



State of Oregon
 Water Resources Department
 725 Summer Street NE, Suite A
 Salem, Oregon 97301-1266
 (503) 986-0900

Application for Groundwater Registration Modification

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Part 1 of 5 – Minimum Requirements Checklist

This Groundwater Registration Modification application will be returned if Parts 1 through 4 and all required attachments are not completed and included.
 For questions, please call (503) 986-0900, and ask for Transfer Section.

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Check all included with this application (N/A = Not Applicable)

- Part 1 – Completed Minimum Requirements Checklist.
- Part 2 – Completed Application Map Checklist.
- Part 3 – Completed Applicant Information and Signature.
- Part 4 – Completed Groundwater Registration Modification Application – Groundwater Registration Information. (Only one Groundwater registration per application, unless the Groundwater registrations to be modified are layered).
- Completed Groundwater Registration Modification Application Map (Does not have to be prepared by a Certified Water Right Examiner).
- Groundwater registration modification fees – Amount enclosed: \$ **1,250**. (\$875.00 for a place of use change only; \$1,250.00 for any other change or combination).
- Attachments:**
- N/A Request for Assignment Form and statutory fee. This form needs to be completed if the applicant owns the land to which the registration is appurtenant and is **not** the registration certificate holder of record. The Request for Assignment Form is available at <https://www.oregon.gov/OWRD/Forms/Pages/default.aspx>.
 Assignment is not needed for any person or entity who can demonstrate authorization to request recognition of a modification (e.g. legal representative, power of attorney, agent, etc.) **or** the applicant is named on the certificate of registration, or has been assigned to the certificate of registration.
- N/A Oregon Water Resources Department’s Land Use Information Form with approval and signature (or signed land use form receipt stub) from each local land use authority in which water is to be diverted, conveyed, and/or used. Not required if water is to be diverted, conveyed, and/or used only on federal lands or if **all** of the following apply: a) a change in place of use only, b) no structural changes, c) the use of water is for irrigation only, and d) the use is located within an irrigation district or an exclusive farm use zone.
- N/A Water Well Report/Well Log for changes in point(s) of appropriation (well(s)) or additional point(s) of appropriation.

(For Staff Use Only)

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

___ Application fee not enclosed/insufficient	___ Map not included or incomplete
___ Land Use Form not enclosed or incomplete	___ Assignment Form and fee not enclosed/insufficient
___ Additional signature(s) required	___ Part ____ is incomplete

Other/Explanation _____

Staff: _____ 503-986-0 _____ Date: / /

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Part 2 of 4 – Groundwater Registration Modification Map Checklist

Your Groundwater Registration Modification application will be returned if any of the map requirements listed below are not met.

Please be sure that the map you submit includes all the items listed below and meets the requirements of OAR 690-380-3100, however, the map does not have to be prepared by a Certified Water Right Examiner. Check all boxes that apply.

- Permanent quality printed with dark ink on good quality paper.
- The size of the map can be 8½ x 11 inches, 8½ x 14 inches, 11 x 17 inches, or up to 30 x 30 inches. For 30 x 30 inch maps, one extra copy is required.
- A north arrow, a legend, and scale.
- The scale of the map must be: 1 inch = 400 feet, 1 inch = 1,320 feet, the scale of the county assessor map if the scale is not smaller than 1 inch = 1,320 feet, or a scale that has been pre-approved by the Department.
- Township, Range, Section, ¼ ¼, DLC, Government Lot, and other recognized public land survey lines.
- Tax lot boundaries (property lines) are required. Tax lot numbers are recommended.
- Major physical features including rivers and creeks showing direction of flow, lakes and reservoirs, roads and railroads.
- Major water delivery system features from the point(s) of appropriation such as main pipelines, canals, and ditches.
- Existing place of use that includes hachuring, priority date, and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions. If less than the entirety of the registration is being changed, a separate hachuring is needed for the portion of the registration left unchanged.
- N/A If you are proposing a modification in place of use, show the proposed place of use with hachuring including priority date and use including number of acres in each quarter-quarter section, government lot, or in each quarter-quarter section as projected within government lots, donation land claims, or other recognized public land survey subdivisions.
- Existing point(s) of appropriation with distance and bearing or coordinates from a recognized survey corner.
- N/A If you are proposing a modification in point(s) of appropriation, show the proposed location and label it clearly with distance and bearing or coordinates. If GPS coordinates are used, latitude-longitude coordinates may be expressed as either degrees-minutes-seconds with at least one digit after the decimal (example – 42°32'15.5") or degrees-decimal with five or more digits after the decimal (example – 42.53764°).

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Part 3 of 4 – Applicant Information and Signature

Applicant Information

APPLICANT/BUSINESS NAME Jeremy Pratt			PHONE NO. 503-805-7523	ADDITIONAL CONTACT NO. None
ADDRESS 3439 NE Sandy Boulevard, # 356			FAX NO. None	
CITY Portland	STATE OR	ZIP 97232	E-MAIL j.pratt@nectarpdx.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

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

APPLICANT/BUSINESS NAME Evan Malepsy/Rogue Civil LLC			PHONE NO. 541-621-2868	ADDITIONAL CONTACT NO. None
ADDRESS 52 Pineridge Lane			FAX NO. None	
CITY Eagle Point	STATE OR	ZIP 97524	E-MAIL emalepsy@roguecivil.com	
BY PROVIDING AN E-MAIL ADDRESS, CONSENT IS GIVEN TO RECEIVE ALL CORRESPONDENCE FROM THE DEPARTMENT ELECTRONICALLY. COPIES OF THE FINAL ORDER DOCUMENTS WILL ALSO BE MAILED.				

Explain in your own words what you propose to accomplish with this modification; and why:
 We wish to change the point of appropriation and place of use for GR-3387. We are relatively new owners of the properties and have decided to irrigate a different area than GR-3387. In addition, a new point of appropriation closer to the new place of use will allow more efficient delivery of water.
 If you need additional space, continue on a separate piece of paper and attach to the application as "Attachment 1".

