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**Water Right Conditions  
Tracking Slip**

Groundwater/Hydrology Section

FILE # # G-17594

ROUTED TO: Water Rights - Jenna

TOWNSHIP/  
RANGE-SECTION: 7S/38E - 25

CONDITIONS ATTACHED?:  yes  no

REMARKS OR FURTHER INSTRUCTIONS:  
\_\_\_\_\_  
\_\_\_\_\_

Reviewer: Mike Zwart



**PUBLIC INTEREST REVIEW FOR GROUND WATER APPLICATIONS**

TO: Water Rights Section Date December 13, 2012

FROM: Ground Water/Hydrology Section Michael Zwart  
Reviewer's Name

SUBJECT: Application G- 17594 Supersedes review of N/A  
Date of Review(s)

**PUBLIC INTEREST PRESUMPTION; GROUNDWATER**

**OAR 690-310-130 (1)** *The Department shall presume that a proposed groundwater use will ensure the preservation of the public welfare, safety and health as described in ORS 537.525.* Department staff review ground water applications under OAR 690-310-140 to determine whether the presumption is established. OAR 690-310-140 allows the proposed use be modified or conditioned to meet the presumption criteria. **This review is based upon available information and agency policies in place at the time of evaluation.**

**A. GENERAL INFORMATION:** Applicant's Name: Delbert Stephens County: Baker

A1. Applicant(s) seek(s) 6.7 cfs from three well(s) in the Powder Basin,  
 \_\_\_\_\_ subbasin Quad Map: Rock Creek

A2. Proposed use: Irrigation, 400 ac. (Sup.) Seasonality: March 1 to October 31

A3. Well and aquifer data (attach and number logs for existing wells; mark proposed wells as such under logid):

Well	Logid	Applicant's Well #	Proposed Aquifer*	Proposed Rate(cfs)	Location (T/R-S QQ-Q)	Location, metes and bounds, e.g. 2250' N, 1200' E fr NW cor S 36
1	Proposed	1	Alluvium	6.7	7S/38E-25 SW-NW	1470' S, 105' E fr NW cor S 25
2	Proposed	2	Alluvium	6.7	7S/38E-25 NW-NW	1065' S, 90' E fr NW cor S 25
3	Proposed	3	Alluvium	6.7	7S/38E-25 NE-NW	575' S, 1415' E fr NW cor S 25
4						
5						

\* Alluvium, CRB, Bedrock

Well	Well Elev ft msl	First Water ft bls	SWL ft bls	SWL Date	Well Depth (ft)	Seal Interval (ft)	Casing Intervals (ft)	Liner Intervals (ft)	Perforations Or Screens (ft)	Well Yield (gpm)	Draw Down (ft)	Test Type
1	3524				300	0-20	0-300	None	100-300			
2	3520				300	0-20	0-300	None	100-300			
3	3492				300	0-20	0-300	None	100-300			

Use data from application for proposed wells.

A4. **Comments: Application is requesting greater than the customary rate. Nearby well logs indicate the SWL will likely be about 15-40 feet. I do not believe that it is possible to produce 6.7 cfs from a single well in this area. Also, it is not clear that a pump of this capacity will fit in the 10 to 12-inch casing being proposed.**

A5.  **Provisions of the Powder** \_\_\_\_\_ Basin rules relative to the development, classification and/or management of ground water hydraulically connected to surface water  are, or  are not, activated by this application. (Not all basin rules contain such provisions.)

Comments: \_\_\_\_\_

A6.  Well(s) # \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_, tap(s) an aquifer limited by an administrative restriction.

