(2) LOCATION OF WELL:

County Harney Driller's well number 17
SW 1/4 SW 1/4 Section 4 T. 39S R. 35E W.M.
 Bearing and distance from section or subdivision corner
600 ft east of the SW corner, 75 ft north of south section line

(3) TYPE OF WORK (check):

Well Deepening Reconditioning Abandon
 Abandonment, describe material and procedure in Item 12.

(4) PROPOSED USE (check):

Domestic Industrial Municipal
 Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Driven
 Cable Jetted
 Dug Bored

(6) CASING INSTALLED:

Threaded Welded
1 1/4" Diam. from 0 ft. to 370 ft. Gage 1/4"
 " Diam. from _____ ft. to _____ ft. Gage _____
 " Diam. from _____ ft. to _____ ft. Gage _____

(7) PERFORATIONS:

Perforated? Yes No
 Type of perforator used Mill cut
 Size of perforations 1/8 in. by 4 in.
5200 perforations from 100 ft. to 360 ft.
 perforations from _____ ft. to _____ ft.
 perforations from _____ ft. to _____ ft.
 perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed Yes No
 Manufacturer's Name _____ Model No. _____
 Diam. Slot size Set from _____ ft. to _____ ft.
 Diam. Slot size Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

Well seal—Material used in seal Bentonite
 Depth of seal 19 ft. Was a packer used? No
 Diameter of well bore to bottom of seal 30 in.
 Were any loose strata cemented off? Yes No Depth _____
 Was a drive shoe used? Yes No
 Was well gravel packed? Yes No Size of gravel: 3/4 minus
 Gravel placed from 0 ft. to 370 ft.
 Did any strata contain unusable water? Yes No
 Type of water? soft Depth of strata _____
 Method of sealing strata off _____

(10) WATER LEVELS:

Static level 39 ft. below land surface Date 3/28/63
 Artesian pressure _____ lbs. per square inch Date _____

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom Worthington
 Yield: 1760 gal./min. with 54 ft. drawdown after 10 hrs.
 " " " " "
 " " " " "
 " " " " "
 Baller test gal./min. with _____ ft. drawdown after _____ hrs.
 Artesian flow _____ g.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well below casing _____
 Depth drilled 370 ft. Depth of completed well 370 ft.
 Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
clay brown	0	22
gravel fine	22	23
clay brown	23	40
gravel medium	40	66
clay brown	66	91
gravel course	91	103
clay brown	103	111
gravel medium, br clay	111	179
gravel course, br clay	179	201
gravel medium	201	210
clay brown	210	227
gravel medium, br clay	227	292
clay brown	292	310
sand fine black	310	312
gravel course	312	326
clay brown hard	326	335
gravel course, med	335	358
clay brown	358	370

a 30" x 3/8" X 19' conductor casing installed at top sealed in clay with bentonite, balance 24" hole 14" casing sealed at bottom, bottom 10' blank casing 260' perforated, Gravel packed

Work started Mar 15 19 63 Completed Mar 28 19 63
 Date well drilling machine moved off of well Mar 28 19 63

(13) PUMP:

Manufacturer's Name _____ Type: _____ H.P. _____

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 McGuire Drilling Co. (Type or print)
 Address Box 909 Burns, Oregon

Drilling Machine Operator's License No. 81
 [Signed] J. L. McGuire (Water Well Contractor)
 Contractor's License No. 383 Date 3/30, 1963

G-18169

NOTICE TO WATER WELL CONTRACTOR

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

RECEIVED WATER WELL REPORT RECEIVED

STATE ENGINEER, SALEM, OREGON 97310
within 30 days from the date of well completion.

STATE OF OREGON

APR 3 1978

State Well No. 395/35E-4ca

WATER RESOURCES DEPT. SALEM, OREGON

State Permit No. ARRN 1794

(1) OWNER:

Name Ronald McLean
Address Fields, 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 0 ft. to 39'10" ft. Gage 250
" 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?

Yield: gal./min. with ft. drawdown after hrs.

Ballor test 48 gal./min. with 11 1/2" ft. drawdown after 1 1/2 hrs.

Artesian flow g.p.m.

Temperature of water 46° Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Well seal—Material used Concrete

Well sealed from land surface to 21 ft.

