

Water Resources Department

North Mall Office Building 725 Summer Street NE, Suite A Salem, OR 97301-1271 503-986-0900 FAX 503-986-0904

May 29, 2007

David Casper 1154 Abbott Road Walla Walla, Washington 99362

Dear David Casper:

The Water Resources Department has received your application to use water. At this time however, we are unable to accept your application, because the minimum filing requirements are not met according to the Oregon Administrative Rules (OAR 690-310-0040 and 0050).

We are hereby returning the incomplete application and the fees submitted. Please return the application, the required information, and this checklist, so the Department may begin processing your application in a timely manner. Your application must be completely filled out. You should be aware that as of June 1, 2007, Water Right application fees will be increasing.

This review is based only on the completeness of your application. Any determination of water availability, compliance with basin plan rules, or any other water related issues has not been made.

Should you have any questions, please do not hesitate to contact me at the address above or by telephone at 503-986-0817.

Sincerel

Jerry Sauter

Water Rights Program Analyst

Cc: OWRD Fiscal

Standard Application Completeness Checklist Minimum Requirements (OAR 690-310-0040) (ORS 537.400)

Application	Township
Priority Date	Range
Use(s)	Section
Rate	POD Loc.
County	POU Loc.
expired agreement for stored was	the stored water component filed out, including a non- ater must be included. (ORS 537.400) I the land, the affected landowner's name and ted.
O If applicant does not own all	the land, a statement declaring the existence of either easement permitting access to land crossed by the
Groundwater development section (Preport.	Page 2, Section 3 and/or Page 3, Section 2) or a well log
Proposed use of water. If supplemen	tal, list primary water right acreage if applicable.
Enclosed Supplemental Form for each	ch proposed use.
Form I (Irrigation)	O Form M (Municipal or Quasi-Municipal)
O Form R (Mining)	O Form Q (Commercial or Industrial)
O Spring Description Sheet	
O Amount of water from each source is or acre feet (AF) How Many Period of use	n gallons per minute (GPM), cubic feet per second (CFS), WEUS? IFONLY ONE, INDICATE WHICH

Resource Protection Section (Page 6, Section	n 5) .
Project schedule (If system is already compl	eted, indicate "existing").
For reservoir applications storing more than feet, preliminary plans and specifications for	9.2 acre feet, and a dam height of more than 10 dam and impoundment are required.
O If the above is statement is checked, the	map must be prepared by a CWRE.
All applicants (or the authorized agent with t corporation), must sign the application in inl	.
You must include a Legal description of the pounds, or other government survey descriptible insurance policy can provide this inform prepared by a title company. The Department	tion. A copy of the deed, land sales contract or aution, or you may submit a lot book report
A completed Land-Use Form or receipt signed to the completed Land-Use Form or receipt signed to the complete that the co	be within the past 6 months.
Township, Range, Section	O Location of main canals, ditches, pipelines
	or flumes
O Place of use, 1/4, 1/4's and tax lot clearly identified	
O Place of use, 1/4, 1/4's and tax lot	or flumes O Even map scale not less than 4" = 1 mile
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized	or flumes O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.)
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if	or flumes O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture	or flumes O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture O Reference corner on map	O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol O Other
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture O Reference corner on map O Each point of diversion coordinate	O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol O Other
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture O Reference corner on map O Each point of diversion coordinate O Fees: Amount of water requested 360 Base Fee \$ 360	O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol O Other Before 6/1/07 After 6/1/07 Total Exam Fee \$ 500/
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture O Reference corner on map O Each point of diversion coordinate O Fees: Amount of water requested Base Fee \$ 360 1st CFS/AF 200	O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol O Other Before 6/1/07 After 6/1/07 Total Exam Fee \$ 500/
O Place of use, 1/4, 1/4's and tax lot clearly identified O Location of each diversion point well or dam by reference to a recognized public land survey corner O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture O Reference corner on map O Each point of diversion coordinate O Fees: Amount of water requested 36 Base Fee \$ 360 1st CFS/AF 200	O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.) O North Directional Symbol O Other Before Union After 6/1/07 Total Exam Fee \$ 600/ Total Paid \$ 600/

MAP - does not meetcontena scale +/R/s POA Cocation Acres per 14 1/4.