Name of administrative area: \_\_\_\_\_  
 Comments: \_\_\_\_\_

**B. GROUND WATER AVAILABILITY CONSIDERATIONS, OAR 690-310-130, 400-010, 410-0070**

B1. Based upon available data, I have determined that ground water\* for the proposed use:

- a.  is over appropriated,  is not over appropriated, or  cannot be determined to be over appropriated during any period of the proposed use. \* This finding is limited to the ground water portion of the over-appropriation determination as prescribed in OAR 690-310-130;
- b.  will not or  will likely be available in the amounts requested without injury to prior water rights. \* This finding is limited to the ground water portion of the injury determination as prescribed in OAR 690-310-130;
- c.  will not or  will likely to be available within the capacity of the ground water resource; or
- d.  will, if properly conditioned, avoid injury to existing ground water rights or to the ground water resource:
  - i.  The permit should contain condition #(s) 7N, 7T, 7K (100 feet, shallower water-bearing zones);
  - ii.  The permit should be conditioned as indicated in item 2 below.
  - iii.  The permit should contain special condition(s) as indicated in item 3 below;

- B2. a.  Condition to allow ground water production from no deeper than \_\_\_\_\_ ft. below land surface;
- b.  Condition to allow ground water production from no shallower than \_\_\_\_\_ ft. below land surface;
- c.  Condition to allow ground water production only from the \_\_\_\_\_ ground water reservoir between approximately \_\_\_\_\_ ft. and \_\_\_\_\_ ft. below land surface;
- d.  Well reconstruction is necessary to accomplish one or more of the above conditions. The problems that are likely to occur with this use and without reconstructing are cited below. Without reconstruction, I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Ground Water Section.

**Describe injury** –as related to water availability– that is likely to occur without well reconstruction (interference w/ senior water rights, not within the capacity of the resource, etc): \_\_\_\_\_

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B3. Ground water availability remarks: The nearest SOW (#3) indicates that water levels are relatively stable.

**The application proposes to perforate or screen intervals no shallower than 100 feet. The recommended well construction condition will ensure that no shallow water-bearing zones are actually developed. Some local well logs report the top of a fairly thick clay bed at 91 to 93 feet below land surface**

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**C. GROUND WATER/SURFACE WATER CONSIDERATIONS, OAR 690-09-040**

C1. 690-09-040 (1): Evaluation of aquifer confinement:

Well	Aquifer or Proposed Aquifer	Confined	Unconfined
All	Interbedded sand, gravel, clay and shale	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Likely Qtg of Brooks, 1976	<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>
		<input type="checkbox"/>	<input type="checkbox"/>

Basis for aquifer confinement evaluation: Based on nearby well logs, the aquifer appears confined to semiconfined. Regionally, the aquifer is probably poorly confined or unconfined.

C2. 690-09-040 (2) (3): Evaluation of distance to, and hydraulic connection with, surface water sources. All wells located a horizontal distance less than 1/4 mile from a surface water source that produce water from an unconfined aquifer shall be assumed to be hydraulically connected to the surface water source. Include in this table any streams located beyond one mile that are evaluated for PSI.

Well	SW #	Surface Water Name	GW Elev ft msl	SW Elev ft msl	Distance (ft)	Hydraulically Connected?			Potential for Subst. Interfer. Assumed?	
						YES	NO	ASSUMED	YES	NO
1	1	Big Muddy Creek	3495±	3530	2300	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
1	2	Little Muddy Creek	3495±	3500	4600	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	1	Big Muddy Creek	3495±	3525	2100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	2	Little Muddy Creek	3495±	3500	4200	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	1	Big Muddy Creek	3495±	3488	2000	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	2	Little Muddy Creek	3495±	3475	4100	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Basis for aquifer hydraulic connection evaluation: The proposed well construction and likely depth to the water-bearing zone suggest that hydraulic connection is poor with the nearest stream reaches. Downstream reaches greater than one mile are likely to be in better hydraulic connection, where the creeks descend from the older terrace deposits into the interbedded or overlying Quaternary alluvial deposits.

Water Availability Basin the well(s) are located within: Powder R > Snake R above unnamed stream (72191).

C3a. 690-09-040 (4): Evaluation of stream impacts for each well that has been determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Limit evaluation to instream rights and minimum stream flows that are pertinent to that surface water source, and not lower SW sources to which the stream under evaluation is tributary. Compare the requested rate against the 1% of 80% natural flow for the pertinent Water Availability Basin (WAB). If Q is not distributed by well, use full rate for each well. Any checked  box indicates the well is assumed to have the potential to cause PSI.

