

TO: Water Rights Section August 22 1997
 FROM: Groundwater/Hydrology Section Marc A Norton
 SUBJECT: Application G- 14344 Reviewer's Name

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.

2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ___ will, or _____ have the potential for substantial interference with the nearest
 - b. ___ will not _____ surface water source, namely _____; or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) 7B;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
 - d. ___ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. ___ will, or _____ likely be available in the amounts requested without injury to prior rights
 - b. ___ will not _____ and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7B 7C;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or

4.
 - a. ___ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ___ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. ___ The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: This review supersedes the 6/30/97 for wells #2 and #3. The modification was based on a change in the application & well location.

14344

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application 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) _____
-
6. THE WELL construction deficiency:
- a. ___ constitutes a health threat under Division 200 rules;
 - b. ___ commingles water from more than one groundwater reservoir;
 - c. ___ permits the loss of artesian head;
 - d. ___ permits the de-watering of one or more groundwater reservoirs;
 - e. ___ other: (specify) _____
-
7. THE WELL construction deficiency is described as follows: _____
-
8. THE WELL a. ___ was, or constructed according to the standards in effect at the time of
b. ___ was not original construction or most recent modification.
c. ___ I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199__.

(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__.

(Signature)

Input Data:

Variable	Name	Minimum	"Best"	Maximum	Unit
Well Owner or Well Number	Well		Jackson		
X Coord. for X-Section (Head Distribution)	x		0		[ft]
Perpendicular Distance From Well to Stream	a		1,000		[ft]
Net Steady Pumping Rate	Q		700		[gpm]
Hydraulic Conductivity	K	100	225	350	[gpd/ft*ft]
Aquifer Thickness	b	45	45	45	[ft]
Well Depth	d		150		[ft]
Storativity	S		0.20000		
Effective porosity	n		0.20000		
Hydr. Grad. Perpend. to Stream (must be > 0)	i	0.00095	0.00095	0.00095	
Time Since Pumping Started	time		30.00		[days]

Run Stream Depletion

Quit Stream Depletion

Output Data:

General Output:

Transmissivity	T	4,500	10,125	15,750	[gpd/ft]
Hydraulic Conductivity	K	100	225	350	[gpd/ft*ft]
		13	30	47	[ft/day]
		4.69E-05	1.06E-04	1.64E-04	[m/s]
Average linear velocity	ALV	0.06	0.14	0.22	[ft/day]
		23.12	52.02	80.92	[ft/yr]
Ambient Flux at River per Foot	dQ	0.0030	0.0067	0.0104	[gpm/ft]

Transient Stream Depletion Output:

k	SDTr_k	2.7704	1.2313	0.7915	
Transient Stream Depletion (Theis/Jenkins)	SDTr	2%	12%	21%	
Transient Induced Infiltration (Theis/Jenkins)	IITr				

TO: Water Rights Section

FROM: Groundwater/Hydrology Section

Reviewer's Name

SUBJECT: Application G-14344

Well 2 Proposed

June 30 1997

Man A. Roston

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Willamette Basin rules, one or more of the proposed POA's is ~~is~~ within 1/4 mile of a surface water source (UnNamed Trib to Oak Creek) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. will, or have the potential for substantial interference with the nearest
 - b. will not surface water source, namely UnNamed Trib to Oak Creek or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) _____;
 - ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or
 - d. will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. will, or likely be available in the amounts requested without injury to prior rights
 - b. will not and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
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4.
 - a. THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. The permit should allow groundwater production only from the _____ groundwater reservoir between approximately _____ ft. and _____ ft. below land surface;
 - d. Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: This review supersedes the 11/29/96 review for well #2

G-14344

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application 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) _____
6. THE WELL construction deficiency:
- a. ___ constitutes a health threat under Division 200 rules;
 - b. ___ commingles water from more than one groundwater reservoir;
 - c. ___ permits the loss of artesian head;
 - d. ___ permits the de-watering of one or more groundwater reservoirs;
 - e. ___ other: (specify) _____
7. THE WELL construction deficiency is described as follows: _____
8. THE WELL
- a. ___ was, or _____ constructed according to the standards in effect at the time of
 - b. ___ was not _____ original construction or most recent modification.
 - c. ___ I don't know if it met standards at the time of construction.