Check this box if this project is fully or partially funded by the American Recovery and Reinvestment Act. (Federal stimulus dollars)

(Check one box)

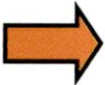
- By signing this application, I (we) understand that, upon receipt of the draft preliminary determination and prior to Department approval of the Groundwater modification, I (we) will be required to provide landownership information and evidence that I am authorized to pursue the modification as identified in OAR 690-382-0400(16)(a);
OR
- I (we) affirm the applicant is a municipality as defined in ORS 540.510(3)(b) and that the right is in the name of the municipality or a predecessor; **OR**
- I (we) affirm that the applicant is an entity with the authority to condemn property and is acquiring the property to which the Groundwater registration proposed for modification is appurtenant by condemnation and have attached supporting documentation.

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I understand that prior to Department approval of the groundwater registration modification, I may be required to submit payment to the Department for publication of a notice in a newspaper with general circulation in the area where the groundwater registration is located, once per week for two consecutive weeks. If more than one qualifying newspaper is available, I suggest publishing the notice in the following paper: Medford Mail Tribune.

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

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[Signature]
Applicant Signature

Jeremy Pratt
Print Name (and Title if applicable)

7/3/21
Date

Applicant Signature

Print Name (and Title if applicable)

Date

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Is the applicant the sole owner of the land on which the Groundwater registration modification or portion thereof, is located? Yes No *If NO, include signatures of all deeded landowners (and mailing and/or e-mail addresses if different than the applicant's) or attach affidavits of consent (and mailing and/or e-mail addresses) from all landowners or individuals/entities to which the Groundwater registration has been conveyed.*

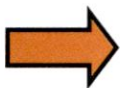
Check the appropriate box, if applicable:

Check here if the Groundwater registration proposed for modification is or will be located within or served by an irrigation or other water district.

IRRIGATION DISTRICT NAME NA	ADDRESS	
CITY	STATE	ZIP

Check here if water for the Groundwater registration is supplied under a water service agreement or other contract with a federal agency or other entity.

ENTITY NAME NA	ADDRESS	
CITY	STATE	ZIP



To meet State Land Use Consistency Requirements, you must list all local governments (each county, city, municipal corporation, or tribal government) within whose jurisdiction water will be diverted, conveyed or used.

ENTITY NAME Jackson County	ADDRESS 10 South Oakdale	
CITY Medford	STATE OR	ZIP 97501

ENTITY NAME	ADDRESS	
CITY	STATE	ZIP

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Part 4 of 4 – Groundwater Registration Information

Please use a separate Part 4 for each registration being modified. See instructions on page 5, to copy and paste additional Part 4s, or to add additional rows to tables within the form.

Table 1. Location of Authorized and Proposed Point(s) of Appropriation (POA)

(Note: If the POA name is not specified in the registration, assign it a name or number here.)

POA Name or Number	Is this POA Authorized by the registration or is it Proposed?	OWRD Well Log ID# (or Well ID Tag # L-___)	Twp	Rng	Sec	¼ ¼		Tax Lot, DLC or Gov't Lot	Measured Distances (from a recognized survey corner)
POA 1	<input checked="" type="checkbox"/> Authorized <input type="checkbox"/> Proposed	NONE	36 S	3 W	27	SE	NE	200	900' S and 1700' W from NE corner DLC 38
POA 2	<input type="checkbox"/> Authorized <input checked="" type="checkbox"/> Proposed	JACK 9123	36 S	3 W	26	SW	NW	200	998' S and 960' W from NE corner DLC 38
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed								
	<input type="checkbox"/> Authorized <input type="checkbox"/> Proposed								

Check all type(s) of modifications(s) proposed below (modification "CODES" are provided in parentheses):

- | | |
|--|---|
| <input checked="" type="checkbox"/> Place of Use (POU) | <input checked="" type="checkbox"/> Point of Appropriation (well) (POA) |
| <input type="checkbox"/> Character of Use (USE) | <input type="checkbox"/> Additional Point of Appropriation (APOA) |

Will all of the proposed changes affect the entire Groundwater registration?

- Yes Complete only the proposed ("to" lands) section of Table 2 on the next page. Use the "CODES" listed above to describe the proposed changes.
- No Complete all of Table 2 to describe the portion of the registration to be changed.

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Please use and attach additional pages of Table 2 as needed.
See page 5 for instructions.

Do you have questions about how to fill-out the tables?
Contact the Department at 503-986-0900 and ask for Transfer

Table 2. Description of Modifications to Registration GR-3387 (Certificate # GR-3387)

List only the part of the registration that will be modified. For the acreage in each 1/4 1/4, list the modification proposed. If more than one modification, specify the acreage associated with each modification. If more than one POA, specify the acreage associated with each POA.

AUTHORIZED (the "from" or "off" lands)										PROPOSED (the "to" or "on" lands)												
The listing that appears in the registration BEFORE PROPOSED CHANGES										The listing as it would appear AFTER PROPOSED CHANGES												
List only that part or portion of the groundwater registration that will be changed.										are made.												
Twp	Rng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	Type of USE listed on Certificate	POA(s) (name or number from Table 1)	Priority Date	Proposed Changes (see "CODES" from previous page)	Twp	Rng	Sec	1/4	1/4	Tax Lot	Gvt Lot or DLC	Acres	New Type of USE	POA(s) to be used (from Table 1)	Priority Date
EXAMPLE																						
36 S	3 W	27	SE	NE	200	DLC 38	12.5	Irrigation	POA 1	8/10/1953	POU & POA	36 S	3 W	26	SW	NW	200	DLC 38	2.2	Irrigation	POA 2	8/10/1953
											POU & POA	36 S	3 W	26	SE	NW	300	GL 7	6.8	Irrigation	POA 2	8/10/1953
											POU & POA	36 S	3 W	26	SW	NE	300	GL 6	0.8	Irrigation	POA 2	8/10/1953
											POU & POA	36 S	3 W	26	NW	SE	500		0.1	Irrigation	POA 2	8/10/1953
											POU & POA	36 S	3 W	26	NE	SW	500		0.5	Irrigation	POA 2	8/10/1953
											POU & POA	36 S	3 W	26	NW	SW	201	DLC 38	2.1	Irrigation	POA 2	8/10/1953
36 S	3 W	27	SE	NE	200	DLC 38	3.5	Irrigation	POA 1	8/10/1953	POA	36 S	3 W	27	SE	NE	200	DLC 38	3.5	Irrigation	POA 2	8/10/1953
TOTAL ACRES										16.0	TOTAL ACRES										16.0	