Well	SW #	Well < 1/4 mile?	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		<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"/>	<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"/>

C3b. **690-09-040 (4):** Evaluation of stream impacts by total appropriation for all wells determined or assumed to be hydraulically connected and less than 1 mile from a surface water source. Complete only if Q is distributed among wells. Otherwise same evaluation and limitations apply as in C3a above.

	SW #	Qw > 5 cfs?	Instream Water Right ID	Instream Water Right Q (cfs)	Qw > 1% ISWR?	80% Natural Flow (cfs)	Qw > 1% of 80% Natural Flow?	Interference @ 30 days (%)	Potential for Subst. Interfer. Assumed?
		<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"/>

Comments: This section does not apply.

C4a. **690-09-040 (5):** Estimated impacts on hydraulically connected surface water sources greater than one mile as a percentage of the proposed pumping rate. Limit evaluation to the effects that will occur up to one year after pumping begins. This table encompasses the considerations required by 09-040 (5)(a), (b), (c) and (d), which are not included on this form. Use additional sheets if calculated flows from more than one WAB are required.

Non-Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
Distributed Wells													
Well	SW#	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
		%	%	%	%	%	%	%	%	%	%	%	%
Well Q as CFS													
Interference CFS													
(A) = Total Interf.													
(B) = 80 % Nat. Q													
(C) = 1 % Nat. Q													
(D) = (A) > (C)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
(E) = (A / B) x 100		%	%	%	%	%	%	%	%	%	%	%	%

(A) = total interference as CFS; (B) = WAB calculated natural flow at 80% exceed. as CFS; (C) = 1% of calculated natural flow at 80% exceed. as CFS; (D) = highlight the checkmark for each month where (A) is greater than (C); (E) = total interference divided by 80% flow as percentage.

**Basis for impact evaluation:** This section applies, however, it is not possible to determine the likely distance(s) hydraulic connection occurs with the more distant reaches of surface water sources. Potential interference is likely diffuse and distributed between both Big and Little Muddy Creeks, the Powder River, and possibly with Sand Creek and Rock Creek. Hydraulic connection with the mainstem Powder River is likely poor due to the effect of Hutchinson Hill, a bedrock outcrop. It is judged to be inappropriate to use a simple analytical model (Hunt/Wozniak) to calculate the potential interference.

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C4b. **690-09-040 (5) (b)** The potential to impair or detrimentally affect the public interest is to be determined by the Water Rights Section.

- C5.  **If properly conditioned**, the surface water source(s) can be adequately protected from interference, and/or ground water use under this permit can be regulated if it is found to substantially interfere with surface water:
- i.  The permit should contain condition #(s) \_\_\_\_\_;
  - ii.  The permit should contain special condition(s) as indicated in "Remarks" below;

C6. **SW / GW Remarks and Conditions**

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**References Used:** Local well logs; local recent reviews; Brooks, Geology of the Oregon Part of the Baker 1° by 2° Quad, 1976. OWRD Ground Water Report #6. Ground Water Resources of Baker Valley, Baker County, Oregon, by Frederick D. Trauger.

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**D. WELL CONSTRUCTION, OAR 690-200**

D1. Well #: \_\_\_\_\_ Logid: \_\_\_\_\_

D2. **THE WELL does not meet current well construction standards based upon:**

- a.  review of the well log;
- b.  field inspection by \_\_\_\_\_;
- c.  report of CWRE \_\_\_\_\_;
- d.  other: (specify) \_\_\_\_\_

D3. **THE WELL construction deficiency:**

- a.  constitutes a health threat under Division 200 rules;
- b.  commingles water from more than one ground water reservoir;
- c.  permits the loss of artesian head;
- d.  permits the de-watering of one or more ground water reservoirs;
- e.  other: (specify) \_\_\_\_\_

D4. **THE WELL construction deficiency is described as follows:** \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

- D5. **THE WELL**
- a.  was, *or*  was not constructed according to the standards in effect at the time of original construction or most recent modification.
  - b.  I don't know if it met standards at the time of construction.