Diameter of well bore to bottom of seal 9 in.

Diameter of well bore below seal 6 in.

Number of sacks of cement used in well seal 4 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 Harney Driller's well number
NE 1/4 SW 1/4 Section 4 T. 39 R. 35 W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 15 ft.
Static level 8'4" ft. below land surface. Date 9-24-77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6"
Depth drilled 55' ft. Depth of completed well 45' 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
Top Soil	0	3	0
Med. Sand (Brown)	3	25	15'
Med. Gravel + Sand Cemented (Brown)	25	30	15'
Clay + Med. Gravel (Brown)	30	40	15'
Fine to Med. Gravel (Brown)	40	55	8 1/2'
Water Bearing?			

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Work started 9-23 1977 Completed 9-24 1977

Date well drilling machine moved off of well 9-24 1977

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] John W. Rossberg Date 12-12, 1977
(Drilling Machine Operator)

Drilling Machine Operator's License No. 269

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 Rossberg & Son
(Person, firm or corporation) (Type or print)

Address Argona, Oregon

[Signed] John W. Rossberg
(Water Well Contractor)

Contractor's License No. 272 Date 12-12, 1977

G-18169

**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 20413
START CARD # 109996

(1) OWNER: Well Number #1

Name STAFFORD RANCHES
Address 1110 LAUGHLIN ROAD
City PRINEVILLE State OR Zip 97754

(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 78 ft.
Explosives used Yes No Type - Amount -

HOLE			SEAL				
Diameter	From	To	Material	From	To	Bags or pounds	
10	0	18	BENTONITE	0	18	10 SACKS	
8	18	78					

How was seal placed: Method A B C D E
 Other POURED DOWN DRY
Backfill placed from 18 ft. to 78 ft. Material 3/8
Gravel placed from 18 ft. to 78 ft. Size of gravel 3/8

(6) CASING/LINER:

	Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing:	6	+2	78	250	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liner:					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Final location of shoe(s) NO SHOE USED

(7) PERFORATIONS/SCREENS:

Perforations Method TORCH CUT
 Screens Type SLOT Material STEEL

From	To	Slot size	Number	Diameter	Tele./pipe size	Casing	Liner
58	78	1/8x3	45	6	-	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

	<input type="checkbox"/> Pump	<input type="checkbox"/> Bailor	<input checked="" type="checkbox"/> Air	<input type="checkbox"/> Flowing Artesian
Yield gal/min	Drawdown	Drill stem at	Time	
25	0	76	1 hr.	

Temperature of water 58° Depth Artesian Flow Found _____
Was a water analysis done? Yes By whom _____
Did any strata contain water not suitable for intended use? Too little
 Salty Muddy Odor Colored Other _____
Depth of strata: _____

(9) LOCATION OF WELL by legal description:

County HARNEY Latitude _____ Longitude _____
Township 39 N or S Range 35 E or W. WM.
Section 9 N E 1/4 S E 1/4
Tax Lot 500 Lot _____ Block _____ Subdivision _____
Street Address of Well (or nearest address) _____

TROUT CREEK RANCH-FIELDS

(10) STATIC WATER LEVEL:
25 ft. below land surface. Date 10-8-98
Artesian pressure _____ lb. per square inch. Date _____

(11) WATER BEARING ZONES:

Depth at which water was first found 65'

From	To	Estimated Flow Rate	SWL
65	78	50+GPM	25

(12) WELL LOG:
Ground Elevation _____

Material	From	To	SWL
SANDY TOP SOIL	0	3	
BROWN SANDY CLAY	3	10	
TAN SANDY CLAY	10	65	
BROWN SAND & GRAVELS	65	75	25
BROWN SANDY CLAY	75	78	

Date started 10-8-98 Completed 10-8-98

(unbonded) Water Well Constructor Certification:

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

Signed _____ WWC Number _____ Date _____

(bonded) Water Well Constructor Certification:

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

Signed [Signature] WWC Number 1556 Date 10-15-98

HARN 52171

WELL I.D. # L _____

(1) LAND OWNER Well Number _____
 Name Pueblo Mountain Land Co., LLC
 Address 707 E 600 N
 City Rupert State ID Zip 83350