DENTIFY Which Pat be used - one or proposed?

needs legal reeds L.U. approval

Application Checklist

0	Enclosed Supplemental Form for each propo	osed use.
	O Form I (Irrigation) You will need to	list the number of acres to be irrigated.
0	feet (AF) You will need to identify how man	as per minute (GPM), cubic feet per second (CFS), or acre by wells are proposed, and how much from each well. If which well. If for two wells, well construction information
0	other government survey description. A cop	property involved that includes a metes and bounds, or by of the deed, land sales contract or title insurance policy bimit a lot book report prepared by a title company. The x bill.
0	A completed Land-Use Form or receipt sign officials. Date of signature must be within t	ed and dated by the appropriate planning department the past 6 months.
0	The map must meet all the minimum require	ements of OAR 690-310-0050.
	O Place of use, 1/4, 1/4's and tax lot clearly identified	O Even map scale not less than 4" = 1 mile (example: 1" = 100 ft, 1" = 200 ft, etc.)
	O Location of each diversion point well or dam by reference to a recognized public land survey corner	O North Directional Symbol
	O Number of acres per 1/4, 1/4, if irrigation, nursery, or agriculture	O Other
	O Reference corner on map	
	O Each point of diversion coordinate	
0	Fees: Amount of water requested 1.3 cfs	
Fe	es as of June 1, 2007	
	Base Fee \$500	
	1st CFS/AF \$200	
	1 Addtn'l cfs@ \$100 = \$100 1 Addtn'l well @ \$200 = \$200	
	Reviewed by: Anita Huffman	Date: May 25, 2007

Reviewed by: Anita Huffman



Application for a Permit to Use Ground Water

Please type or print in dark ink. If your application is found to be incomplete or inaccurate, we will return it to you. If any requested information does not apply to your application, insert "n/a." Please read and refer to the instructions when completing your application. A summary of review criteria and procedures that are generally applicable to these applications is available at www.wrd.state.or.us/OWRD/PUBS/forms.shtml.

	1. APPLICANT INFOR	MATION	_
A. Individuals			
Applicant: DAV io		CASPE	R
Mailing address: 154	ABBOTT R	- 1,384	
Waning address: 113	() ()		007/ 5
WOMA WAY	A WA	}	<u> </u>
WOMA WIND Only Phone: (509) 529 - 50 Home *Fax:	747 (509)52	0-520	5 (ce 11)
Home	Work	1 .0.	Other
*Fax:	*E-Mail addre	ss: <u>dau LXC</u>	casper@charter
P. Ouranizations			
B. Organizations			
(Corporations, associations, firms, partne	erships, joint stock companies, co	operatives, public d	and municipal corporations)
Name of organization:	IN CASPER	RANCH	Inc.
Name and title of person applying:			
Name and tide of person applying.	T NO 113 CN	spert)	· Resi
Mailing address of organization: _			
		-	
Oby		State	Z _p
Phone:		Evening	
*Fax:	*E-Mail addre	ss:	
* Optional information			RECEIVED
opilolas nyormanon			MAY 25 2007
			WATER RESOURCES DEPT SALEM, OREGON
	For Department Use	Table Volume	
App. No.	Permit No.		Date
App. No.	For Department Use Permit No.		

Do you own all the land where you propose to divert, transport, and use water?
Yes (Skip to section 3 "Ground water Development.")
No (Please check the appropriate box below.)
■ I have a recorded easement or written authorization permitting access.
■ I do not currently have written authorization or easement permitting access.
Written authorization or an easement is not necessary, because the only affected lands I do not own are state-owned submersible lands, and this application is for irrigated and/or domestic use only (ORS 274.040).
You must provide the legal description of: (1) the property from which the water is to be diverted, (2) any property crossed by the proposed ditch, canal or other work, and (3) any property on which the water is to be used as depicted on the map.
List the names and mailing addresses of all affected landowners.
3. GROUND WATER DEVELOPMENT A. Well Information Number of well(s): Name of nearest surface water body: Sirch Creek
Distance from well(s) to nearest stream or lake: 1) /4 wile
2)
If distance from surface water is less than one mile, indicate elevation difference between nearest surface water and well head. 1)
2) 4)
B. Well Characteristics Wells must be constructed according to standards set by the Department for the construction and maintenance of water wells. If the well is already constructed, please enclose a copy of the well constructor's log and the well ID number, if available, for each well with this application. Identify each well with a number corresponding to the wells designated on the map and proceed to section 4 of the form. If the well has not been constructed, or if you do not have a well log please complete the following:
Well(s) will be constructed by:
Address:

2. PROPERTY OWNERSHIP

Ground Water/2

Completion date:

Please provide a description of your well development. (Attach additional sheets if needed.)

Well No.	Diameter	Type and size of casing	No. of feet of casing	Intervals casing is perforated (in feet)	Seal depth	Est. depth to water	Est. depth to water bearing stratum	Type of access port or measuring device	Total well depth
				_					

Note: Well numbers in this listing must correspond to well locations(s) shown on accompanying map.

If well log is not available, or well is not yet constructed, you must provide: proposed total depth, depth of casing and seal, and the anticipated perforation and open intervals.

C. Artesian Flows If your water well is flowing artesian, describe your water control and conservation works:
4. WATER USE
Please read the instruction booklet for more details on "type of use" definitions, how to express how much water you need and how to identify the water source you propose to use. You must fill out a supplemental form for some uses as they require specific information for that type of use.
A. Type(s) of Use(s)
See list of beneficial uses provided in the instructions.
 If your proposed use is domestic, indicate the number of households to be supplied with water:
If your proposed use is irrigation, please attach Form I
• If your proposed use is mining, attach Form R

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Ground Water/3

• If your proposed use is municipal or quasi-municipal, attach Form M

• If your proposed use is commercial/industrial, attach Form Q

WATER RESOURCES DEPT SALEM, OREGON

+ PLEASE SEE WELL PERMIT G-15862

B. Amount of Water	R	A mo	unt	Λf	Wa	tei
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Provide the production rate in gallons per minute (gpm) and the total annual amount of water you need from each well, from each source or aquifer, for each use. You do not need to provide source information if you are submitting a well log with your application.

Condensation of the section of	Source or squifer	Type of use	Total rate of water requested (in gpm)	Total annual quantity (in gallons)	Production rate of well (in gpm)
	A WELL IN WAMA WAMA RIVERBASA	* BRENGATION	*	X	800 tapm Gobably 1000
				_	
Vhat is the n	n Rate of Use Request naximum, instantaneou our application will be based	is rate of water that will	be used?	o cu.ft/se	<u>c</u> *
. Period of adicate the transfer seasonal i	Use time of year you propos uses like irrigation give date	se to use the water: s when water use would begi	1/(-10/1)	rch 1-October 31.)	1
. Acreage fyou will be umber of ac	e applying water to land	d, please give the total	/0니,	_	
		5. WATER MANAG	EMENT		
. Diversion		mp water from your well	(s)?		
Vhat equipm					
· · ·	_	nd pump type): WKM	myn pot the	is time /	Still in
Pun	_	nd pump type): WKM	July 2400	is time /	Still in
Pun Oth	np (give horsepower an er means (describe):		run of the	is teme/	Still in
Pun Other Transport How will you	np (give horsepower an er means (describe):	ur place of use?	ring stag	is teme/	Still in
Pun Othe Transpor How will you	np (give horsepower an er means (describe): t u transport water to you ch or canal (give average	ur place of use?			
Pun Oth Transpor How will you Ditc Wi	np (give horsepower and er means (describe): t u transport water to you ch or canal (give average idth the ditch or canal to be	ar place of use? ge width and depth): Depth lined? Yes	™ No		
Pun Oth R. Transpor How will you Ditc Wi	np (give horsepower and er means (describe): t u transport water to you ch or canal (give average idth the ditch or canal to be	ur place of use? ge width and depth): Depth	™ No		

STATE OF OREGON

COUNTY OF UMATILLA

PERMIT TO APPROPRIATE THE PUBLIC WATERS

THIS PERMIT IS HEREBY ISSUED TO

DAVID CASPER 1154 ABBOTT RD WALLA WALLA, WA 99362

509-529-5347

The specific limits and conditions of the use are listed below.

