



August 29, 2014

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

Subject: Al Osmin Groundwater Permit Application

Please find enclosed with this letter the Groundwater Permit Application submitted on behalf of Mr. Al Osmin. This groundwater application is for a property located within 5 miles of the City of Heppner's municipal drinking water rules. As such, please find the enclosed letter from the City which states their support of this groundwater permit application. Also included is a memorandum providing information regarding the presence of a fault in the vicinity of Mr. Osmin's well, which appears to act as a hydrogeologic barrier between his well and the City's drinking water wells.

Please do not hesitate to contact me at JMelady@gsiws.com with questions about the enclosed application.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Jason Melady", is written over the typed name and title.

Jason Melady, RG, CWRE
GSI Water Solutions, Inc.

Cc: Robyn Cook, RG – GSI Water Solutions, Inc.

Enclosures:
Permit Application
Check in the amount of \$1,900
Letter from the City of Heppner
Supplementary Information Memorandum

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SALEM, OR



August 25, 2014

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

Subject: City of Heppner Support for Osmin Groundwater Permit Application

The City of Heppner (City) is aware of a groundwater permit application being submitted to Oregon Water Resources Department (OWRD) by Mr. Albert Osmin for irrigation utilizing one of his existing irrigation wells (MORR 262/263). This well is located within a 5-mile radius of two of the City's municipal supply wells, Well 3 and Well 5. The City understands that conditions within Oregon Administrative Rule (OAR) 690-507-0090(3)(b)(C) does not permit new appropriation from the basalt aquifer utilized by the City's wells for irrigation unless it is documented that a barrier to groundwater movement separates the proposed well from municipal wells and there will be no interference with municipal wells.

The City has reviewed information prepared by Mr. Osmin's consultant, GSI Water Solutions, Inc., indicating the presence of a mapped fault between Mr. Osmin's well and the City's Well 3 and includes a summary of a OWRD memorandum dated March 5, 2009, which concludes that Mr. Osmin's well does not appear to produce groundwater from the same basalt aquifer as the City's Well 5.

Based on this information, the City is in agreement that it appears unlikely that Mr. Osmin's well will interfere with the City's water supply wells. Therefore, the City is in favor of the proposed groundwater Permit Application by Mr. Osmin.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kim Cutsforth", is written over a horizontal line.

Kim Cutsforth
City Manager
City of Heppner

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Cc: Al Osmin
Jason Melady, RG - GSI Water Solutions, Inc.

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SALEM, OR

THE CITY OF HEPPNER

111 NORTH MAIN STREET • P.O. BOX 756 • HEPPNER, OREGON 97838
PHONE: (541) 676-8618 • FAX: (541) 676-9650 • E-MAIL: heppner@centurytel.net • WEBSITE: www.heppner.net/city

G-1719

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.

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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

SECTION 1: APPLICANT INFORMATION AND SIGNATURE

Applicant Information

NAME ALBERT L OSMIN		PHONE (HM) (503) 676-9707	
PHONE (WK)	CELL	FAX	
ADDRESS RT 1 BOX 3366			
CITY HEPPNER	STATE OR	ZIP 97836	E-MAIL*

Organization Information

NAME		PHONE	FAX
ADDRESS			CELL
CITY	STATE	ZIP	E-MAIL*

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

AGENT / BUSINESS NAME GSI WATER SOLUTIONS, INC.		PHONE (503) 239-8799	FAX (503) 239-8940
ADDRESS 55 SW YAMHILL STREET, SUITE 300			CELL
CITY PORTLAND	STATE OR	ZIP 97204	E-MAIL*


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.)

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

Al Osmin
Print Name and title if applicable

8-6-14
Date RECEIVED BY OWRD

Applicant Signature

Print Name and title if applicable

Date

SEP 04 2014

For Department Use		
App. No. <u>G-17919</u>	Permit No. _____	Date _____
		SALEM, OR

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*).

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
Well 2	Balm Fork	140'	8 feet

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*).

Please see attached technical memorandum.

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SECTION 3: WELL DEVELOPMENT, CONTINUED

Total maximum rate requested: 0.66 cfs (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.

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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)
Well 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	MORR 262/263	<input type="checkbox"/>	8 in	0-40		0-40	2237.9 ft asl on 4/18/2014	Basalt	500	296	119.4
	<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"/>									
	<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

SALEM, OR

USE	PERIOD OF USE	ANNUAL VOLUME (ACRE-FEET)
Irrigation	April 1 to October 15	119.4 acre-feet

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: 39.8 Acres Supplemental: _____ Acres

List the Permit or Certificate number of the underlying primary water right(s): _____

Indicate the maximum total number of acre-feet you expect to use in an irrigation season: 119.4

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

SECTION 5: WATER MANAGEMENT**A. Diversion and Conveyance**

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

Pump (give horsepower and type): 30 Horsepower submersible

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 from well MORR 263/262 using a submersible pump and conveyed through approximately 12,000 feet of 5-inch and 4-inch PVC pipelines to the place of use for irrigation via center pivot.