(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 535 ft.
 Explosives used Yes No Type _____ Amount _____

HOLE		SEAL		Sacks or pounds
Diameter	From To	Material	From To	

How was seal placed: Method A B C D E
 Other _____

Backfill placed from _____ ft. to _____ ft. Material _____
 Gravel placed from _____ ft. to _____ ft. Size of gravel _____

(6) CASING/LINER:

Diameter	From	To	Gauge	Steel	Plastic	Welded	Threaded
Casing: <u>16</u>	<u>0</u>	<u>89</u>	<u>0.25</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Liner:				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

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

(7) PERFORATIONS/SCREENS:

From	To	Slot size	Number	Diameter	Tele/pipe size	Casing	Liner
<u>89</u>	<u>185</u>		<u>Perforations</u>			<input checked="" type="checkbox"/>	<input type="checkbox"/>
<u>185</u>	<u>529</u>		<u>Screen</u>			<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

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

Yield gpm/min	Drawdown	Drill stem at	Flowing	Time
<u>4200</u>	<u>151</u>		<input type="checkbox"/> Artesian	<u>1 hr.</u>

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

(9) LOCATION OF WELL by legal description:
 County Harney Latitude _____ Longitude _____
 Township 39 5 N of S Range 35 E of W. WM.
 Section 9 NW 1/4 SE 1/4
 Tax Lot 500 Lot _____ Block _____ Subdivision _____
 Street Address of Well (or nearest address) _____

(10) STATIC WATER LEVEL:
20 ft. below land surface. Date 9-1-1977
 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
<i>Construction dates and depth from Forms A & B in file G-7933. Notes in file G-13863 indicate that the well was drilled by Joe Armstrong of Nevada. Perforated & screened intervals were determined during a recent (2005?) cone vs survey by the current owner, Pueblo Mountain Co.</i>			
<i>The well was drilled for the original owner, Dan S. Orlando, Orlando Trout Creek Ranch. No well log was found.</i>			

Date started 7-26-1977 Completed 9-1-1977

SOURCE OF DATA/INFO Water right files G-7933 + G-13863. This is the POA described on certificate 60850 and permit G-12279 (pre-certificate).
 COMPILED BY: Karl Wozniak
Groundwater Section.

DATE: April 16, 2015

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WELL INFORMATION REPORT

11/16/2000

G-10169

Oregon Water Resources Department
PUMP TEST FORM COVER SHEET

Well Owner:
 Name: Pueblo Mtn Land Co., LLC
 Address: 707 E 800 N
 County: Harney
 City: Rupert State: ID Zip: 83350
 Original owner (from well log): original well log not available POD ID: _____

Well Location:
 Township: 39S (N/S) Range: 35E (E/W)
 Section: 9 $\frac{1}{4}$: NW $\frac{1}{16}$: SW $\frac{1}{64}$: SE
 Well depth: 529 ft Date drilled: unknown
 Owners well no. (if any): _____

Water Right Information:
 Application: _____ Permit: G12279 Certificate: _____
 Is this well listed on more than one water right? Yes If yes, list additional water rights below:
 Application: G7933 Permit: G7206 Certificate: 60850
 Application: _____ Permit: _____ Certificate: _____

Pump Test:
 Test Conducted by: Marshall Davis Well Owner? Yes
 Company: Romans Pumps & Machinery
 Address: 297 W 12th St Date of Test: _____
 City: Vale State: OR Zip: 97918
 Daytime phone: 208-465-5663

Method of discharge measurement (see our brochure for acceptable methods): Flow Meter
 Method of water-level measurement (pick one or enter other method used): Sounder
 Length of air line (if used): _____
 Pump type (pick one or enter other method used): Deep Well Turbine
 Was the pump test conducted during normal use of the well? Yes Note: _____
 Are you aware of any wells, other than domestic or stock wells, pumping within 1000 feet of the tested well during the test or within 24 hours prior to the test? Yes Note: No
 If yes, give approximate distances to each and approximate pumping rate of each. If possible, indicate if they were turned on or off during the test: _____

Is there a lake, stream or other surface water body within $\frac{1}{4}$ mile of the tested well? Yes If yes, give approximate distance from the well and approximate elevation difference between the surface water and the well head. Approx. distance: _____ ft Approx. elevation difference: _____ ft
 Well elevation is _____ surface water body.