APPLICATION FILE NUMBER: G-16291

SOURCE OF WATER: A WELL IN WALLA WALL RIVER BASIN

PURPOSE OR USE: IRRIGATION USE ON 104.7 ACRES

MAXIMUM RATE: 1.3 CUBIC FEET PER SECOND = 583.59pm

PERIOD OF USE: APRIL 1 THROUGH OCTOBER 15 = 198 days

DATE OF PRIORITY: AUGUST 9, 2004

WELL LOCATION: SE % SE %, SECTION 16, T6N, R36E, W.M.; 30 FEET NORTH & 1200 FEET WEST FROM SE CORNER, SECTION 16

The amount of water used for irrigation under this right, together with the amount secured under any other right existing for the same lands, is limited to a diversion of ONE-EIGHTIETH of one cubic foot per second and 3.0 acre-feet for each acre irrigated during the irrigation season of each year.

THE PLACE OF USE IS LOCATED AS FOLLOWS:

G total water 102,343,203 gal

SW % NE % 1.3 ACRES SE % NE % 23.4 ACRES

for 198 days

NE % SE % 40.0 ACRES SE % SE % 40.0 ACRES

= 516,884.9 gal/day

SECTION 16

= 358.9 gpm

TOWNSHIP 6 NORTH, RANGE 36 EAST, W.M.

Measurement, recording and reporting conditions:

A. Before water use may begin under this permit, the permittee shall install a meter or other suitable measuring device as approved by the Director. The permittee shall maintain the meter or measuring device in good working order.

Application G-16291

Water Resources Department

PERMIT G-15862

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What equipment will you use to	ethod apply water to your place of use? Sp	RMKLER WHEEL Lines
DAND DRIP		
Irrigation or land application me	thod (check all that apply):	
Flood	☐ High-pressure sprinkler	Low pressure sprinkler
	■ Water cannons	☐ Center pivot system
Hand lines	Wheel lines	
Siphon tubes or gated pip	e with furrows	
Other, describe		
Distribution method		
Direct pipe from source	In-line storage (tank or pond)	Open canal
need additional space, attach a se depending on crops grapes will use	e using sprinkler irrigation rather than deparate sheet. S grown-field crops drip. Field cmta	uns conservation
Indicate the anticipated dates that the fo completed, please indicate that date.	6. PROJECT SCHEDULE ollowing construction tasks should begin. If con	struction has already begun, or is
Proposed date construction will b	pegin:	
Proposed date construction will b	e completed:	
•	se will begin: <u>Upon Peccipt</u>	of permit sur fuslig
	7. REMARKS	
application question you are addressing	ion you have provided in the application, pleas ; own more water se	e do so here and reference the specific
	antipoter . As	Call com the
1 1	intaly odyncent to be able to utilise T	the swortable water
more efficiently	and bonéficially	
		ひじへと!!/と か

Ground Water/5

MAY 25 2007

8. MAP REQUIREMENTS

The Department cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the township, range, section, and quarter/quarter section of the proposed well location and place of use. The map must provide tax lot numbers. See the map guidelines sheet for detailed map specifications.



By my signature below I confirm that I understand:

- I am asking to use water specifically as described in this application.
- Evaluation of this application will be based on information provided in the application packet.
- I cannot legally use water until the Water Resources Department issues a permit to me.
- If I get a permit, I must not waste water.
- If development of the water use is not according to the terms of the permit, the permit can be canceled.
- The water use must be compatible with local comprehensive land use plans.
- Even if the Department issues a permit to me, I may have to stop using water to allow senior water right holders to get water they are entitled to, and

I swear that all information provided in this application is true and correct to the best of my knowledge:

Signature of Applicant Afmore than one applicant, all must sign.

7

Before you submit your application be sure you have;

- Answered each question completely.
- Attached a legible map which includes township, range, section, quarter/quarter and tax lot number.
- Included a Land Use Information Form or receipt stub signed by a local official.
- Included the legal description of all the property involved with this
 application. You may supply a copy of the deed, land sales contract,
 or title insurance policy, to meet this requirement:
- Included a check payable to the Oregon Water Resources Department for the appropriate amount. The Department's fee schedule can be found at www.wrd.state or.us or call (503) 986-0900.