B. Application Method

What equipment and method of application will be used? (e.g., drip, wheel line, high-pressure sprinkler)
Hand line, wheel line, and center pivot.

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.

This water is being requested to irrigate 39.8 acres of farm land that do not have a water right.

A flow meter will be installed to measure the amount of water appropriated from the well under the permit.

OSU Extension Service recommendations will be considered in planning irrigation methods, water application rates, and fertilizer application for the specific crops being cultivated.

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: _____ 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.

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): _____

USE OF STORED GROUND WATER	PERIOD OF USE

SECTION 8: PROJECT SCHEDULE

Date construction will begin: Construction is complete.

Date construction will be completed: Construction is complete.

Date beneficial water use will begin: Within 5 years of the date of permit issuance.

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	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*).

See attached technical memorandum for supplemental information.

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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

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Applicant: Albert First

Osmin Last

SEP 04 2014

Mailing Address: Route 1 Box 3366

SALEM, OR

Heppner City

OR State

97836 Zip

Daytime Phone: 503-676-9707

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:
3 S	26 E	2		700	EFU	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farmland
3S	26E	11		700	EFU	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farmland
3S	26E	12		700	EFU	<input checked="" type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farmland
3S	26E	14		700	EFU	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farmland
3S	26E	12		702	EFU	<input type="checkbox"/> Diverted	<input checked="" type="checkbox"/> Conveyed	<input checked="" type="checkbox"/> Used	Farmland

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

Morrow County

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: 0.66 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:

A permit application to use groundwater for irrigating 39.8 acres of farmland is being submitted to OWRD.

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): *MLZD Article 3 Section 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.

Name: Carla McHane, Planning Director
 Signature: *Carla McHane* Phone: 541 922 4624 Date: 9/2/2014
 Government Entity: Morrow 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: _____

Legal Descriptions

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1797

03S26

700

Legal Description for Assessment Purposes Only

TOWNSHIP 3S RANGE 26EWM

TRACT SECTIONS 2 AND 11

R 337

BEGINNING 5 CHAINS W OF THE NE CORNER

51-401

OF SECTION 11, T3S R26EWM;

403

THENCE N 40 DEG. W 25 CHAINS;

405

THENCE S 66 DEG. 30' W 7 CHAINS;

407

THENCE S 4 DEG. 30' W 7 CHAINS;

45-498

THENCE S 46 DEG. 30' W 4.8 CHAINS;

THENCE S 3 DEG. 10' W 27.34 CHAINS;

THENCE E 12.5 CHAINS;

THENCE N 20 CHAINS;

THENCE E TO THE POINT OF BEGINNING.

SE1/4SW1/4, SE1/4, S1/2NE1/4,

NE1/4NE1/4 SECTION 11

S1/2, S1/2N1/2, NW1/4NW1/4

SECTION 12

S1/2NW1/4, N1/2N1/2 SECTION 13

N1/2NE1/4, NE1/4NW1/4 SECTION 14

EXCEPTING: 6.81 ACRES IN ROADS

1251.81

OIL, GAS AND MINERAL LEASE M 18728

M 18729

ARRANTY DEED EASEMENT

M 19105

ASSIGN. OF OIL AND GAS LEASE

M 19677

OIL AND GAS LEASE

M 19904

WARRANTY DEED

M 10523

OIL AND GAS LEASE

M 21384

ASSIGN OIL & GAS LEASE

M 26415

ASSIGN OIL & GAS LEASE

M 27155

ASSIGN OIL & GAS LEASE

M 27357

ALSO: AC IN ROADS

6.81 ACRES

1258.62

EXC: PARCEL 701 (REF#8275) 9.10 ACRES DESCRIBED AS FOLLOWS:

SEC 12

W1/2SE1/4NW1/4 LYING N OF BALM FORK RD.