Description of measuring point (e.g. top port of 1 inch port pipe, west side) _____
Top of Well casing
 Measuring point distance _____ land surface _____ feet.

Static water level measurements: (A minimum of three measurements are required in the hour before pumping begins at no less than 20 minutes apart):

Time	Depth to water below meas. point	Depth to water below land surface
<u>7:00</u>	_____	<u>37.6 feet</u>
<u>7:30</u>	_____	<u>37.6</u>
<u>7:40</u>	_____	<u>37.6</u>

Discharge measurements: (A discharge measurement is required at the start of pumping and at least once an hour during the test; additional measurements should be noted on the Pump Test Data Sheet):

Time	Discharge Rate	Discharge Units (e.g. gpm, cfs, etc)
<u>8:00</u>	<u>2200 GPM</u>	_____
<u>9:00</u>	<u>2000 "</u>	_____
<u>10:00</u>	<u>2000 "</u>	_____
<u>12:00</u>	<u>2000 "</u>	_____

Time pump turned on: Date 2-20-15 Time 8:00 am
 Time pump turned off: Date 2-20-15 Time 12:00 pm
 Total pumping time: 4 hours 0 minutes

Note: Well must be idle for at least 16 hours prior to the test.
 Additional forms can be obtained from our web site at: <http://www.wrd.state.or.us>

OWRD 2/9/2000

Required Signature: Marshall R Davis

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PUMP TEST DATA SHEET
G12279

Application: Fields Or Permit: No Well Log Certificate: Dickson 3 Pod Id: _____

All water-level measurements must either be in feet and inches, or feet and decimal fractions.

Drawdown Data

Recovery Data

Drawdown Data						Recovery Data					
Date	Time	Time Since Pump Started (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments	Date	Time	Time Since Pump Stopped (minutes)	Depth to Water Below Measuring Pt	Depth to Water Below Land Surface	Comments
2-20	7 am		37.6		Pre-pumping Phase	2-20-15	12 PM	0	183.2		
	7.20		37.8				12.02		179.6		
	7.40		37.6				12.04		170.3		
	8 am		37.6				12.08		168.5		
	8.04		109		Pumping Phase		12.08		161.2		
	8.06		170		2200 GPM		12.10	10	160.5		
	8.08		185		2200 GPM		12.15		154		
	8.10	10	183		2000 GPM		12.20		151.3		
	8.15		178		2000 GPM		12.25		148.8		
	8.21		179.2				12.30		143.4		
	8.30		180				12.35		140.1		
	8.40		180.4				12.40	40	139.2		
	8.45		181.5				12.55		125		
	8.52		183.6				1.10		120.3		
	9am	60	180				1.25		119.2		
	9.15		181				1.40	100	105.6		
	9.30		184.7				2.05		100.2		
	9.45		183.7				2.20		96.1		
	10am	120	183				2.35		75.5		cascading stop
	10.15		183.6				2.50	170	60.3		
	10.30		183.2				3.05		58.0		
	10.45		183				3.20		56.2		
	11am	180	183				3.35		56.2		
	11.15		183.6				3.50	240	56.1		
	11.30		183.2				4.05				Done
	11.45		183								
	12pm	240	183.2		2000 GPM						
Shut Down											

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Western Title & Escrow
 Order Number: 91147

HARNEY COUNTY, OR 2014-1644
 DEEDWD 12/30/2014 11:25 AM
 Total: \$66.00



I, Derrin Robinson, County Clerk for Harney County, Oregon certify that the instrument identified herein was recorded in the Clerk records.