Oregon Water Resources Department

FORM I FOR IRRIGATION WATER USE

1. Please indicate whether	you are requesting a p	rimary or supplementa	l irrigation water right.
Of Primary O Su	pplemental		
	• •	ase indicate the numbe ach type of use.	r of acres that
	Primary:	Acres	
	Secondary:	Acres	
	List the permit or cer of the primary water		·
Please list the anticipated partial season:	crops you will grow a	nd whether you will be i	irrigating them for a full or
1. <u>92Aps</u> s	🔾 Full seaso	n Partial season	(from: 4/1 to 10/15)
2. grain	🔾 Full seaso	Partial season	(from: 4/1 to 10/15)
3. Legumes	🔾 Full seaso	n @ Partial season	(from: 4/1 to 10/15)
1. 9RAPES 2. GRAIN 3. LESUMES 4. FURAGE	□ Full seaso	Partial season	(from: 4/1 to 19/15)
3. Indicate the maximum total	I number of acre-feet	you expect to use in an	irrigation season:
	3.0	acre-feet	
(1 acre-foot equals 12 i		l acre, or 43,560 cubic feet, o	or 325,851 gallons.)
4. How will you schedule you twice a week, daily?	r applications of water	? Will you be applying	water in the evenings,
•			RECEIVED
 Daily during dayting 		☐ Daily during nighttin	MAY 25 2007
Two or three times during daytime	weekly	☐ Two or three times during nighttime	weekly WATER RESOURCES DEP SALEM. OREGON
Weekly, during day	time hours	 Weekly, during night 	ttime hours
Other, explain: So	CHEDULE UNEN	one dependo	INC ON CRUPS