JV#93131 SEG BY QC M 39015 (OSMIN-OSMIN&OSMIN 8/31/92) 2/11/93 1249.52

EXC: AC IN ROADS

6.49 ACRES

1243.03

ALSO: FORMERLY TL103 (NO REF#) 140.00 ACRES DESC AS FOLLOWS:

T3S R26E WM

SEC 1: THE FOL DESC PARCEL LYING IN THE SW1/4 OF THE SW1/4;

BEG AT THE NW COR OF THE SW1/4 OF THE SW1/4;

TH IN A SELY DIR TO THE SE COR OF THE SW1/4 OF THE SW1/4;

TH W TO THE SW1/4 OF SD SEC 1;

TH N TO THE NW COR OF THE SW1/4 OF THE SW1/4,

SD PT BEING THE POB OF THIS DESC.

SEC 12: THE N1/2 OF THE NE1/4 AND THE NE1/4 OF THE NW1/4

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EXCEPTING THEREFROM THE FOL DESC PARCEL;
 BEG AT THE NE COR OF SD SEC 12, SD PT BEING THE
 TRUE POB OF THIS DESC;
 TH S A DIST OF 75' TAP ON THE E LI OF SD SEC 12;
 TH IN A NWLY DIR TAP ON THE N LI OF SD SEC 12 A DIST
 OF 300' W ON THE NE COR OF SD SEC 12;
 TH E A DIST OF 300' M/L TO THE TRUE POB.

JV# 93521 - COMB BY B&S (THOMPSON-OSMIN) M-39736	1/4/93	1383.03
(OSMIN-OSMIN) B&S M-41494	11/16/93	
REF: (OSMIN-COLUMBIA BASIN) Easement M-49733	12/19/96	
REF: (OSMIN-COLUMBIA BASIN) Easement M-49816	12/20/96	
REF: (OSMIN-OSMIN) Easement & Agreement M-58956	8/23/99	
Seg by Request for Financial Purposes for 1/1/01	8/28/01	
Also: Balm Fork Rd +6.49 Ac		1389.52
Exc: Tax Lot 702 (Ref# 9816) described as:		
A tract comm at the SE Cor of		
Sec 12, T3S R26E WM;		
th N 1320' to POB;		
th W 1320';		
th S 1320';		
th E 1320' to POB		
Exc: Balm Fork Rd -40.00 Ac		1349.52
		-5.27 Ac
		1344.25

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Ref # 9816 03S26 702

Formerly part of 3S26 700 (Ref # 1797)

T3S R26E WM

A tract comm at the SE Cor of

Sec 12, T3S R26E WM;

th N 1320' to POB;

th N 1320';

th W 1320';

th S 1320';

th E 1320' to POB

40.00

Exc: Balm Fork Rd

-1.22 Ac

38.78

Seg by Request for Financial Purposes for 1/1/01

8/28/01

(Osmin) Application to Exempt a MS from Title M-2001-1629 7/10/01

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Technical Memorandum

To: Mr. Albert Osmin
CC: Groundwater Permit Application - Oregon Water Resources Department
From: Jason Melady, RG, CWRE, GSI Water Solutions, Inc.
Robyn Cook, PG, GSI Water Solutions, Inc.
Date: August 5, 2014
Re: Osmin Groundwater Permit Application Supplementary Information

This technical memorandum provides supplemental information related to a groundwater permit application submitted on behalf of Albert Osmin. This groundwater permit application requests irrigation water for an additional 39.8 acres. The Osmin property is located within a 5-mile radius of two of the City of Heppner's (City) drinking water wells, specifically Wells 3 and 5. Oregon Administrative Rule (OAR) 690-507-0090(3)(b)(C) precludes new appropriation from the basalt aquifer utilized by the City of Heppner's wells within a five-mile radius, unless a hydrogeologic barrier separates the proposed well from the City's wells. This memorandum summarizes information from an Oregon Water Resources Department (OWRD) memorandum completed in March, 2009, and existing hydrogeologic and geologic information, which indicates a hydrogeologic barrier separates one of Mr. Osmin's wells (MORR 262/263) from the City of Heppner's water supply wells. Figure 1 shows the locations of the City of Heppner's wells and Mr. Osmin's wells. Well logs for Mr. Osmin's and the City's wells are included as an attachment.

Summary of Hydrogeologic Observations

Geologic and Hydrogeologic Setting

A review of geologic maps (Swanson, et. al., 1981, Gonthier, 1990, Madin and Geitgy, 2007) indicates the presence of a northwest trending fault located to the northeast of City Well 5 and Mr. Osmin's wells (MORR 248 and MORR 262/263), and southwest of Well 3 (Figure 1). This structure is located on the southeast extent of the Shutler Butte Fault Zone, which is part of a larger regional system of northwest trending faults. Localized faulting within this larger regional structural trend are observed to act as a negative hydrogeologic boundary (Tolan and Melady, 2011) in some locations. Based on groundwater level observations on either side of this geologic structure, this fault zone appears to act as a hydraulic boundary between MORR

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262/263 and the City's Well 3. Water level information, provided below, supports this conclusion.