D6.  **Route to the Enforcement Section.** I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Department and approved by the Enforcement Section and the Ground Water Section.

**THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL**

D7.  Well construction deficiency has been corrected by the following actions: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_, 200\_\_\_\_\_  
(Enforcement Section Signature)

D8.  **Route to Water Rights Section (attach well reconstruction logs to this page).**

\_\_\_\_\_



**WATER WELL REPORT**  
STATE OF OREGON

*Bake*  
*49*

**RECEIVED**

JAN 20 1984

State Well No. 75/38E-230  
State Permit No. \_\_\_\_\_

**WATER RESOURCES DEPT.**

**(1) OWNER:**

Name Gerard Maxwell  
Address \_\_\_\_\_  
City HAINES State ORE

**(2) TYPE OF WORK (check):**

New Well  Deepening  Reconditioning  Abandon   
If abandonment, describe material and procedure in Item 12.

**(3) TYPE OF WELL:**

Rotary Air  Driven  Domestic Irrigation  Thermal:   
Percussion Mud  Dug  Bored  Industrial  Test Well  Withdrawal  Municipal  Other  ReInjection

**(4) PROPOSED USE (check):**

**(5) CASING INSTALLED:** Steel  Plastic   
Threaded  Welded   
6" Diam. from 7.1 ft. to 9.5 ft. Gauge .250  
" Diam. from \_\_\_\_\_ ft. to \_\_\_\_\_ ft. Gauge \_\_\_\_\_

**LINER INSTALLED:**

3.2" Diam. from 9.5 ft. to 11.5 ft. Gauge .1186

**(6) PERFORATIONS:**

Perforated?  Yes  No  
Type of perforator used slotted pipe  
Size of perforations 1/4 in. by 9 in.  
12 perforations from 10.5 ft. to 11.5 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?  
eid: \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Air test 20 gal./min. with drill stem at 120 ft. 1 hrs.  
Boiler test \_\_\_\_\_ gal./min. with \_\_\_\_\_ ft. drawdown after \_\_\_\_\_ hrs.  
Artesian flow \_\_\_\_\_ g.p.m.  
temperature of water 5.3 Depth artesian flow encountered \_\_\_\_\_ ft.

**(9) CONSTRUCTION:**

Special standards: Yes  No

Well seal—Material used CEMENT  
Well sealed from land surface to 20 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 17 sacks  
How was cement grout placed? DRIFT PUMP?

Was pump installed? NO Type \_\_\_\_\_ HP \_\_\_\_\_ Depth \_\_\_\_\_ ft.  
Was a drive shoe used?  Yes  No Plugs \_\_\_\_\_ Size: location \_\_\_\_\_ ft.  
Did any strata contain unusable water?  Yes  No  
Type of Water? \_\_\_\_\_ depth of strata \_\_\_\_\_  
Method of sealing strata off \_\_\_\_\_  
Was well gravel packed?  Yes  No Size of gravel: \_\_\_\_\_  
Gravel placed from \_\_\_\_\_ ft. to \_\_\_\_\_ ft.

**SALEM, OREGON**  
**(10) LOCATION OF WELL:**

County BAISEN Driller's well number \_\_\_\_\_  
Sec 5E 1/4 Sec 5E 1/4 Section 23 T. 7 R. 38E W.M.  
Tax Lot # \_\_\_\_\_ Lot \_\_\_\_\_ Blk \_\_\_\_\_ Subdivision \_\_\_\_\_  
Address at well location: \_\_\_\_\_

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found 80 ft.  
Static level 12 ft. below land surface. Date 10-26-83  
Artesian pressure \_\_\_\_\_ lbs. per square inch. Date \_\_\_\_\_

**(12) WELL LOG:**

Diameter of well below casing 6

Depth drilled 120 ft. Depth of completed well 115 ft.  
Formation: Describe color, texture, grain size and structure of materials; and show thickness and nature of each stratum and aquifer penetrated, with at least one entry for each change of formation. Report each change in position of Static Water Level and indicate principal water-bearing strata.