Derrin E. Robinson, Harney County Clerk



Grantor
Stafford Ranches, LLC Attn: Mark K. Stafford 4411 NW Elliott Lane Prineville, OR 97754
Pueblo Mountain Land Company, LLC Attn: Duane D Grant 707 E. 600 North Rupert, ID 83350
Until a change is requested, all tax statements shall be sent to the following address:
Pueblo Mountain Land Company, LLC Attn: Duane D Grant 707 E. 600 North Rupert, ID 83350

Reserved for Recorder's Use

STATUTORY WARRANTY DEED

Stafford Ranches, LLC, an Oregon limited liability company, who acquired title as Stafford Ranches, an Oregon general partnership (as to Parcel A), Milton Stafford, Mark K. Stafford, Michael Stafford, Samuel J. Stafford, each to an undivided 25% interest (as to Parcel B), Grantor conveys and warrants to Pueblo Mountain Land Company, LLC, an Idaho limited liability company, Grantee the following described real property free of encumbrances except as specifically set forth herein:

Located in Harney County, Oregon:

SEE ATTACHED "EXHIBIT A"

Account:
 Map & Tax Lot:

This property is free of encumbrances, EXCEPT: All those items of record, if any, as of the date of this deed, including any real property taxes due, but not yet payable.

The true consideration for this conveyance is \$9,900,000.00, which is paid to an Accommodator as part of an IRC 1031 Exchange.. (Here comply with requirements of ORS 93.030.)

BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON TRANSFERRING FEE TITLE SHOULD INQUIRE ABOUT THE PERSON'S RIGHTS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009, AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010. THIS INSTRUMENT DOES NOT ALLOW USE OF THE PROPERTY DESCRIBED IN THIS INSTRUMENT IN VIOLATION OF APPLICABLE LAND USE LAWS AND REGULATIONS. BEFORE SIGNING OR ACCEPTING THIS INSTRUMENT, THE PERSON ACQUIRING FEE TITLE TO THE PROPERTY SHOULD CHECK WITH THE APPROPRIATE CITY OR COUNTY PLANNING DEPARTMENT TO VERIFY THAT THE UNIT OF LAND BEING TRANSFERRED IS A LAWFULLY ESTABLISHED LOT OR PARCEL, AS DEFINED IN ORS 92.010 OR 215.010, TO VERIFY THE APPROVED USES OF THE LOT OR PARCEL, TO DETERMINE ANY LIMITS ON LAWSUITS AGAINST FARMING OR FOREST PRACTICES, AS DEFINED IN ORS 30.930, AND TO INQUIRE ABOUT THE RIGHTS OF NEIGHBORING PROPERTY OWNERS, IF ANY, UNDER ORS 195.300, 195.301 AND 195.305 TO 195.336 AND SECTIONS 5 TO 11, CHAPTER 424, OREGON LAWS 2007, SECTIONS 2 TO 9 AND 17, CHAPTER 855, OREGON LAWS 2009 AND SECTIONS 2 TO 7, CHAPTER 8, OREGON LAWS 2010.

Executed this 24 day of December, 2014
 Stafford Ranches, LLC, an Oregon limited liability company, Exchangor

Mark K. Stafford
 Mark K. Stafford, as manager of Stafford Ranches, LLC

Michael Stafford
 Michael Stafford, as manager of Stafford Ranches, LLC

Samuel J. Stafford
 Samuel J. Stafford, as manager of Stafford Ranches, LLC

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"DIXON" PARCELS HIGHLIGHTED
 IN YELLOW

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loop

Executed this 24 day of December, 2014

Milton Stafford
Milton Stafford

Executed this 24 day of December, 2014

Mark K. Stafford
Mark K. Stafford

Executed this 24 day of December, 2014

Michael Stafford
Michael Stafford

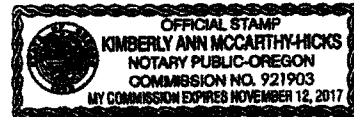
Executed this 24 day of December, 2014

Samuel J. Stafford
Samuel J. Stafford

State of Oregon, County of Crook) ss.

This instrument was acknowledged before me on this 24 day of December, 2014 by **Mark K. Stafford, Samuel J. Stafford, and Michael Stafford**, as managers of Stafford Ranches, LLC

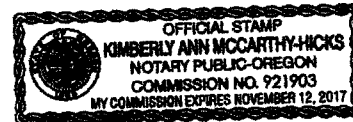
Kimberly Ann McCarthy-Hicks
Notary Public for the State of Oregon
My commission expires: 11-12-2017



State of Oregon, County of Crook) ss.