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Well Construction and Water Level Information

In 2009, OWRD collected water level information and reviewed well logs for five irrigation wells located within a 5-mile radius of the City of Heppner's Well 3 and Well 5 (Norton, 2009). Mr. Osmin owns two of the wells that were investigated (MORR 248 and MORR 262/263). The purpose of the memorandum was to investigate whether the wells would qualify for new irrigation groundwater rights under the Umatilla Basin Program restrictions. According to OAR 690-507-0090(3)(b)(C), "Other uses [i.e., irrigation], may be permitted if it is documented that a barrier to groundwater movement separates a proposed well from municipal wells and there will be no interference with municipal wells."

Osmin Well MORR 248

The OWRD report indicated MORR 248 appears to develop water from the same aquifer as the City's Well 5. This conclusion is based on well depth, depth of water bearing zones, and water level data. Limited groundwater elevation data (included as Figure 2) does suggest that MORR 248 and City Well 5 likely produce water from the same portion of the basalt aquifer. OWRD does not conclude that MORR 248 is producing groundwater from the same aquifer as the City's Well 3, suggesting that Well 5 and Well 3 may produce water from different aquifers.

Osmin Well MORR 262/263

MORR 262/263 was originally drilled to a depth of 226 feet (MORR 262), and was deepened to 500 feet in 1979 (MORR 263). The well is cased and sealed to a depth of 40 feet (15 feet into basalt) and has maintained a groundwater level 15 feet (or more) lower than nearby Balm Fork Creek, indicating an adequate well seal and disconnection with nearby surface water. In addition, it does not appear that commingling is occurring at MORR 262/263 based on the observed stability of long-term groundwater levels (Figure 2).

The OWRD report concludes that MORR 262/263 "probably does not develop water from an aquifer developed by the City of Heppner Well 5, but might be developing water from the same aquifer as Well 3." This conclusion is also based on well depth, depth of water bearing zones, and water levels. Mr. Osmin's well is sealed and cased to 40 feet below ground surface (ft bgs), with an open borehole from 40 to 500 ft bgs. The City's Well 5 is cased to 607 ft bgs, which is deeper than the bottom of MORR 262/263. Water level elevations observed in MORR 262/263 are significantly higher than those observed in Well 5. The difference in open intervals and observed groundwater levels supports the conclusion that this well does not produce water from the same aquifer as Well 5. However, water level data for MORR 262/263 (which ranges in depth by approximately 100 feet) suggests that MORR 262/263 likely produces water from a different portion of the basalt aquifer than the City's Well 3.

Recent Investigations

GSI contacted OWRD staff on April 14, 2014 to discuss the presence of a mapped fault, the conclusions reached in the 2009 memorandum, and previous groundwater level observations at the Osmin and City wells in the context of obtaining a new groundwater permit for MORR 262/263 based on an apparent hydraulic barrier. As a follow-up to this discussion, OWRD staff

SEP 04 2014

SALEM, OR

visited Mr. Osmin's property on April 18, 2014 to collect additional water level information assess the current groundwater level differential between the Osmin and City wells. The groundwater elevation observed in MORR 262/263 is approximately 90 feet higher than the groundwater elevation most recently observed at the City's Well 3 and over 155 feet higher than the City's Well 5 groundwater elevation, indicating the presence of a barrier to groundwater flow and hydraulic equilibrium between the Osmin well and the City's wells. These groundwater elevations are included on Figure 2.

Conclusions

Based on groundwater elevation data and geologic information, it appears as though a geologic structure associated with the Shutler Butte Fault Zone is acting as a hydrogeologic boundary between Mr. Osmin's well (MORR 262/263) and the City of Heppner's Well 3. Well construction and observed water levels indicate that MORR 262/263 does not produce groundwater from the same aquifer as the City's Well 5, as suggested by OWRD's 2009 memorandum. **Therefore, it is our opinion that a barrier to groundwater movement separates Mr. Osmin's Well (MORR 262/263) from the City of Heppner's wells as described in OAR 690-507-0090(3)(b)(C) and use of MORR 262/263 under a new groundwater authorization would not interfere with the City's wells.** Additionally, well construction and groundwater elevation at Mr. Osmin's well (MORR 262/263) indicates hydraulic isolation with nearby surface water features (Balm Fork Creek) and groundwater trends do not suggest commingling over the open interval of the well.