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199____
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199____
(Signature)

TO: Water Rights Section

Nov 29, 1996

FROM: Groundwater/Hydrology Section

Marc A Norton

Reviewer's Name

SUBJECT: Application G- 14344

Well 3 - Proposed

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE _____ Basin rules, one or more of the proposed POA's is/is not within _____ feet/mile of a surface water source (_____) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. ___ will, or _____ have the potential for substantial interference with the nearest
 - b. will not surface water source, namely Unamed trib to Oak Ck & Little Oak Creek OR
 - c. ___ will if properly conditioned, adequately protect the surface water from interference:
 - i. ___ The permit should contain condition #(s) _____;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
 - d. ___ will, with well reconstruction, adequately protect the surface from substantial interference.

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. ___ will, or _____ likely be available in the amounts requested without injury to prior rights
 - b. ___ will not and/or within the capacity of the resource; or
 - c. will if properly conditioned, avoid injury to existing rights or to the groundwater resource:
 - i. The permit should contain condition #(s) 7B, 7C;
 - ii. ___ The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. ___ The permit should be conditioned as indicated in item 4 below; or
4.
 - a. ___ THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. ___ The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. The permit should allow groundwater production only from the alluvial groundwater reservoir ~~between approximately _____ ft and _____ ft below land surface~~
 - d. ___ Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. ___ One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: This review supersedes the 10/5/96 review. Modifications were made based on additional information

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

5. THE WELL which is the point of appropriation for this application 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) _____

6. THE WELL construction deficiency:
- a. ___ constitutes a health threat under Division 200 rules;
 - b. ___ commingles water from more than one groundwater reservoir;
 - c. ___ permits the loss of artesian head;
 - d. ___ permits the de-watering of one or more groundwater reservoirs;
 - e. ___ other: (specify) _____

7. THE WELL construction deficiency is described as follows: _____

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

RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
"No water may be appropriated under terms of this permit until the well(s) has been repaired to conform to current well construction standards and proof of such repair is filed with the Enforcement Section of the Water Resources Department."
- B. ___ I recommend withholding issuance of the permit until evidence of well reconstruction is filed with the Enforcement Section of the Water Resources Department.
- C. ___ REFER this review to Enforcement Section for concurrence.

THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

I concur in G/H's recommendation A or B above relating to conditioning or withholding the permit
_____, 199__
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__
(Signature)

TO: Water Rights Section

Nov 29, 1996

FROM: Groundwater/Hydrology Section

Marc A. Norton

Reviewer's Name

SUBJECT: Application G- 14344

Well 2 - Proposed

GROUNDWATER/SURFACE WATER CONSIDERATIONS

1. PER THE Willamette Basin rules, one or more of the proposed POA's is ~~is~~ within 1/4 ~~1/2~~ mile of a surface water source (UnNamed trib to Oak Creek) and taps a groundwater source hydraulically connected to the surface water.
2. BASED UPON OAR 690-09 currently in effect, I have determined that the proposed groundwater use
 - a. will, or have the potential for substantial interference with the nearest
 - b. will not surface water source, namely UnNamed trib to Oak Cr. or
 - c. will if properly conditioned, adequately protect the surface water from interference:
 - i. The permit should contain condition #(s) _____;
 - ii. The permit should contain special condition(s) as indicated in "Remarks" below;
 - iii. The permit should be conditioned as indicated in item 4 below; or
 - d. will, with well reconstruction, adequately protect the surface from substantial interference.

other option

GROUNDWATER AVAILABILITY CONSIDERATIONS

3. BASED UPON available data, I have determined that groundwater for the proposed use
 - a. will, or likely be available in the amounts requested without injury to prior rights
 - b. will not and/or within the capacity of the resource; or
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 - a. THE PERMIT should allow groundwater production from no deeper than _____ ft. below land surface;
 - b. The permit should allow groundwater production from no shallower than _____ ft. below land surface;
 - c. The permit should allow groundwater production only from the alluvial groundwater reservoir ~~located approximately _____ ft. and _____ ft. below land surface;~~
 - d. Well reconstruction is necessary to accomplish one or more of the above conditions.
 - e. One or more POA's commingle 2 or more sources of water. The applicant must select one source of water per POA and specify the proportion of water to be produced from each source.