Additional remarks: **POA 1 was located in the field and matches the location shown on the GR-3387 map. The coordinates for POA 1 from the claim do not match the field location or the claim map.**

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Groundwater Registration # GR-3387 (Certificate # GR-3387)

For a modification in place of use or character of use:

Are there other water right certificates, water use permits, or Groundwater registrations associated with the “from” or “to” lands? Yes No

If YES, list the other certificate, water use permit, or other Groundwater registration numbers:
CERTIFICATE 28325



Pursuant to OAR 690-382-0200, any “layered” water use, such as an irrigation right that is supplemental to a primary irrigation right proposed for transfer, must be concurrently transferred with the registration or be cancelled. Any change to a water right must be filed separately in a transfer application. Any change to a water use permit must be filed separately with a permit amendment. Any modification to a Groundwater registration on the “to” lands must be filed separately with a Groundwater registration modification.

For modifications in point(s) of appropriation (well(s) or additional point(s) of appropriation:

- Well log(s) are attached for each well that are clearly labeled and associated with the corresponding well(s) in Table 1 above and on the accompanying application map.
(Tip: You may search for well logs on the Department’s web page at:
http://apps.wrd.state.or.us/apps/gw/well_log/)

AND/OR

- Describe the construction of the authorized and proposed well(s) in Table 3 for any wells that do not have a well log. For *proposed wells not yet constructed or built*, provide “a best estimate” for each requested information element in the table. The Department recommends you consult a licensed well driller, geologist, or certified water right examiner to assist with assembling the information necessary to complete Table 3.

Table 3. Construction of Point(s) of Appropriation

Any well(s) in this listing must be clearly tied to corresponding well(s) described in Table 1 and shown on the accompanying application map. Failure to provide adequate information is likely to delay the processing of your modification application until it is received. The information is necessary for the department to assess whether the proposed well(s) will access the same source aquifer as the authorized point(s) of appropriation (POA). The Department is prohibited by law from approving POA changes that do not access the same source aquifer.

Proposed or Authorized POA Name or Number	Is well already built? (Yes or No)	If an existing well, OWRD Well ID Tag No. L-___	Total well depth	Casing Diameter	Casing Intervals (feet)	Seal depth(s) (intervals)	Perforated or screened intervals (in feet)	Static water level of completed well (in feet)	Source aquifer (sand, gravel, basalt, etc.)	Well - specific rate (cfs or gpm). If less than full rate of water right
POA 1	Yes	NONE	12'	None	None	None	None	6'	Gravel	120 gpm
POA 2	Yes	JACK 9123	138'	6"	0'-136'	0'-68'	70'-136'	20'	Gravel	130 gpm

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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.

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

State Well No. 365/3W-27

State Permit No.

(1) OWNER:

Name Louis Burns Address 8554 Old Stage Rd., Gold Hill, Or.

(2) TYPE OF WORK (check):

New Well [x] Deepening [] Reconditioning [] Abandon []

If abandonment, describe material and procedure in Item 12.

(3) TYPE OF WELL:

Rotary [x] Cable [] Driven [] Jetted [] Bored []

(4) PROPOSED USE (check):

Domestic [] Industrial [] Municipal [] Irrigation [x] Test Well [] Other []

(5) CASING INSTALLED:

6" Diam. from 0 ft. to 136 ft. Gage 250

(6) PERFORATIONS:

Type of perforator used torch Size of perforations 14 in. by 1/8 in. 264 perforations from 70 ft. to 136 ft.

(7) SCREENS:

Well screen installed? [] Yes [x] No Manufacturer's Name Type Diam. Slot size Set from ft. to ft.

(8) WELL TESTS:

Drawdown is amount water level is lowered below static level a pump test made? [] Yes [x] No If yes, by whom? gal./min. with ft. drawdown after hrs.

(9) CONSTRUCTION:

Well seal—Material used Cement Well sealed from land surface to 68 ft. Diameter of well bore to bottom of seal 10 in.

Was a drive shoe used? [x] Yes [] No Plugs Size: location ft. Did any strata contain unusable water? [] Yes [x] No

Method of sealing strata off

Was well gravel packed? [] Yes [x] No Size of gravel: Gravel placed from ft. to ft.

(10) LOCATION OF WELL:

County Jackson Driller's well number 2 1/4 Section 27 T. 36S R. 3W W.M. Bearing and distance from section or subdivision corner

(11) WATER LEVEL: Completed well.

Depth at which water was first found 78/70 ft. Static level 20 ft. below land surface. Date 5/12/77 Artesian pressure lbs. per square inch. Date

(12) WELL LOG:

Diameter of well below casing 6 Depth drilled 138 ft. Depth of completed well 138 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.

Table with columns: MATERIAL, From, To, SWL. Rows include Soil--brown, Gravel--brown & gray, Clay--brown, etc.