References

- Gonthier, J.B., 1990, Geology, Structure, and Thickness of Hydrogeologic Units in Part of the Columbia Plateau, Oregon, USGS Water Resources Investigation Report 86-4001.
- Madin, I.P and Geitgey, R.P., 2007, Preliminary geologic map of the Umatilla Basin, Morrow and Umatilla Counties, Oregon: Oregon Department of Geology and Mineral Industries, Open-File Report O-07-15, scale 1:24,000.
- Norton, M., 2009, Basalt Wells Near Heppner: Water Resources Department Memo.
- Swanson, D.A., Anderson, J.L., Camp, V.E., Hooper, P.R., Taubeneck, W.H., and Wright, T.L., 1981, Reconnaissance geologic map of the Columbia River Basalt Group, northern Oregon and western Idaho: U.S. Geological Survey Open-File Report 81-797, scale 1:250,000.
- Tolan, T. and Melady, J., 2011, Geology Prognosis & Proposed Well Construction for the Glen Griffith Irrigation Water Supply Well (section 12, Township 3 North, Range 22 East), Supplemental Information included with Groundwater Application G17506, GSI Water Solutions, Inc.
- U.S. Army Corps of Engineers, 1983, Willow Creek Dam and Lake Seismological and Geological Review, Walla Walla District, p. 52 plus appendices and plates.

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SALEM, OR

Attachment

Well Logs

G-17919

NOTICE TO WATER WELL CONTRACTOR

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

RECEIVED WATER WELL REPORT

WATER RESOURCES DEPARTMENT

SALEM, OREGON 97310

within 30 days from the date of well completion

OCT 28 1977

STATE OF OREGON

(Please type or print)

WATER RESOURCES DEPT. SALEM, OREGON

MARR 263

State Well No. 35/210E-12db

State Permit No. G-8933

(1) OWNER:

Name A. L. Quinn
Address Rt 1
Heppner, Oregon 97836

(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
8" Diam. from 0 ft. to 40 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.
Ball-pit test 350 gal./min. with 14 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 40 ft.
Diameter of well bore to bottom of seal 11 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 9 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.

(10) LOCATION OF WELL:

County Morrow Driller's well number
NW 1/4 & E 1/4 Section 12 T. 38. R. 26 E. W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 90 ft.
Static level 25 ft. below land surface. Date 10-19-77
Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 8"
Depth drilled 226 ft. Depth of completed well 226 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
<u>Topsoil</u>	0	21	
<u>Clayton & gravel</u>	21	25	
<u>Basalt, black</u>	25	90	
<u>Rock, black & green claystone</u>	90	226	W.B.

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SALEM, OR

Work started 10-18 1977 Completed 10-19 1977
Date well drilling machine moved off of well 10-19 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 Van Swell Date 10-20, 1977
(Drilling Machine Operator)
Drilling Machine Operator's License No. 1027

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 10-20, 1977

G77919

NOTICE TO WATER WELL CONTRACTOR

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

WATER WELL REPORT

WATER RESOURCES DEPARTMENT
SALEM, OREGON 97310
within 30 days from the date of well completion.

RECEIVED

STATE OF OREGON
(Please type or print)

MORR 262

State Well No. 35/26E-12db

State Permit No. _____

APR 9 1979

(Do not write above this line)

WATER RESOURCES DEPT

(1) OWNER: SALEM, OREGON

Name A. L. Damin
Address Rt 1
Leppner, Oregon 97836

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):

Rotary Driven Domestic Industrial Municipal
Cable Jetted Irrigation Test Well Other
Dug Bored

(5) CASING INSTALLED: Threaded Welded

None 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?

_____ gal./min. with _____ ft. drawdown after _____ hrs.

AIR TEST #00 " 444 " 1 "
300 gal./min. with 444 ft. drawdown after 1 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
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.

(10) LOCATION OF WELL:

County Morrow Driller's well number _____
NW 1/4 SE 1/4 Section 12 T. 32. R. 26 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 56 ft. below land surface. Date 3-26-79
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG: Diameter of well below casing 8"

Depth drilled 274 ft. Depth of completed well 500 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, black/green claystone	226	278	W.B.
Basalt, black	278	306	
Rock, brown, soft	306	316	
Basalt, black	316	428	
Basalt, gray	428	444	
Basalt, brown/green claystone	444	459	
Basalt, black	459	475	
Rock, red/green claystone	475	496	W.B.
Basalt, black	496	500	

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SEP 04 2014

SALEM, OR

Work started 3-26 19 79 Completed 3-28 19 79

Date well drilling machine moved off of well 3-28 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] Ronald Culbome Date 3-28, 19 79
(Drilling Machine Operator)

Drilling Machine Operator's License No. 1210

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 SPIFFIN (Type or print)
(Person, firm or corporation)

Address 902 HERMISTON AVE HERMISTON ORE

[Signed] Troy Spiffin
(Water Well Contractor)

Contractor's License No. 62 Date 3-28, 19 79

NOTICE TO WATER WELL CONTRACTOR

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

RECEIVED

WATER WELL REPORT

STATE ENGINEER, SALEM, OREGON 97310

within 30 days from the date of well completion.