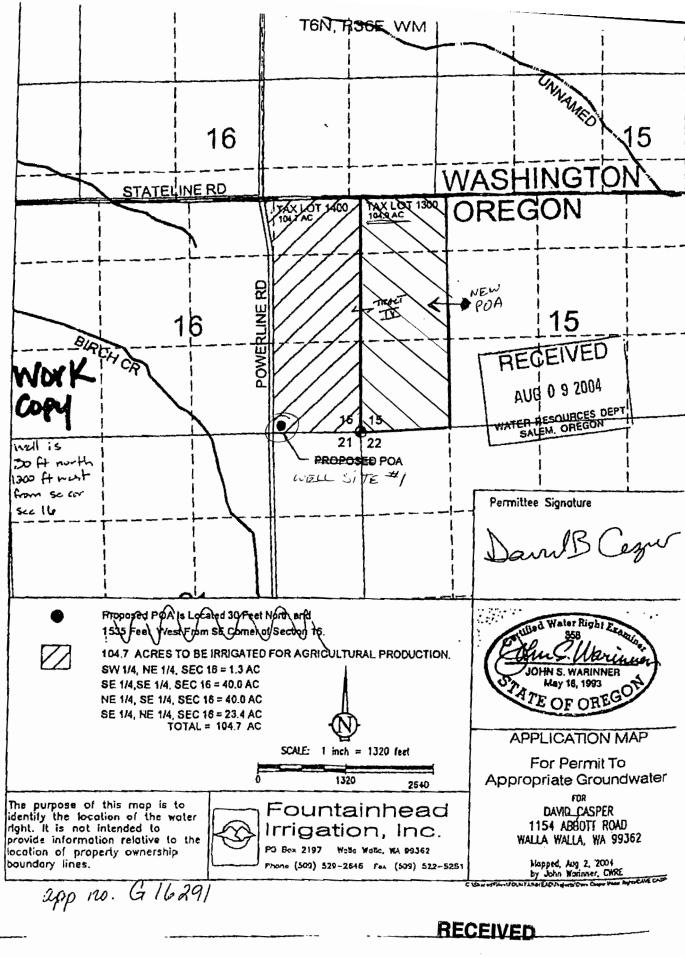
		-							
STATE C	FOREGON PPLY WELL R	EPORT			#	(WELLID)= E	72482		
fas required	by OR\$ 537 765)				,	(START CARD)			
	for completing this r								
(1) OWNER:	Casaar	We	:II Numb	er	(9) LOCATION OF				
Name David B. Address 1154 A	*				County <u>Umatilla</u> Township 6		L<	mgitude E	WM.
City Walla Wal		State WA		Zıp 99362	Section 16	SE I			W IVI.
(2) TYPE OF	WORK							Subdivision	
(3) DRILL M		Alteration (repair/recondition) Abandonment						ıd	
	Rotary Mud			(10) STATIC WATER LEVEL:					
Other AN PROPOSI	ROPOSED USE:			low land surface.		Date 11/8/	06		
Domestic			Artesian pressure		quare inch	Date			
Thermal (5) BORE HO	Livestock TION:			Depth at which water was first found unknown - mud drilled upper borel				borehole	
Special Construction approval Yes No Dept Explosives used Yes No Type						<u></u>			
Explosives used HOLE	Yes No Ty	pe SEAL	Am	ount	From ??	To	300 +/-	d Flow Rate	SWL NM
HOLE Diameter From	ı To Mater		To	Sacks or pounds	480	790	see (8)		219
20 nom 0	238 cement	1 1		83 sacks			1		- 1.0
16 nom 238	472								
12 472	683								
8 683	800				- (12) WELL LOG:				
How was sent placed: Method Other		□v & }£	, Δ β ΔC □D □E		Grour	d Elevation		·	
Backfill placed f		fit to N. Material			Material		From	T = (r	
Gravel placed for			Size of		see attached format		rioin	То	SWL
Casing: 12 Liner.		.376							
Final location of		Je.							
(7) PERFORM	ATIONS/SCREEN ns Method	13:					REC	EIVEI	0
Screens	Type		Male	rial				1	
From To	Slot size Number	Dinmeter	Tele/pipe size	Casing Liner			MAY	5 200	
							WATER RES	OURCES	DEPT
		-		- 📙 📮 📙	Owner opted agains		- IOALEN	I, OREGO	N
- 		1			responsibility associated		y &		
		1						 	_
(8) WELLTE	STS: Minimum (esting time is	l hour	•	Date started 8/8/06	Co	mpleted 12/22	2/08	
		-		Flowing	(unbonded) Water Wel				
Pump	Bailer	Air		Artesian	I certify that the work	I performed on the c	onstruction, alte	mtion, or ab	andonment
Yield gal/min		Drill stem	ot	Time	of this well is in complia Materials used and infor	noe with Oregon wat mation reported above	er supply well co	onstruction s best of my k	landards. nowledge
635	111			i hr.	and helief.	-		. 4767	_
830	162 208			add'l 2 hr	Since (A)		WWC Nu	mber 1797 Date 12/1	
Temperature of v		Depth Artesian	Flow F		(bonded) Water Well C	onstructor Cardiffee	tion	Date 121	5/00
Was a water and Did any strata co		Yes By whom _ hie for intended	use?	Too little	I accept responsibility performed on this well d performed during this tin construction standards	for the construction,	alteration, or ab dates reported a ith Oregon wate he best of my kr	above. All wer supply well nowledge and nober 649	rork I I belief.
	,				Signed Lynner	Miline	ula	Date 12/1	8/06