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Work started 5/9 1977 Completed 5/12 1977 Date well drilling machine moved off of well 5/12 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] Wayne Milbowski Date 5/20, 1977

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 Virgile Gribble Well Drilling Address 8380 Ramsey Rd., Gold Hill, Ore. [Signed] Wayne Milbowski Contractor's License No. 461 Date 5/20, 1977

Well Flow Test

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Test ID: 7166
 Street Address: 8554 OLD STAGE
 CENTRAL POINT, OR 97502

Test Date: Feb 19, 2021
 Service Tech: JIM HENDERSON

Name: FARM MGR - SLOAN CALLAHAN
 Billing Address: 8554 OLD STAGE
 CENTRAL POINT, OR 97502
 Telephone: 530-339-6762

Test Requirements: 4 HOUR WELL FLOW ON WELL #2

Remarks: THE FLOW METER WAS MAXED OUT, THE WELL PRODUCES OVER 130GPM.

Equipment Used: EXISTING EQUIPMENT Source: WELL #2
 Well Depth: 140 Pumping Level: 0 Diameter: 18 Seal: Yes Vent: Yes Pop Off Valve: No
 Water Color: CLEAR Taste: N/A Odor: NONE

Flow Data

Time	Flow	Level	Meter
09:15 AM	130 GPM	37 feet	1950.00 Gallons
09:30 AM	130 GPM		3900.00 Gallons
09:45 AM	130 GPM		5850.00 Gallons
10:00 AM	130 GPM		7800.00 Gallons
10:15 AM	130 GPM		9750.00 Gallons
10:30 AM	130 GPM		11700.00 Gallons
10:45 AM	130 GPM		13650.00 Gallons
11:00 AM	130 GPM		15600.00 Gallons
11:15 AM	130 GPM		17550.00 Gallons
11:30 AM	130 GPM		19500.00 Gallons
11:45 AM	130 GPM		21450.00 Gallons
12:00 PM	130 GPM		23400.00 Gallons
12:15 PM	130 GPM		25350.00 Gallons
12:30 PM	130 GPM		27300.00 Gallons
12:45 PM	130 GPM		29250.00 Gallons
01:00 PM	130 GPM		31200.00 Gallons
01:15 PM	130 GPM		33150.00 Gallons

Total Time 4 Hours Total Gallons 33150.00 Gallons

GPM = Gallons per minute being pumped out of well.

Level = The distance from the top of the well to the water level in the well.

Meter = Total gallons of water pumped from well.

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Alpine Environmental Consultants, LLC

12208 Antioch Road
White City, Oregon 97503
541.944.4685
jwilliams@alpine-env-llc.com

April 14, 2021

Mr. Jeremy Pratt
3439 NE Sandy Boulevard, #356
Portland, OR 97232

RE: Water Rights Technical Memorandum in Support of Groundwater Registration
Modification Project for GR-3387, 8554 Old Stage Road in Central Point, Oregon

Dear Mr. Pratt,

Per your request, Alpine Environmental Consultants, LLC (AEC) has prepared this technical memorandum documenting our observations and professional opinion regarding a proposed modification to an existing Groundwater Registration (GR) located at the property addressed as 8455 Old Stage Road in Central Point, Oregon (the Site). Specifically, AEC collected hydrogeologic data associated with a water supply sump dug at the Site in 1953 and an irrigation well drilled at the Site in 1977. Based on an evaluation of these data, AEC has concluded the formations in which the 1953 Dug Sump and the 1977 Irrigation Well constitute the "same source" as loosely defined by the Oregon Water Resources Department (WRD). The location of the Site is illustrated on **Figure 1** and **Figure 2**.

BACKGROUND

Working with you and Mr. Evan Malepsy of Rogue Civil, LCC, AEC understands the 1953 Dug Sump identified as GR-3387 is now dry and that you wish to transfer the existing water right to the 1977 Irrigation Well. AEC also understands that in order to accomplish this, Mr. Malepsy is preparing a formal water rights modification package for submittal to WRD. Based on a review of email communications between Mr. Malepsy and Mr. Joe Kemper of WRD, one condition of this water rights transfer is that the water from the 1953 Dug Sump and the 1977 Irrigation Well must be withdrawn from the "same source."

While the WRD does not currently have a formal definition of "same source," the definition for aquifer is explicitly identified in two sections of the Oregon Administrative Rules (OARs):

- OAR 690-008-0001(1) – “Aquifer” means a water-bearing body of naturally occurring earth materials that is sufficiently permeable to yield usable quantities of water to wells and/or springs.
- OAR 690-200-0050(9) – “Aquifer” means a geologic formation, group of formations, or part of a formation that contains saturated and permeable material capable of transmitting water in sufficient quantity to supply wells or springs and the contains water that is similar throughout in characteristics such as potentiometric head, chemistry, and temperature (see Figure 200-2).

The locations of the 1953 Dug Sump associated with GR-3387, identified as Point of Appropriation 1 (POA 1), and the existing 1977 Irrigation Well to which the groundwater right is proposed to be transferred, identified as POA 2, are illustrated on **Figure 2**.

1953 Dug Sump Characteristics

The Registration Statement for the 1953 Dug Sump is included as **Attachment 1**. Characteristics of the 1953 Dug Sump include the following:

- Constructed in August 1953.
- The formation in which the sump was installed was described as “sand.”
- The sump dimensions were 12 feet deep, 16 feet wide, and either 10 or 70 feet long. This potential discrepancy regarding length is associated with legibility issues, though the length is likely 70 feet because there is separate reference to the trench being 70 feet long.
- Depth to water table was 6 feet at that time.

1977 Irrigation Well Characteristics

The well log for the 1977 Irrigation Well is included as **Attachment 2**. The well log is identified by WRD as JACK 9123 and characteristics of the 1977 Irrigation Well include the following:

- Constructed in May 1977.
- The formations documented in the log include soil, gravel, clay, “claystone”, and granite. These materials likely constitute a mixture of colluvium and alluvium, underlain by bedrock.
- The well depth was 138 below grade.
- The static depth to water 20 feet below grade at that time.
- Quinn’s Well Pump & Filtration Service (Quinn’s) ran a pumping test on this irrigation well on February 19, 2021. The pre-pumping static depth to water was 37 feet below the top of casing, or approximately 35 feet below grade. A copy of Quinn’s records are attached as **Attachment 3**.