SEP 26 1975

(Please type or print)

(Do not write above this line)

MARK 248

State Well No. 35/26E-2

State Permit No.

G-7262

WATER RESOURCES DEPT.

(1) OWNER: SALEM, OREGON

Name Al Osmond
Address Rt-1 Depue Oregon

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):

Rotary Driven Domestic Industrial Municipal
Cable Jetted Dug Bored Irrigation Test Well Other

CASING INSTALLED: Threaded Welded
10" Diam. from 1 ft. to 23 ft. Gage 1250
" 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: 200 gal./min. with ft. drawdown after 16 hrs.
Pump test pipe at 160'
Ball test gal./min. with ft. drawdown after hrs.
Artesian flow g.p.m.
Temperature of water 60 Depth artesian flow encountered ft.

(9) CONSTRUCTION: Well seal—Material used Cement
Well sealed from land surface to 20 ft.
Diameter of well bore to bottom of seal 13 1/4 in.
Diameter of well bore below seal 8 in.
Number of sacks of cement used in well seal 12 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 Flugs 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 Polk Driller's well number 100
SE 1/4 SE 1/4 Section 2 T. 35 R. 26E W.M.
Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 120 ft.
Static level 20 ft. below land surface. Date 7/29/75
Artesian pressure lbs. per square inch. Date

(12) WELL LOG: Diameter of well below casing 8

Depth drilled 223 ft. Depth of completed well 220 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
Sand & Gravel	0	15	
Rock Black (Hard)	15	25	
Rock Black (Med)	25	115	
Rock Black (Soft)	115	135	50
Basalt Grey	135	150	
Basalt Black	150	160	50
Volcanic Rock (Soft)	160	200	
Conglomerate (Black)	200	215	20
Rock Bin	215	220	20

Work started 7/25 1975 Completed 7/29 1975
Date well drilling machine moved off of well 7/30 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] W. E. Engstrom Date 7/30, 1975
(Drilling Machine Operator)
Drilling Machine Operator's License No. 539

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 W. E. Engstrom (Person, firm or corporation) (Type or print)
Address Box 349 Junction Ave
[Signed] W. E. Engstrom (Water Well Contractor)
Contractor's License No. 487 Date 7/30, 1975

G-17919

STATE ENGINEER
Salem, Oregon

MARK 189

Well Record

STATE WELL NO. 2/27-31R
COUNTY Morrow
APPLICATION NO. G-1089

OWNER: City of Heppner

MAILING ADDRESS:

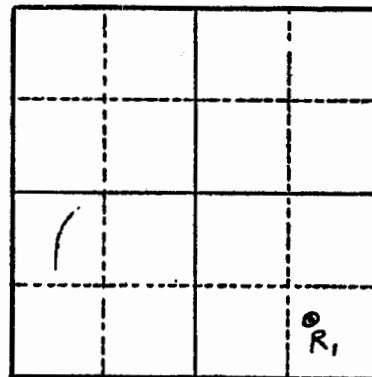
LOCATION OF WELL: Owner's No. 3

CITY AND STATE:

Heppner, Oregon

SE 1/4 SE 1/4 Sec. 31 T. 2 N. S., R. 27 E., W.M.

Bearing and distance from section or subdivision corner



Altitude at well

TYPE OF WELL: drilled Date Constructed 5/27/52

Depth drilled 159 ft. Depth cased 36 ft. 4 in.

Section 31

CASING RECORD: 10 inch steel casing set from 0 to 36 ft. 4 inches

FINISH:

AQUIFERS: Basalt porous zones between 104 to 133
133 to 141
146 to 159

WATER LEVEL: 25 ft. below land surface (rpt. 8/5/52)

PUMPING EQUIPMENT: Type Pearless turbine 6 inch H.P. 20
Capacity 350 G.P.M.

WELL TESTS:

Drawdown 100 ft. after _____ hours _____ pumping 238 G.P.M.

Drawdown 129 ft. after _____ hours _____ pumping 350 G.P.M.