REMARKS: The proposed well 2 is located at 400 feet from an unnamed tributary to Oak Creek. The geologic information from Well No 1 indicated that ground water is shallow/alluvial and likely to be impacted. A deeper well may be allowed depending on the geology at the site. If a rough drill log on test well were drilled, the information could be used to properly condition the use of well 2 and possibly special construction conditions.

(Well Construction Considerations on Reverse Side)

This review supersedes the 10/15/96 review. Modifications were made based on additional information (well log #1)

WELL CONSTRUCTION (If more than one well doesn't meet standards, attach an additional sheet.)

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_____, 199__
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__
(Signature)

RECEIVED
 JUL - 5 1962
 LINN
 10526
 G-2566

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

WATER WELL REPORT

STATE OF OREGON
 (Please type or print)

State Well No. 12/3W-121
 State Permit No. _____

(1) OWNER:

Name Glenn L. Jackson
 Address 117 Greenway Circle
Medford Ore.

(2) LOCATION OF WELL:

County Linn Driller's well number _____
NE 1/4 NE 1/4 Section 12 T. 12 S. R. 3 W. W.M.
 Bearing and distance from section or subdivision corner _____

(3) TYPE OF WORK (check):

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

PROPOSED USE (check):

Domestic Industrial Municipal
 Irrigation Test Well Other

(5) TYPE OF WELL:

Rotary Driven
 Cable Jetted
 Dug Bored

(6) CASING INSTALLED:

Threaded Welded
10" Diam. from 0 ft. to 125-6 ft. Gage 279
 " Diam. from _____ ft. to _____ ft. Gage _____
 " Diam. from _____ ft. to _____ ft. Gage _____

(7) 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.
 _____ perforations from _____ ft. to _____ ft.
 _____ perforations from _____ ft. to _____ ft.

(8) SCREENS:

Well screen installed Yes No

Manufacturer's Name _____
 Model No. _____
 Slot size _____ Set from _____ ft. to _____ ft.
 Slot size _____ Set from _____ ft. to _____ ft.

(9) CONSTRUCTION:

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

(10) WATER LEVELS:

Static level 2 ft. below land surface Date 7/2/62
 Artesian pressure _____ lbs. per square inch Date _____

(11) WELL TESTS:

Drawdown is amount water level is lowered below static level
 Was a pump test made? Yes No If yes, by whom? R.M. Wade C
 Yield: 720 gal./min. with 70 ft. drawdown after 16 hrs.
 " 720 gal min last 6 hrs of 24 hrs."
 " with 70ft. drawdown all pump would do
 Bailor test gal./min. with ft. drawdown after hrs.
 Artesian flow _____ s.p.m. Date _____
 Temperature of water _____ Was a chemical analysis made? Yes No

(12) WELL LOG:

Diameter of well below casing 10"
 Depth drilled 157 ft. Depth of completed well 149 ft.
 Formation: Describe by color, character, size of material and structure, and show thickness of aquifers and the kind and nature of the material in each stratum penetrated, with at least one entry for each change of formation.

MATERIAL	FROM	TO
Top Soil	0	5
Cement sand & gravel	5	25
Brown clay & large boulders	25	45
Brown clay & gravel	45	55 ×
Water 55 gal min.	45	55
Broken blue rock	55	75
Brown sand & gravel 15gpm.	75	81 ×
Broken black lime	81	105
Black sand break water	105	128 ×
Brown mud, sand and gravel black water	128	135 ×
Black lime	135	157

$SC = 10 \text{ GPM/ft} = T_d \times 1 \times 10^4$
 $10,000 \text{ gpm/ft}$

$R = 222 \quad \frac{10,000}{45'}$

Work started 6/13 1962. Completed 6/26 1962
 Date well drilling machine moved off of well 7/2 1962

(13) PUMP:

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

Water Well Contractor's Certification:

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

NAME W.E. Pyle Drilling Co.
 (Person, firm or corporation) (Type or print)
 Address 1875-9th St. Lebanon Ore.