This instrument was acknowledged before me on this 24 day of December, 2014 by **Milton Stafford**

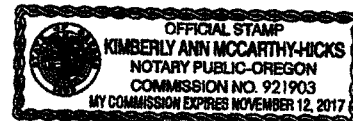
Kimberly Ann McCarthy-Hicks
Notary Public for the State of Oregon
My commission expires: 11-12-2017



State of Oregon, County of Crook) ss.

This instrument was acknowledged before me on this 24 day of December, 2014 by **Mark K. Stafford**

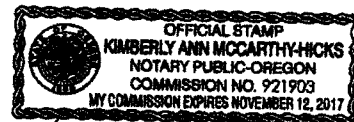
Kimberly Ann McCarthy-Hicks
Notary Public for the State of Oregon
My commission expires: 11-12-2017



State of Oregon, County of Crook) ss.

This instrument was acknowledged before me on this 24 day of December, 2014 by **Michael Stafford**

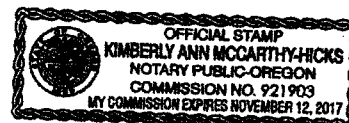
Kimberly Ann McCarthy-Hicks
Notary Public for the State of Oregon
My commission expires: 11-12-2017



State of Oregon, County of Crook) ss.

This instrument was acknowledged before me on this 24 day of December, 2014 by **Samuel J. Stafford**

Kimberly Ann McCarthy-Hicks
Notary Public for the State of Oregon
My commission expires: 11-12-2017



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EXHIBIT "A"

PARCEL "A"

Land in Harney County, Oregon, as follows:

In Twp. 37 S., R. 32½ E., W.M.:

Sec. 12: S½SE¼, and all that portion of the N½SE¼ lying Southerly of Highway 205.

Sec. 13: N½NE¼, E½NW¼.

Sec. 36: N½.

In Twp. 37 S., R. 32 ¾ E., W.M.:

Sec. 7: All that portion of Lot 4, SE¼SW¼, SW¼SE¼ lying Southerly of Highway 205.

Sec. 17: N½SW¼, and all that portion of the NW¼ lying southerly of Highway 205.

Sec. 18: Lot 1, NE¼NW¼, N½SE¼, S½NE¼ and all that portion of the N½NE¼ Lying Southerly of Highway 205.

In Twp. 37 S., R. 33 E., W.M.:

Sec. 35: SE¼SW¼.

In Twp. 38 S., R. 33 E., W.M.:

Sec. 13: NW¼SE¼.

Sec. 22: E½SE¼.

Sec. 24: NE¼NW¼.

Sec. 26: NE¼SE¼, SW¼NW¼.

Sec. 27: NE¼NE¼.

Sec. 36: S½.

In Twp. 38 S., R. 35 E., W.M.:

Sec. 15: Lots 3 and 4, W½SW¼.

Sec. 33: E½SW¼, SE¼.

Sec. 34: SW¼SW¼.

In Twp. 39 S., R. 33 E., W.M.:

Sec. 2: Lots 3 and 4, S½NW¼, SW¼.

Sec. 3: Lots 1 and 2, SE¼NE¼.

Sec. 18: Lots 2 and 3, NE¼SW¼, NW¼SE¼, S½SE¼.

Sec. 19: NE¼NE¼.

Sec. 20: SE¼NW¼, NW¼NW¼.

In Twp. 39 S., R. 34 E., W.M.:

Sec. 21: E½E½.

Sec. 22: NW¼.

Sec. 27: N½N½, SW¼NW¼, SE¼NE¼, S½SW¼, N½SE¼.

Sec. 33: S½NE¼.

Sec. 34: E½, NW¼.

In Twp. 39 S., R. 35 E., W.M.:

Sec. 3: Lot 4, SW¼NW¼, SW¼SW¼.

Sec. 4: Lots 1, 2 and 3, S½N½, S½.

Sec. 9: NW¼, E½, N½SW¼.