USE OF WATER municipal Temp. _____ °F. _____, 19____

SOURCE OF INFORMATION Victor Groshens - City Superintendent

DRILLER or DIGGER A. A. Durand

ADDITIONAL DATA:

Log Water Level Measurements _____ Chemical Analysis _____ Aquifer Test _____

REMARKS:

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SEP 04 2014

SALEM, OR

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STATE OF OREGON
WATER WELL REPORT
(as required by ORS 537.705)

MORR 245

JAN 9 1985

per WWC: should be 35. can 4/9/85
Location should be 265.

3 3/36E-2ba

WATER RESOURCES DEPARTMENT
SALEM, OREGON

(for official use only)

(1) OWNER:

Name City of Heppner
Address P.O. Box 756
City Heppner State Ore. 97836

(2) TYPE OF WORK (check):

New Well Deepening Reconditioning Abandon

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL: (4) PROPOSED USE (check):

Rotary Air Driven Domestic Industrial Municipal
Rotary Mud Dug Irrigation Thermal: Withdrawal ReInjection
Other: Piezometric Grounding Test
Cable Bored

(5) CASING INSTALLED:

Steel Plastic
Threaded Welded
10" Diam. from +2 ft. to 607 ft. Gauge 307

LINER INSTALLED:

Steel Plastic
Threaded Welded
" Diam. from ft. to ft. Gauge

(6) PERFORATIONS:

Perforated? Yes No
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? Contractor
d: 164 gal./min. with 325 ft. drawdown after 48 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 70* Depth artesian flow encountered ft.

(9) CONSTRUCTION:

Special standards: Yes No
Well seal—Material used Cement Grout
Well sealed from land surface to 27 ft.
Diameter of well bore to bottom of seal 17 in.
Diameter of well bore below seal 17 in. to 40 ft.
Amount of sealing material 29 sacks pounds
How was cement grout placed? Pressure Grouted

Was pump installed? yes Type subm. HP 30 Depth 600 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 by legal description:

County Morrow NE 1/4 NW 1/4 of Section 2 of
Township 35S Range 36E WM.
(Township is North or South) (Range is East or West)
Tax Lot _____ Lot _____ Block _____ Subdivision _____
MAILING ADDRESS OF WELL (or nearest address) unknown

(11) WATER LEVEL OF COMPLETED WELL:

Depth at which water was first found 35k 205 ft.
Static level 84 ft. ft. below land surface. Date 10-26-84
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"
Depth drilled 1,082 ft. Depth of completed well 1,082 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
Clay & Broken Basalt	0	5	
Mild Grey Basalt	5	170	
Harder Grey Basalt	170	268	
Hard Grey Basalt	268	312	
Mild Water-Bear. Basalt	312	330	
Harder Grey Basalt	330	351	
Mild Water-Bear. Basalt	351	458	
W/Green Claystones-Picked up water @ 351-372-383-434			
Hard Basalt	458	470	
Mild Water-Bear. Basalt	470	492	
Hard Basalt	492	500	80'
Mild Basalt	500	575	
Hard Basalt	575	618	
Mild Basalt W/Green Claystone	618	630	
Hard Basalt	630	643	
Broken Basalt	643	650	
Hard Basalt	650	700	80'
Hard Basalt	700	735	
Green Claystone	735	750	
Hard Basalt	750	780	

Date work started 2-16-84 /completed 12-1-84
Date well drilling machine moved off of well 12-1 19 84

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] [Signature] Date 12-1, 19 84

(bonded) Water Well Constructor Certification:

Bond 630130021279 Issued by: U.S. Fidelity & Guaranty
(number) (Surety Company Name)

On behalf of Orvail Buckner Well Drilling, Inc.
(type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief:

(Signed) [Signature]
(Water Well Constructor)

(Dated) 1-4-85

NOTICE TO WATER WELL CONSTRUCTOR
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.

8P*46866-690

G-17919

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

RECEIVED

JAN 9 1985
PLEASE TYPE OR PRINT IN INK
WATER RESOURCES DEPT
SALEM, OREGON

Per WWC: *Shall*
Louder
see 35 + 26E
4/9/85

3 *36E-2ba*

(for official use only)

(1) OWNER:

Name City of Heppner
Address P.O. Box 756
City Heppner State Ore. 97836

(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 Domestic Industrial Municipal
Rotary Mud Dug Irrigation Withdrawal ReInjection
Cable Bored Other: Piezometric Grounding Test

(4) PROPOSED USE (check):

(5) CASING INSTALLED: Steel Plastic
Threaded Welded
10" Diam. from +2 ft. to 607 ft. Gauge .307

LINER INSTALLED: Steel Plastic
Threaded Welded
" Diam. from ft. to ft. Gauge

(6) PERFORATIONS: Perforated? Yes No
Size of perforations in by in.