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Alpine Environmental Consultants, LLC

Mr. Jeremy Pratt
April 14, 2021

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Test Pit Observations Adjacent to 1953 Dug Sump

On February 15, 2021, Mr. Jonathan Williams of AEC visited the Site to collect and record hydrogeologic observations of a test pit that was excavated earlier that morning adjacent to the 1953 Dug Sump. The test pit was excavated by Mr. George Villa of Altered Fields using a Kubota KX-080-4 tracked excavator. Photographs taken during this Site visit are included as **Attachment 4**.

Observations made during this Site visit included the following:

- Based on information from Mr. Villa, test pit excavation activities were initiated at approximately 0745 and completed at approximately 1145.
- The test pit was approximately 18 feet deep.
- The lithology of the upper 4 feet consisted of a loose dark brown moist loam.
- From a depth of approximately 4 feet to approximately 18 feet below grade, the lithology consisted of a tan brown loose to mildly dense moist loam with some semi-rounded cobbles. At the bottom of the test pit, the percentage of semi-rounded cobbles increased to approximately 75 percent. These materials likely consist of colluvium, with the semi-rounded cobbles present near the test pit bottom likely representing the C horizon of the underlying bedrock. Mr. Villa indicated excavation of all of the material, including the material at the bottom of the test pit, was fairly easy to excavate and none of the material was hard.
- At 1415 there were approximately 6 inches of water in the bottom of the test pit. Mr. Villa indicated the water level had not changed noticeably since the excavation had been completed at 1145.

Data Evaluation and Conclusions

The lithologies of the 1953 Dug Sump and the 1977 Irrigation Well are similar, consisting of colluvium and/or alluvium. These lithologies likely qualify both of these features being completed in same aquifer or “same source.”

AEC also compared the historical and current water level elevation data from the 1953 Sump and the 1977 Irrigation Well, and these data are presented in **Table 1**. To account for different land surface elevations, approximate land surface elevations at these two locations were derived from Google Earth. In conjunction with land surface elevations, the depths to water at these locations were then used to calculate the estimated water table elevations (i.e. land surface elevation minus the depth to the water table, or piezometric surface). Based on these calculations, the estimated water table elevations at the 1953 Dug Sump and the 1977 Irrigation Well at the times of construction were 1,158 and 1,157 feet above mean sea level (amsl), respectively. However, it should be noted the 1977 Irrigation Well was constructed 24 years after the 1953 Dug Sump. The estimated water table elevations proximal to the 1953 Dug

Mr. Jeremy Pratt
April 14, 2021

Sump and the 1977 Irrigation well in February 2021 were 1,146 and 1,142 feet amsl, respectively.

These estimated water table elevations at the 1953 Dug Sump and the 1977 Irrigation Well were approximately equivalent to each other both at their times of construction and in February 2021. Per the definition of "Aquifer" provided in OAR 690-200-0050(9), the approximately equivalent groundwater elevations (i.e. potentiometric heads) in the 1953 Dug Sump and the 1977 Irrigation Well at the time of construction and in February 2021 indicate both features (i.e. the sump and the well) are constructed in the "same source," or aquifer.

Based on similar lithologies and similar groundwater elevations at the time of construction and in February 2021, AEC concludes the 1953 Dug Sump and the 1977 Irrigation Well qualify as being completed in the "same source" or aquifer.

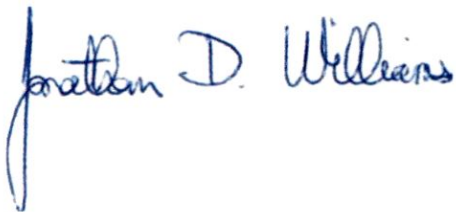
Qualifications

Mr. Jonathan Williams received a Bachelor of Science degree in Geology, with honors, from Duke University in 1987. He has over 28 years of experience working with geologic and environmental reports, including Phase I ESAs. Mr. Williams has been a Registered Geologist in the State of Oregon since 1996, and has 40-hour HAZWOPER training.

Please feel free to contact me at 541-944-4685 or jwilliams@alpine-enc-llc.com if you have any questions about the information documented in this memorandum.

Sincerely,

Alpine Environmental Consultants, LLC



Jonathan D. Williams, RG
Senior Hydrogeologist, Principal

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Mr. Jeremy Pratt
April 14, 2021

Attachments:

Limitations

Figure 1 – General Site Location Map

Figure 2 – Site Location Map Detail

Table 1 – Estimated Groundwater Elevations

Attachment 1 – 1953 Dug Sump, GR-3387

Attachment 2 – 1977 Irrigation Well Log, JACK 9123

Attachment 3 – Quinn’s Pump Service Records for 1977 Irrigation Well, February 19,
2021.

Attachment 4 – Photographic Log, Excavation Adjacent to 1953 Sump

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LIMITATIONS

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given site area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. This environmental assessment contains professional opinions as to the environmental issues of concern and/or additional actions, which may be addressed to the property. In rendering its professional opinion, we warrant that services provided hereunder were performed, within the limits described, consistent with current generally accepted environmental consulting principles and practices. No other warranty, express or implied, is made. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given site. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the site, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Any opinions or recommendations presented apply to site conditions existing when services were performed. We are unable to report on or accurately predict events that may change the site conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to investigate, or conditions not generally recognized as environmentally unacceptable when services were performed.

Environmental conditions may exist at the site that cannot be identified by visual observation. Where the scope of services was limited to observations made during site reconnaissance, interviews, review of readily available reports and literature or any combination, any conclusions or recommendations or both are necessarily based in part on information supplied by others, the accuracy or sufficiency of which we may not have independently reviewed.

Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

We are not responsible for any potential impact of changes in applicable environmental standards, practices, or regulations following performance of services, on the conclusions or recommendations, or both, of the study.