David B Casper - formation log

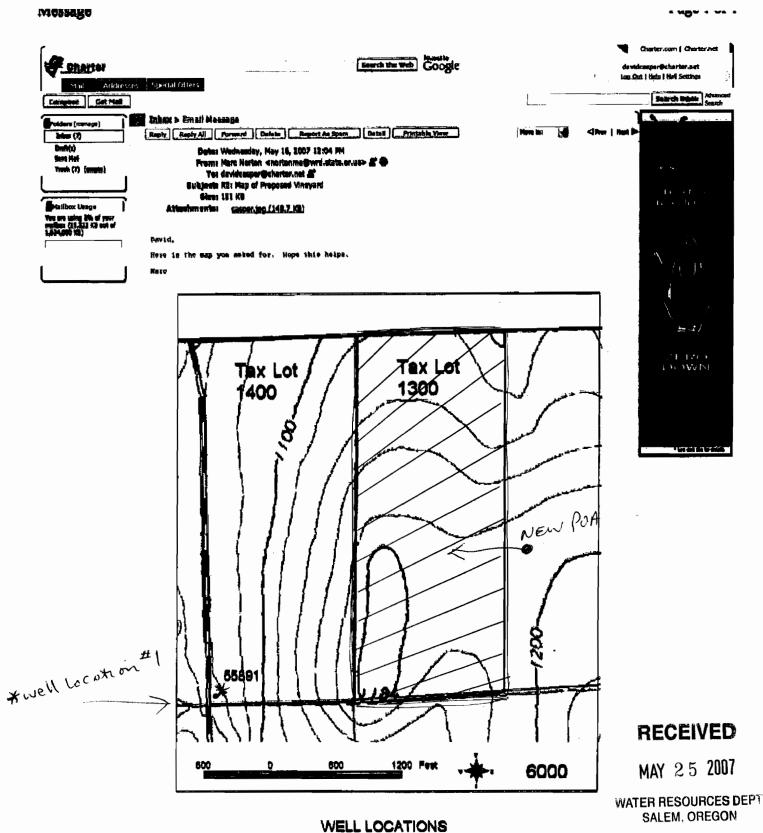
by Schneider Drilling Co.

<u>FM</u>	<u>TO</u>	DESCRIPTION	
0	1	Gravel fill	
J	9	Top soil, brown, silty loam	
9	10	Siltstone, grey, hard	
10	11	Clay, grey, soft	
H	13	Gravel, cemented (hard pan)	
13	73	Gravel & cobbles with clay, brown, medium	
73	7 5	Basalt, grey w/some brwon, hard	
75	158	Basalt, brown & grey, weathered w/some clay, brown, medium	
158	190	Basalt, brown & grey w/some red, vesicular, weathered, & some clay, brown	& green, med
190	206	Basalt, grey, broken, fractured, medium (LC zone)	
206	256	Basalt, grey, broken wgravel, 3/4-	
256	269	Basalt, grey & brown, broken	
269	276	Basalt, grey, medium-hard, fractured	
276	286	Basalt, grey & brown, broken	
286	296	Basalt, brown, medium, fractured	
296	361	Basalt, grey, very fractured	
361	378	Basalt, brown, medium, fractured, vesicular	
378	444	Basalt, grey, medium-hard, some fractures	
444	452	Basalt, grey, very fractured	
452	476	Basalt, grey, hard	
476	503	Basalt, grey, hard, some fractures	
503	517	Basalt, grey, hard, fractured	
517	522	Basalt, dark grey, medium, fractured w/clay, blue, firm	
522	535	Basalt, brown, medium, vesicular w/clay in vesicles, blue, firm	
535	561	Basalt, dark grey, hard, some fractures	
561	568	Basalt, dark grey, medium-hard, broken, weathered	
568	576	Basalt, red, soft, some vesicular w/some silt, red	
576	580	Basalt, dark grey, medium-hard, broken, weathered	
580	583	Basalt, dark grey, medium-hard	
583	597	Basalt, dark grey, medium, broken, some vesicular	
	618	Basalt, dark grey, hard, some fractures	
618	632	Basalt, brown, medium, fractured, some vesicular	
	678	Basalt, dark grey, medium, fractured	
	683	Basalt, dark grey, hard, fractured	
683		Basalt, dark grey, medium-hard, very fractured	
	751	Basalt, dark grey & brown, fractured, some broken, some vesicular	
751	7 79	Basalt, dark grey, hard, some fractures	
	780		RECEIVED
	790	Basalt, dark grey w/brown lenses, medium-hard, fractured	6 = 6007
790	800	Basalt, dark grey, medium-hard, some fractures	IAY 25 2007

WATER RESOURCES DEPT SALEM, OREGON



MAY 25 2007



WELL LOCATIONS
UMATILLA COUNTY, WATERMAN &MILTON-FREEWATER QUADS

Reply Reply All Forward Outsto Report As Span Dated Printable View Man St Ciffer | Next b