MATERIAL	From	To	SWL
TOP SOIL	0	3	
CLAY BROWN	3	14	
CLAY yellow	14	80	
GRAVEL SMALL	80	93	
CLAY yellow	93	115	
SAND med - M-B	115	120	12

Work started 10-19 1983 Completed 10-26 1983  
Date well drilling machine moved off of well 10-26 1983

**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] DeWay Denny Date 10-26 1983  
(Drilling Machine Operator)

**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 IS DENNIS (Person, firm or corporation) (Type or print)  
Address SAMPLER STAGE BAKER ORE  
[Signed] DeWay Denny (Water Well Contractor)  
Contractor's License No. 591 Date 10-26 1983

**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

SP-12658-080

**WATER WELL REPORT**  
STATE OF OREGON

*Bake  
51*

**RECEIVED**

State Well No. 75/38E-242

JAN 20 1984

State Permit No. ....

**WATER RESOURCES DEPT.**

**(1) OWNER:**

Name DENNIS AXNESS  
Address RT 1  
City HAINES State OR

**(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   
Recovery Mud  Dug  Irrigation  Test Well  Other   
 Bored  Thermal: Withdrawal  ReInjection

**(5) CASING INSTALLED:** Steel  Plastic   
Threaded  Welded   
6" Diam. from 7.1 ft. to 9.0 ft. Gauge 1.250

**LINER INSTALLED:**

" Diam. from ..... ft. to ..... ft. Gauge .....

**(6) PERFORATIONS:** Perforated?  Yes  No  
Type of perforator used SLATED PIPE  
Size of perforations 3/4 in. by 1/8 in.  
12 perforations from 8.5 ft. to 9.0 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?  
Air test 30 gal/min. with drill stem at 90 ft. 2 hrs.  
Bailer test ..... gal/min. with ..... ft. drawdown after ..... hrs.  
Temperature of water 52 Depth artesian flow encountered .....

**(9) CONSTRUCTION:** Special standards: Yes  No   
Well seal—Material used CEMENT  
Well sealed from land surface to ..... ft.  
Diameter of well bore to bottom of seal 1.0 in.  
Diameter of well bore below seal 6 in.  
Number of sacks of cement used in well seal 12 sacks  
How was cement grout placed? GROUT PUMP  
Was pump installed? No Type ..... HP ..... Depth ..... ft.  
Was a drive shoe used?  Yes  No Plugs ..... Size: location ..... ft.  
Did any strata contain unusable water?  Yes  No  
Type of Water? ..... depth of strata .....  
Method of sealing strata off .....  
Was well gravel packed?  Yes  No Size of gravel: .....  
Gravel placed from ..... ft. to ..... ft.

**(10) LOCATION OF WELL:**

County BALISEL Driller's well number .....  
SW 1/4 SE 1/4 Section 24 T. 7 R. 38E W.M.  
Tax Lot # ..... Loc. Blk ..... Subdivision .....  
Address at well location: JANE

**(11) WATER LEVEL: Completed well.**

Depth at which water was first found 25 ft.  
Static level 12 ft. below land surface. Date 10-13-82  
Artesian pressure ..... lbs. per square inch. Date .....

**(12) WELL LOG:** Diameter of well below casing 6  
Depth drilled 100 ft. Depth of completed well 100 ft.

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

MATERIAL	From	To	SWL
TOP SOIL	0	6	
CLAY BROWN	6	25	
SAND & GRAVEL & CLAY	25	85	
SAND Med no-13	85	91	12
CLAY yellow	91	100	