Services hereunder were performed consistent with our agreement and understanding with, and solely for the use of, our client. Opinions and recommendations are intended for the client, purpose, site, location, time frame, and project parameters indicated. We are not responsible for subsequent separation, detachment, or partial use of this document. Any reliance on this report by a third party shall be at such party's sole risk.

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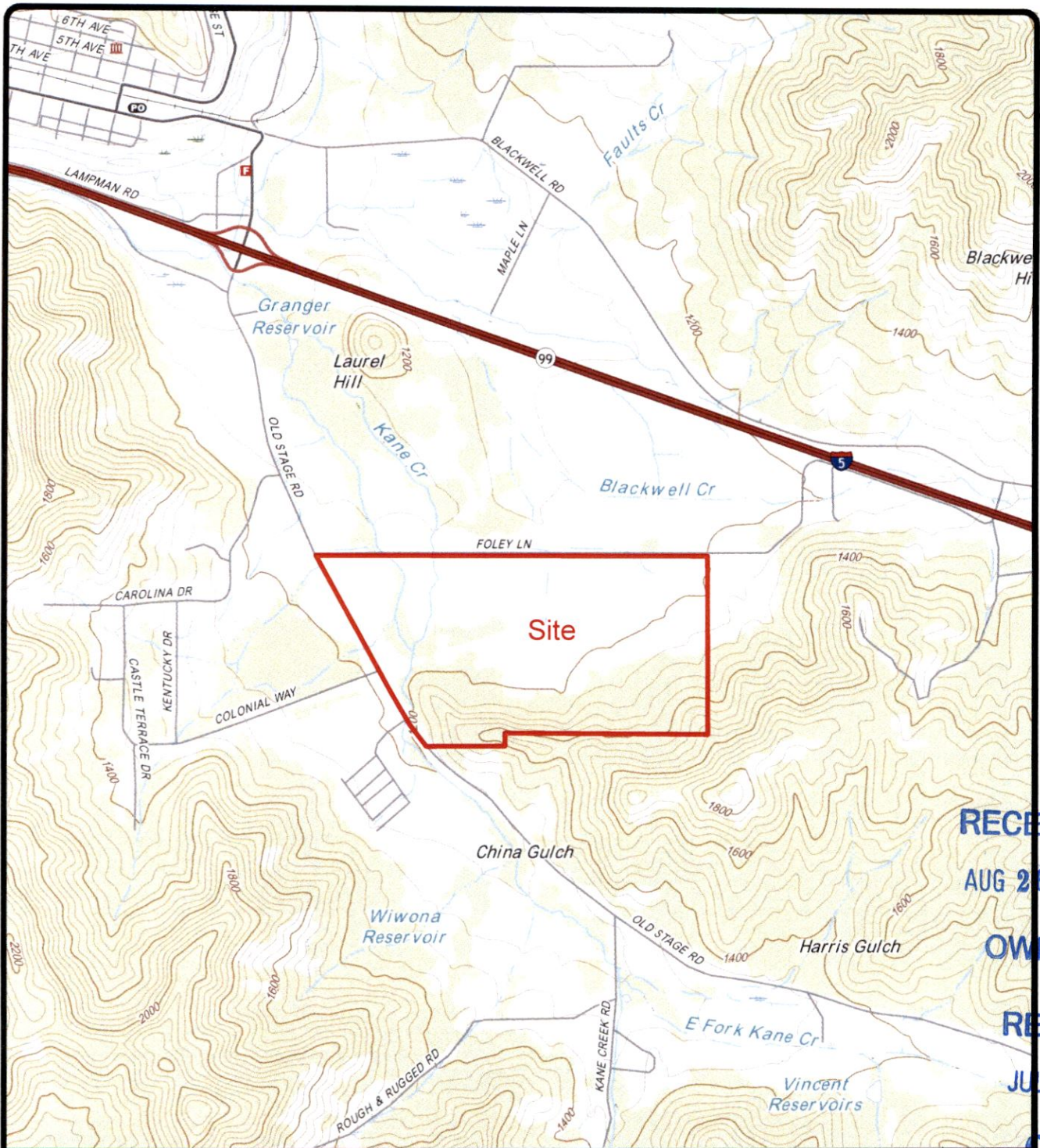
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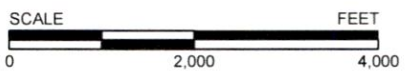
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SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLES
 GOLD HILL, OR (2020)



LEGEND

— Approximate Site Boundary



ALPINE ENVIRONMENTAL CONSULTANTS, LLC
 DATE: 4/10/21 DRAWN BY: SRM

Figure 1
 General Site Location Map
 Groundwater Registration Modification Project
 8554 Old Stage Road
 Central Point, Oregon



SOURCE: GOOGLE EARTH (2020)

LEGEND

- POA 1 ● Approximate Location of Existing Point of Appropriation
- POA 2 ● Approximate Location of New Point of Appropriation
- Irrigation Well Log Number 9123
- Approximate Site Boundary

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ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE 4/10/21

DRAWN BY SRM

Figure 2
 Site Location Map Detail
 Groundwater Registration Modification Project
 8554 Old Stage Road
 Central Point, Oregon

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Table 1
 Estimated Groundwater Elevations at 1953 Dug Sump and 1977 Irrigation Well
 Groundwater Registration Modification Project
 8554 Old Stage Road in Central Point, Oregon

	Estimated Land Surface Elevation Derived From Google Earth (ft amsl)	Recorded Depth to Water When Constructed (feet bg)	Year Constructed	Approximate Groundwater Elevation When Installed (feet amsl)	Recorded Depth to Water in February 2021 (feet bg)	Groundwater Elevation (feet amsl) in February 2021
1953 Dug Sump	1164	6	1953	1158	18	1146
1977 Irrigation Well	1177	20	1977	1157	35	1142
Comments				Comment 1		Comment 2

Notes:

feet amsl = feet above mean sea level.

feet bg = feet below grade.