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- Sec. 11: NE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ S $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$.
 Sec. 13: S $\frac{1}{2}$ SE $\frac{1}{4}$.
 Sec. 14: W $\frac{1}{2}$.
 Sec. 15: S $\frac{1}{2}$ SE $\frac{1}{4}$.
 Sec. 22: NE $\frac{1}{4}$ NE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$,
 NW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$.
 Sec. 23: N $\frac{1}{2}$ NW $\frac{1}{4}$.
 Sec. 24: E $\frac{1}{2}$, E $\frac{1}{2}$ SW $\frac{1}{4}$, E $\frac{1}{2}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$ NW $\frac{1}{4}$.
 Sec. 25: N $\frac{1}{2}$, N $\frac{1}{2}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$, W $\frac{1}{2}$ W $\frac{1}{2}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ SW $\frac{1}{4}$,
 NE $\frac{1}{4}$ SE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$,
 SW $\frac{1}{4}$ SE $\frac{1}{4}$, W $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, S $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$.
 Sec. 26: E $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ W $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$, W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$,
 NE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$, N $\frac{1}{2}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$.
 Sec. 36: W $\frac{1}{2}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$,
 NW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$ SW $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$, SW $\frac{1}{4}$ NW $\frac{1}{4}$ NE $\frac{1}{4}$,
 SW $\frac{1}{4}$ SE $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, NW $\frac{1}{4}$ NW $\frac{1}{4}$ SE $\frac{1}{4}$, W $\frac{1}{2}$ W $\frac{1}{2}$ NE $\frac{1}{4}$ SE $\frac{1}{4}$,
 W $\frac{1}{2}$ W $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$, E $\frac{1}{2}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$.

In Twp. 39 S., R. 36 E., W.M.:

- Sec. 19: Lots 1, 2, 3 and 4, SE $\frac{1}{4}$ NW $\frac{1}{4}$, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$, E $\frac{1}{2}$ SW $\frac{1}{4}$.
 Sec. 29: SW $\frac{1}{4}$ SE $\frac{1}{4}$, W $\frac{1}{2}$ SW $\frac{1}{4}$.
 Sec. 30: Lot 1, NE $\frac{1}{4}$ NW $\frac{1}{4}$, NW $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ E $\frac{1}{2}$.
 Sec. 31: Lot 4, SE $\frac{1}{4}$ SW $\frac{1}{4}$.

In Twp. 39 S., R. 38 E., W.M.:

- Sec. 28: NE $\frac{1}{4}$ SW $\frac{1}{4}$.
 Sec. 31: SE $\frac{1}{4}$ SE $\frac{1}{4}$.
 Sec. 32: N $\frac{1}{2}$ NW $\frac{1}{4}$.
 Sec. 35: SW $\frac{1}{4}$ NW $\frac{1}{4}$.

In Twp. 40 S., R. 34 E., W.M.:

- Sec. 3: Lots 1, 2, 3 and 4, S $\frac{1}{2}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$, SAVE AND EXCEPT the
 SW $\frac{1}{4}$ SE $\frac{1}{4}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, and NW $\frac{1}{4}$ NE $\frac{1}{4}$ SW $\frac{1}{4}$.
 Sec. 4: Lots 1 and 2, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$.

In Twp. 40 S., R. 35 E., W.M.:

- Sec. 1: Lots 1, 2, 3 and 4, S $\frac{1}{2}$ NE $\frac{1}{4}$.

In Twp. 40 S., R. 36 E., W.M.:

- Sec. 6: Lots 3, 4 and 5, SE $\frac{1}{4}$ NW $\frac{1}{4}$.

Two parcels of land located in Sections 10, 13, 14, 15, 23, 24, 25 and 26 of Twp. 40 S., R. 37 E., W.M., Harney County, Oregon, more particularly described as follows:

Parcels 2 and 3 of Partition Plat No. 2009-03-238, recorded March 3, 2009, Instrument No. 20090388, Harney County Records.

In Twp. 40 S., R. 37 E., W.M.:

- Sec. 12: W $\frac{1}{2}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$.
 Sec. 13: E $\frac{1}{2}$ E $\frac{1}{2}$.
 Sec. 16: All.
 Sec. 24: E $\frac{1}{2}$ SE $\frac{1}{4}$.
 Sec. 25: NE $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SE $\frac{1}{4}$.

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- Sec. 28: NE $\frac{1}{4}$ NW $\frac{1}{4}$.
- Sec. 33: SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 36: E $\frac{1}{2}$, E $\frac{1}{2}$ W $\frac{1}{2}$.