Drilling Machine Operator's License No. 216
 [Signed] Ward E. Pyle
 (Water Well Contractor)
 Contractor's License No. 216 Date 7/2, 1962

TO: Water Rights Section

10/15, 1996

FROM: Groundwater/Hydrology Section

Man a Norton
Reviewer's Name

SUBJECT: Application G-14344

GROUNDWATER/SURFACE WATER CONSIDERATIONS

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REMARKS: _____

14344

(Well Construction Considerations on Reverse Side)

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RECOMMENDATION:

- A. ___ I recommend including the following condition in the permit:
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THIS SECTION TO BE COMPLETED BY ENFORCEMENT PERSONNEL

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_____, 199__
(Signature)

I do not concur in G/H's recommendation A or B above relating to conditioning or withholding the permit for the following reasons: _____

_____, 199__
(Signature)

**Water Right Conditions
Tracking Slip**

Groundwater/Hydrology Section

FILE # G-14344

ROUTED TO: W.R.

TOWNSHIP/

RANGE-SECTION: 125/2w-6

CONDITIONS ATTACHED? yes no

REMARKS OR FURTHER INSTRUCTIONS:

Hydraulic Connection + Insufficient
Supply

Reviewer: Mark A. Koston

WATER RESOURCES DEPARTMENT MEMORANDUM

TO: Groundwater/Hydrology
FROM: Marc Norton
SUBJECT: Groundwater Application G- 14344

Date 10/15/96

Applicants(s) seek ~~1756~~ 1378 gpm (3.07 cfs) from ~~2~~ 2 wells in the Williamette basin
Jackson Farms Irr. 11/29/96
Glen Ford

Pertinent 7 1/2 - minute quads Lebanon

Well 1 WRD# _____ T 12S R 3W S 12 QAAA County Linn

WELL Dropped from Application
G-2506
File Noted
12/5/30
12/6/7

Legal Description _____
Well is 750 ft from Un Named Trib (river/stream)
Well is 1500 ft from Oak Creek (river/stream)
Well Elevation 300 ft River/Stream elevation 290 ft.
Well Elevation - River/Stream elevation ± 10 ft.
Well depth Unknown 180 ft SWL 0.9 ft on _____
Sealed to _____ ft Depth first water found _____ ft
Cased to 140 ft Perforations/screens _____ ft
Lined to _____ ft Perforations/screens _____ ft
Well test and types dd to 35'
(Confined/Semi-confined/Unconfined) Direct hydraulic connection? YES / NO
Potential to cause substantial interference? YES

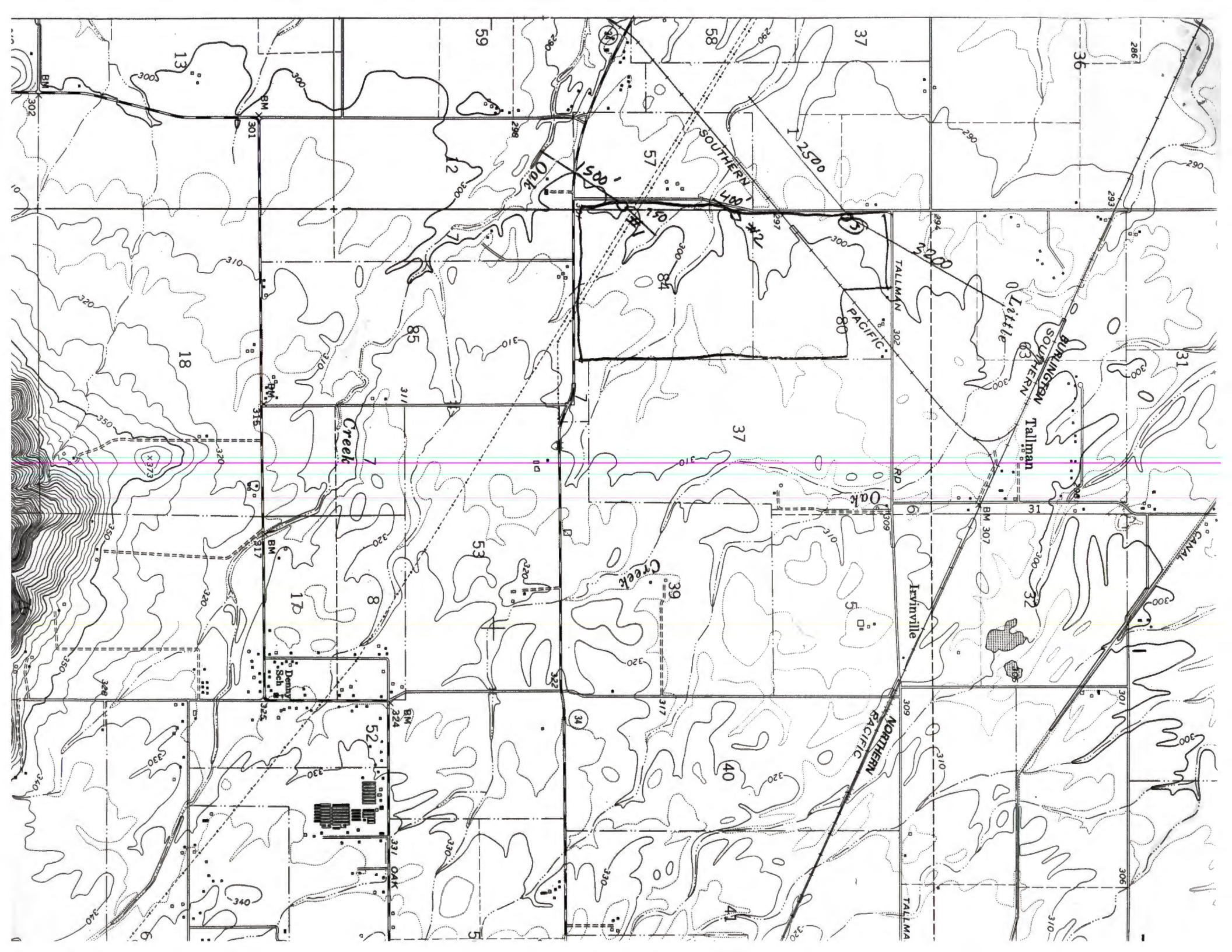
Well 243 WRD# _____ T 12S R 2W S 6 QQ County Linn