Depth to water measured at well assumes top of casing has a 2-foot casing stickup above grade.

Comment 1 = These groundwater elevations are approximately equivalent. However, there is a measurement date difference of 24 years.

Comment 2 = These groundwater elevations are approximately equivalent as well. Furthermore, inferred presence of irrigation wells in the center of the valley should be expected to develop a cone of depression.

ATTACHMENT 1

1953 Dug Sump, GR-3387

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Registration No. GR - 3387

Certificate No. GR 3128

Registration Statement

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OF CLAIMANT OF RIGHT TO APPROPRIATE GROUND WATER

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TO THE STATE ENGINEER OF OREGON:

I, WILLIAM W. FOLEY
of R. 1, Box 325 CENTRAL POINT County of JACKSON
State of OREGON, do hereby make application for a certificate of registration as evidence of a right to appropriate ground water.

1. Source from which water is withdrawn is SUMM (Flowing well, pump well, infiltration trench, or tunnel)

2. Location is: 1 1/2 MILES SOUTH OF GOLD HILL, GRE (Approximate distance and direction from nearest city or town)

and is more particularly described as follows:

(a) being within SE 1/4 of NE 1/4 of Sec. 27, Twp. 36S, Rge. 3W (Smallest legal subdivision)

or (b) within limits of recorded platted property, town or city:

in Lot, Block of County of (Name of plat or addition)

3. Construction Work was begun on Aug 10, 1953; was completed on Aug 12, 1953 (Date)

and the ground water claimed was first used for the purposes set out below on Aug 20, 1953 (Date)

since which time the water has been used INTERMITTENTLY (Continuously or intermittently)

from Aug 20, 1953 to June 1958 (Date)

4. Quantity of water claimed and used is 120 gallons per minute; acre feet per year.

5. Purpose or Purposes for which water is used IRRIGATION DOMESTIC IRRIGATION (Domestic, irrigation, municipal, manufacturing, industrial, etc.)

6. Description of Well: Depth 12 feet. Type Dug SUMM (Dug or drilled) diameter 16 x 10 inches. Elevation of ground at well site 1300 feet, mean sea level. (As near as known) Depth to water table 6 feet.

7. Capacity of Well: g.p.m. with feet drawdown. g.p.m. with feet drawdown.

Date of test

If Flowing Well: Measured discharge g.p.m. on (Date)

Shut-in pressure at ground surface lbs. per sq. in. on (Date)

Water is controlled by (Cap, valve, etc.)

8. Casing: (Give diameter, commercial specifications and depth below ground surface of each casing size.)

..... inch diameter from to feet
..... inch diameter from to feet
..... inch diameter from to feet
..... inch diameter from to feet

Describe and show depth of shoe, plug, adapter, liner or other details:

9. Perforated Casings or Screens:

(Number per foot and size of perforations, or describe screen) from to
..... from to
..... from to
..... from to

10. Log of Well: (Describe each stratum or formation clearly, indicate if water bearing, and give thickness and depth as indicated.)

MATERIAL	Thickness (Feet)	Depth to Bottom (Feet)

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If log of well is not available, give name and address of driller.

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11. Infiltration Trench: Covered or open OPEN

Dimensions: Length 75 ft. Minimum depth 15 ft. Maximum depth ft.

Bottom width ft. Discharge g.p.m. Date of test

12. Tunnel: Type of lining

Dimensions:
(Length, course, and cross sectional size)

Position of water bearing stratum with reference to portal of tunnel

Log of tunnel: (Preceding table for log of well may be used, if desired. Give footage from portal and character of materials, as pertinent.)

13. Pumping Equipment:

(a) Pump BERKELEY 6 H.P. CENT Capacity 100 GALS g.p.m.
(Make, type and size)

(b) Motor WISCONSIN AIR COOLED 6 H.P.
(Type and horsepower)

14. Location of area irrigated or to be irrigated, or place of use if for purposes other than irrigation.

Township North or South	Range E. or W. of Willamette Meridian	Section	Forty-acre Tract	Number Acres To Be Irrigated	Date of Reclamation
36S	3W	27	SW 1/4	16 Acres	

15. If the ground water supply is supplemental to an existing water supply, identification of any application for a permit, permit, certificate or adjudicated right to appropriate water made or held by the registrant.

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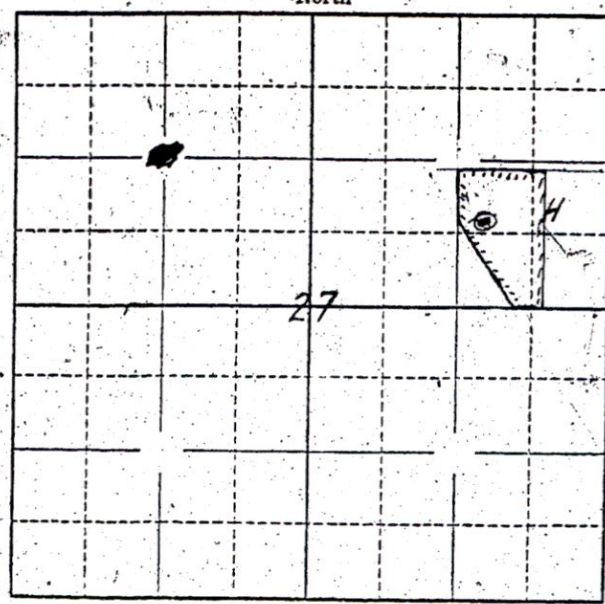
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Township 36 S. Range 3 W., W.M.
North



Locate well and acreage of irrigated land on plat.
Scale: 2" = 1 Mile

STATE OF OREGON

County of Jackson

4 } ss.

I, William M. Foley, being first duly sworn, do hereby certify that I have read the foregoing Registration Statement and that all of the items therein contained are true to the best of my knowledge and belief.