In Twp. 40 S., R. 38 E., W.M.:

- Sec. 2: Lot 1.
- Sec. 3: SE $\frac{1}{4}$ NW $\frac{1}{4}$.
- Sec. 4: Lot 2, SE $\frac{1}{4}$ NW $\frac{1}{4}$.
- Sec. 5: SW $\frac{1}{4}$ NW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 8: SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 9: SW $\frac{1}{4}$ NE $\frac{1}{4}$.
- Sec. 11: NW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 13: SW $\frac{1}{4}$ SE $\frac{1}{4}$.
- Sec. 14: W $\frac{1}{2}$ W $\frac{1}{2}$.
- Sec. 16: SW $\frac{1}{4}$ SE $\frac{1}{4}$.
- Sec. 17: NW $\frac{1}{4}$ NE $\frac{1}{4}$.
- Sec. 18: SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 19: NW $\frac{1}{4}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$.
- Sec. 20: NW $\frac{1}{4}$ SW $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 22: SE $\frac{1}{4}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{4}$.
- Sec. 23: W $\frac{1}{2}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 24: NW $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 26: SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 27: SW $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 28: NE $\frac{1}{4}$ NE $\frac{1}{4}$.
- Sec. 29: S $\frac{1}{2}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ SE $\frac{1}{4}$, NE $\frac{1}{4}$ NW $\frac{1}{4}$.
- Sec. 31: SE $\frac{1}{4}$ SE $\frac{1}{4}$.
- Sec. 33: W $\frac{1}{2}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ SW $\frac{1}{4}$, SW $\frac{1}{4}$ SE $\frac{1}{4}$.

In Twp. 41 S., R. 37 E., W.M.:

- Sec. 16: SW $\frac{1}{4}$ SE $\frac{1}{4}$, SE $\frac{1}{4}$ SW $\frac{1}{4}$.
- Sec. 21: N $\frac{1}{2}$ NE $\frac{1}{4}$.
- Sec. 22: N $\frac{1}{2}$ N $\frac{1}{2}$.

PARCEL "B"

In Twp. 39 S., R. 35 E., W.M.:

- Sec. 3: Lots 1 and 2, S $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$.
- Sec. 10: N $\frac{1}{2}$ NE $\frac{1}{4}$, SE $\frac{1}{4}$ NE $\frac{1}{4}$.
- Sec. 11: SW $\frac{1}{4}$ SE $\frac{1}{4}$, N $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, N $\frac{1}{2}$ S $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$, E $\frac{1}{2}$ NW $\frac{1}{4}$, E $\frac{1}{2}$ W $\frac{1}{2}$ NW $\frac{1}{4}$,
W $\frac{1}{2}$ NW $\frac{1}{4}$ NW $\frac{1}{4}$, N $\frac{1}{2}$ NW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$, SW $\frac{1}{4}$ SW $\frac{1}{4}$ NW $\frac{1}{4}$.
- Sec. 13: S $\frac{1}{2}$ SW $\frac{1}{4}$.
- Sec. 14: E $\frac{1}{2}$.
- Sec. 23: NE $\frac{1}{4}$, EXCEPTING THEREFROM an irregular tract described as follows:

Beginning at the approximate North corner quarter of said Section, said point being an existing fence corner;
thence S. 01°29'20" E., 1338.5 feet, along an existing fence line to a fence corner and a 5/8" iron rod and the True Point of Beginning.
thence N. 89°30' W., 878.6 feet, along an existing fence line to a fence corner and a 5/8" iron rod;
thence S. 00°53'30" E., 2445.7 feet, along an existing fence line to a fence corner and a 5/8" iron rod;
thence N. 81°35'40" W., 117.1 feet, to a 5/8" iron rod;

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thence S. 06°41'00" W., 761.0 feet, to a 5/8" iron rod in an existing fence line;

thence S. 88°05'40" E., 1343.7 feet, to a 5/8" iron rod in an existing fence line;

thence N. 05°17'00" W., 3235.0 feet, along an existing fence line to the True Point of Beginning.

Sec. 24: W $\frac{1}{2}$ NW $\frac{1}{4}$, W $\frac{1}{2}$ E $\frac{1}{2}$ NW $\frac{1}{4}$, NE $\frac{1}{4}$ NE $\frac{1}{2}$ NW $\frac{1}{4}$.

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