Legal Description _____
2 Well is 400 ft from Un Named Trib to Oak Creek (river/stream)
3 Well is 25-3200 ft from Un Named Trib & Little Oak Creek (river/stream)
Well Elevation 300 ft River/Stream elevation 290 ft.
Well Elevation - River/Stream elevation ± 10 ft.
Well depth Unkown ft SWL _____ ft on _____
Sealed to _____ ft Depth first water found _____ ft
Cased to _____ ft Perforations/screens _____ ft
Lined to _____ ft Perforations/screens _____ ft
Well test and types _____
(Confined/Semi-confined/Unconfined) Direct hydraulic connection? YES / NO
Potential to cause substantial interference? YES

Conditioned water rights in area: _____
Other nearby water rights of record: _____
Density of nearby wells: _____

Comments: No Information was submitted concerning the wells. The Geology indicated that they could be completed in basalt or alluvial - Assume worst case

References Used: GW Report No 25 - Marine Sediments For Well Shows well in similar location regarding well #1 + log



County: Linn

Quad name & #: Lebanon 137

Tangent 238

REVIEW CHECKLIST

FOR G- 14344

- Appropriate parts of the stream index
- Estimated number of wells within a one-mile radius & identified types.
- State Observation wells within a five-mile radius.
- Verify that well log is in file. If not provide one. ✓ none found
- List groundwater permits within a five-mile radius with extraordinary conditions.