William M. Foley
(Signature of Registrant)

Subscribed and sworn to before me this 30th day of July, 1958

My commission expires July 16, 1959

L. G. Collins
(Notary Public)

(SEAL)

CERTIFICATE OF REGISTRATION

STATE OF OREGON

County of Marion

} ss.

This is to certify that the foregoing Registration Statement was received in the office of the State Engineer on the 31 day of July, 1958, at 8:00 o'clock A. M. and has been duly recorded in said office in Book No. 13 of Registration Statements on page GR-3128

Witness my hand this 16th day of June, 1959

Leora A. Stanley
(State Engineer)

By 13809
(Deputy)

GR - 3128

#15.00

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ATTACHMENT 2

1977 Irrigation Well Log, JACK 9123

1977 Irrigation Well Log, JACK 9123

1977 Irrigation Well Log, JACK 9123

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

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

WATER WELL REPORT

STATE OF OREGON

(Please type or print)

(Do not write above this line)

JACK
9123

State Well No. 365/3W-27

State Permit No. _____

(1) OWNER:

Name Louis Burns
Address 8554 Old Stage Rd.,
Gold Hill, Or.

(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
 Bored

(4) PROPOSED USE (check):

Domestic Industrial Municipal
Irrigation Test Well Other

(5) CASING INSTALLED:

Threaded Welded
6" Diam. from 0 ft. to 136 ft. Gage 250
" Diam. from " ft. to " ft. Gage "
" Diam. from " ft. to " ft. Gage "

(6) PERFORATIONS:

Perforated? Yes No.

Type of perforator used torch
Size of perforations 14 in. by 1/8 in.
264 perforations from 70 ft. to 136 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

a pump test made? Yes No If yes, by whom?
" gal./min. with " ft. drawdown after " hrs.

" AIR " " " " " " "
Bailer test 100 gal./min. with 100 ft. drawdown after 1 1/2 hrs.
ian 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 68 ft.
Diameter of well bore to bottom of seal 10 in.
Diameter of well bore below seal 6 in.
Number of sacks of cement used in well seal 10 sacks
How was cement grout placed? poured

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 Jackson Driller's well number 42
1/4 Section 27 T. 36S R. 3W W.M.
Bearing and distance from section or subdivision corner _____

(11) WATER LEVEL: Completed well.

Depth at which water was first found 77 1/2 ft.
Static level 20 ft. below land surface. Date 5/12/77
Artesian pressure _____ lbs. per square inch. Date _____

(12) WELL LOG:

Diameter of well below casing 6 ft.

Depth drilled 138 ft. Depth of completed well 138 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
Soil--brown	0	3	
Gravel-brown & gray	3	21	
Clay--brown	21	45	
Gravel--brown & gray	45	54	
Clay--brown	54	60	
Claystone--brown	60	70	
Gravel--brown & gray	70	136	
Granite--gray	136	138	

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WATER RESOURCES DEPT
SALEM, OREGON

Work started 5/9 1977 Completed 5/12 1977
Date well drilling machine moved off of well 5/12 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] Sig. Milkovich Date 5/20, 1977
(Drilling Machine Operator) 483

Drilling Machine Operator's License No. _____

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 Virgle Gribble Well Drilling
(Person, firm or corporation) (Type or print)

Address 8380 Ramsey Rd., Gold Hill, Ore.

[Signed] Wayne Milkowski
(Water Well Contractor)

Contractor's License No. 461 Date 5/20, 1977

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ATTACHMENT 3

Quinn's Pump Service Records for 1977 Irrigation Well
February 19, 2021

Well Flow Test



Test ID: 7166
Street Address: 8554 OLD STAGE
 CENTRAL POINT, OR 97502

Test Date: Feb 19, 2021
Service Tech: JIM HENDERSON

Name: FARM MGR - SLOAN CALLAHAN
Billing Address: 8554 OLD STAGE
 CENTRAL POINT, OR 97502
Telephone: 530-339-6762

Test Requirements: 4 HOUR WELL FLOW ON WELL #2

Remarks: THE FLOW METER WAS MAXED OUT, THE WELL PRODUCES OVER 130GPM.

Equipment Used: EXISTING EQUIPMENT **Source:** WELL #2
Well Depth: 140 **Pumping Level:** 0 **Diameter:** 18 **Seal:** Yes **Vent:** Yes **Pop Off Valve:** No
Water Color: CLEAR **Taste:** N/A **Odor:** NONE

Flow Data

Time	Flow	Level	Meter
09:15 AM	130 GPM	37 feet	1950.00 Gallons
09:30 AM	130 GPM		3900.00 Gallons
09:45 AM	130 GPM		5850.00 Gallons
10:00 AM	130 GPM		7800.00 Gallons
10:15 AM	130 GPM		9750.00 Gallons
10:30 AM	130 GPM		11700.00 Gallons
10:45 AM	130 GPM		13650.00 Gallons
11:00 AM	130 GPM		15600.00 Gallons
11:15 AM	130 GPM		17550.00 Gallons
11:30 AM	130 GPM		19500.00 Gallons
11:45 AM	130 GPM		21450.00 Gallons
12:00 PM	130 GPM		23400.00 Gallons
12:15 PM	130 GPM		25350.00 Gallons
12:30 PM	130 GPM		27300.00 Gallons
12:45 PM	130 GPM		29250.00 Gallons
01:00 PM	130 GPM		31200.00 Gallons
01:15 PM	130 GPM		33150.00 Gallons

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Total Time	Total Gallons
4 Hours	33150.00 Gallons

GPM = Gallons per minute being pumped out of well.

Level = The distance from the top of the well to the water level in the well.

Meter = Total gallons of water pumped from well.

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ATTACHMENT 4

Photographic Log of Test Pit Excavation Adjacent to 1953 Dug Sump
February 15, 2021



1. Test Pit Excavation.



4. Test Pit Excavation.



2. Test Pit Excavation with separate piles of different lithologies.



3. Test location relative to 1953 Dug Sump.

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