(7) SCREENS: Well screen installed? Yes No
Manufacturer's Name

(8) WELL TESTS: Drawdown is amount water level is lowered below static level

Was a pump test made? Yes No If yes, by whom? Contractor
Flow: 164 gal./min. with 325 ft. drawdown after 48 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 70* Depth artesian flow encountered ft.

(9) CONSTRUCTION: Special standards: Yes No

Well seal—Material used Cement Grout
Well sealed from land surface to 27 ft.
Diameter of well bore to bottom of seal 17 in.
Diameter of well bore below seal 17 in. to 40 ft.
Amount of sealing material _____ sacks pounds
How was cement grout placed? Pressure Grouted
Was pump installed? Yes Type Subm. HP 30 Depth 600 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 by legal description:

County Morrow NE 1/4 NW 1/4 of Section 2 of Township 35S Range 36E WM.
(Township is North or South) (Range is East or West)
Tax Lot _____ Lot _____ Block _____ Subdivision _____
MAILING ADDRESS OF WELL (or nearest address) Unknown

(11) WATER LEVEL OF COMPLETED WELL:

Depth at which water was first found 351 205 ft.
Static level 84 ft. below land surface. Date 10-26-84
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 8"
Depth drilled 1082 ft. Depth of completed well 1,082 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
Greenish Hard Basalt	780	843	
Broken Water-Bear. Basalt	843	848	92'
Basalt	848	945	
Basalt/W Blue-Clay Bonded Seams	945	950	
Black Basalt	950	1040	
Dk. Green Basalt	1040	1065	
Red/Brn Claystone, Soft (John Day Formation)	1065	1082	

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SEP 04 2014

SALEM, OR

Date work started 2-16-84 /completed 12-1-84
Date well drilling machine moved off of well 12-1 19 84

(unbonded) Water Well Constructor Certification (if applicable):

This well was constructed under my direct supervision. Materials used and information reported above are true to my best knowledge and belief.

[Signed] [Signature] Date 12-1-84, 19 _____

(bonded) Water Well Constructor Certification:

Bond 630130021279 Issued by: U.S. Fidelity & Guaranty
(number) (Surety Company Name)

On behalf of Orvail Buckner Well Drilling, Inc.
(Type or print name of Water Well Constructor)

This well was drilled under my jurisdiction and this report is true to the best of my knowledge and belief.

(Signed) [Signature]
(Water Well Constructor)

(Dated) 1-4-85

NOTICE TO WATER WELL CONSTRUCTOR
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*46866-690

G-17919



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AUG 28 2014
SALEM, OR

August 25, 2014

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

Subject: City of Heppner Support for Osmin Groundwater Permit Application

The City of Heppner (City) is aware of a groundwater permit application being submitted to Oregon Water Resources Department (OWRD) by Mr. Albert Osmin for irrigation utilizing one of his existing irrigation wells (MORR 262/263). This well is located within a 5-mile radius of two of the City's municipal supply wells, Well 3 and Well 5. The City understands that conditions within Oregon Administrative Rule (OAR) 690-507-0090(3)(b)(C) does not permit new appropriation from the basalt aquifer utilized by the City's wells for irrigation unless it is documented that a barrier to groundwater movement separates the proposed well from municipal wells and there will be no interference with municipal wells.

The City has reviewed information prepared by Mr. Osmin's consultant, GSI Water Solutions, Inc., indicating the presence of a mapped fault between Mr. Osmin's well and the City's Well 3 and includes a summary of a OWRD memorandum dated March 5, 2009, which concludes that Mr. Osmin's well does not appear to produce groundwater from the same basalt aquifer as the City's Well 5.

Based on this information, the City is in agreement that it appears unlikely that Mr. Osmin's well will interfere with the City's water supply wells. Therefore, the City is in favor of the proposed groundwater Permit Application by Mr. Osmin.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Kim Cutsforth", is written over a horizontal line.

Kim Cutsforth
City Manager
City of Heppner

Cc: Al Osmin
Jason Melady, RG - GSI Water Solutions, Inc.

6-17-19

THE CITY OF HEPPNER

111 NORTH MAIN STREET • P.O. BOX 756 • HEPPNER, OREGON 97836
PHONE: (541) 876-9618 • FAX: (541) 676-9650 • E-MAIL: heppner@centurytel.net • WEBSITE: www.heppner.net/city