Number of wells: 3

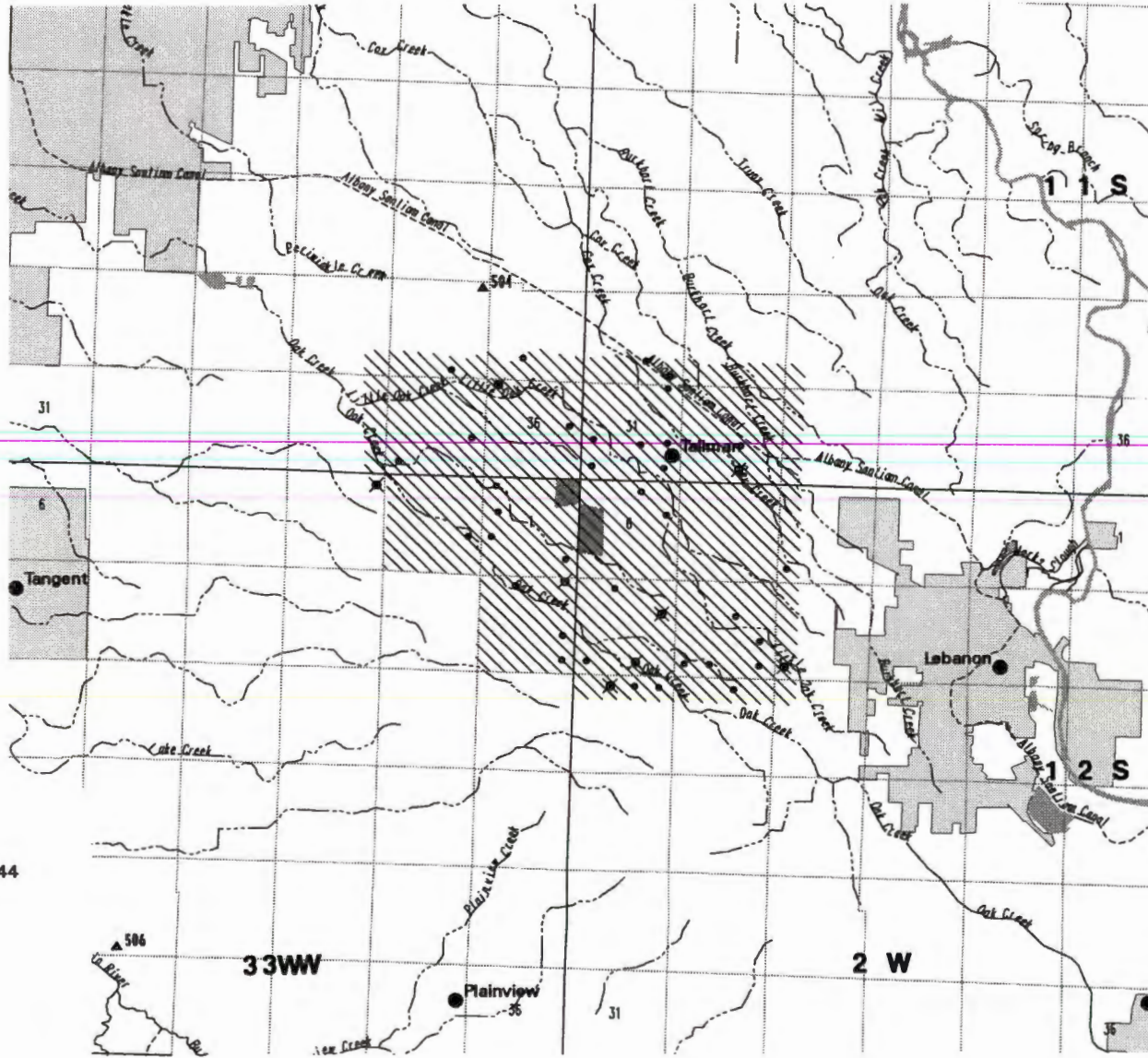
Well location: 125? 2W / 10+7
125 / 3W / 1+12

APPLICATIONS WITH PERMIT CONDITIONS:

- G 13258
- 13411
- 13151
- 13314
- 12916

Wells in the vicinity of application G 14344

- Application well(s) in this 1/4-1/4 section
- ◻ Well(s) identified in this section from OWRD's well log database within 1 mi. radius of application well(s)
- Well(s) identified in this 1/4-1/4 section from OWRD's well log database within 1 mi. radius of application well(s)
- ✕ Permitted well(s) in this 1/4-1/4 section within 1 mi. radius of application well(s)
- ▲ OWRD Observation well and well-id within 5 mi. radius of application well(s)
- Critical GW Area
- ▨ Regulated GW Area



WELLS WITHIN 1 MILE OF G 14344

DO 36
IM 2
IR 7

PERMITTED WELLS WITHIN 1 MILE OF APPLICATION G 14344

PERMIT	T/R/S/QQ	USE	RATE	UNITS
GR 89	11.00S 3.00W36NWNW	IR	0.2344	C
G 5822	11.00S 2.00W32SWSE	IM	0.8900	C
GR 2988	12.00S 3.00W 3NENE	IR	0.3348	C
G 2375	12.00S 3.00W12NENE	IR	0.8400	C
G 4464	12.00S 2.00W 7SENE	IR	0.9500	C
G 9702	12.00S 2.00W 7SWSE	IR	0.0600	C
GR 17	12.00S 2.00W 9SWSW	IR	0.2679	C
G 1212	12.00S 2.00W18NENW	IR	0.3000	C