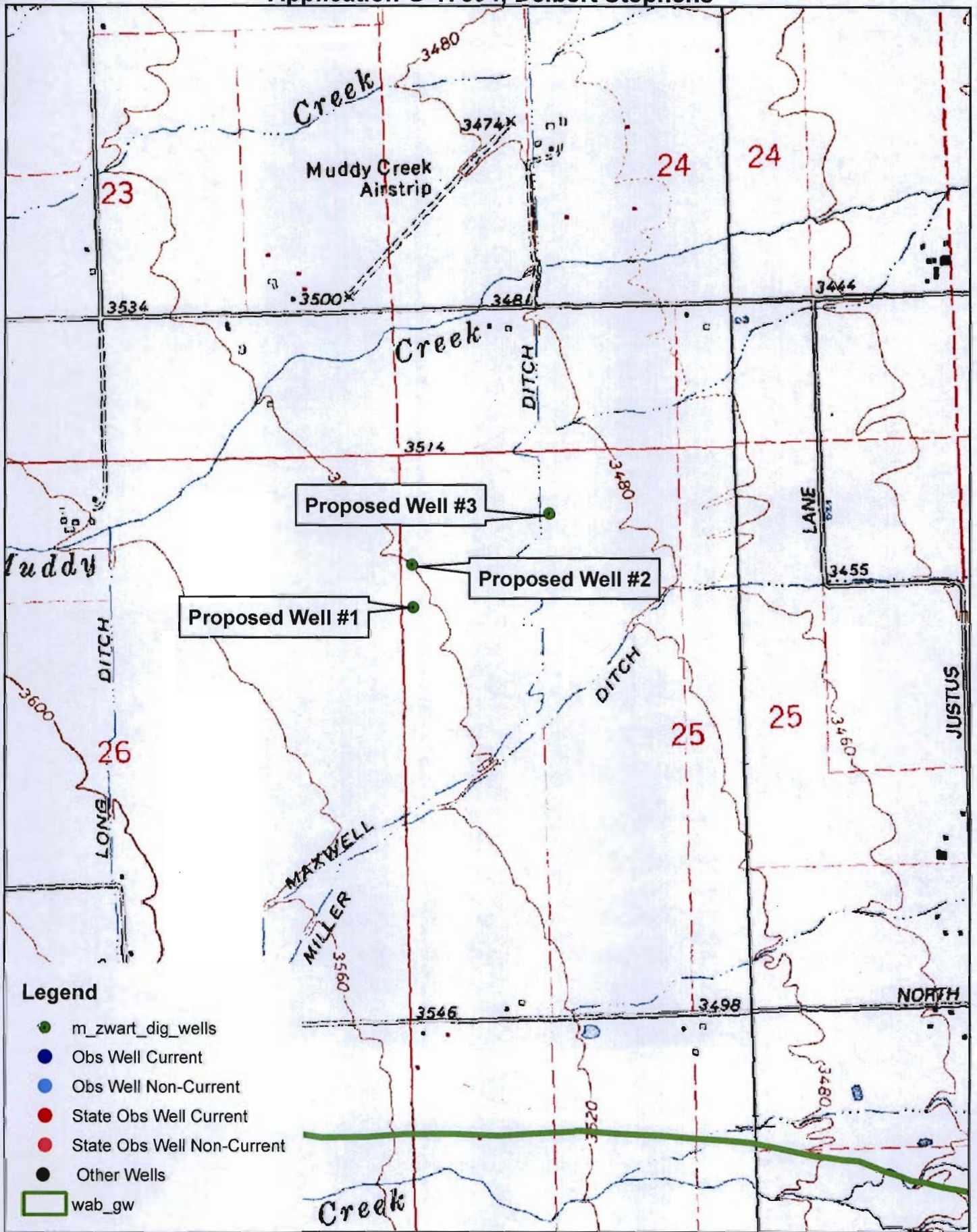
Work started 10-11 1982 Completed 10-13 1982  
Date well drilling machine moved off of well 10-14 1982

**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] Tracy Jensen Date 10-14-82  
(Drilling Machine Operator)

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 DENNIS BILLING  
(Person, firm or corporation) (Type or print)  
Address SUMMITER STAGE BALISEL, OR  
[Signed] Tracy Jensen  
(Water Well Contractor)  
Contractor's License No. .... Date 10-14 1982

Application G-17594, Delbert Stephens



Legend

- m\_zwart\_dig\_wells
- Obs Well Current
- Obs Well Non-Current
- State Obs Well Current
- State Obs Well Non-Current
- Other Wells
- wab\_gw

