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WATER RIGHTS EXAMINATIONS

PERMIT NO. 95-8639, 95-9199, 95-9217

FOR

NORTH KOOTENAI WATER DISTRICT
KOOTENAI COUNTY, IDAHO
PROJECT NO. 11228

MAY, 2009

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IDWR BENEFICIAL USE FIELD REPORT

Form 219
6/92

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No. 95-8639, 95-9199, 95-9217

1. Owner: North Kootenai Water District Phone No. 208-772-3619

Current Address: P.O. Box 2290, Hayden, ID 83835

2. Accompanied by: See Attachment 1 EXAM DATE :

Address: _____ Phone No

Relationship to Permit Holder: See Attachment 1

3. Source: Groundwater: Rathdrum Prairie Aquifer tributary to N/A

B. OVERLAP REVIEW

1. Other water rights with the same place of use: See Table 1 in Section E

2. Other water rights with the same point of diversion: See Table 1 in Section E

C. DIVERSION AND DELIVERY SYSTEM

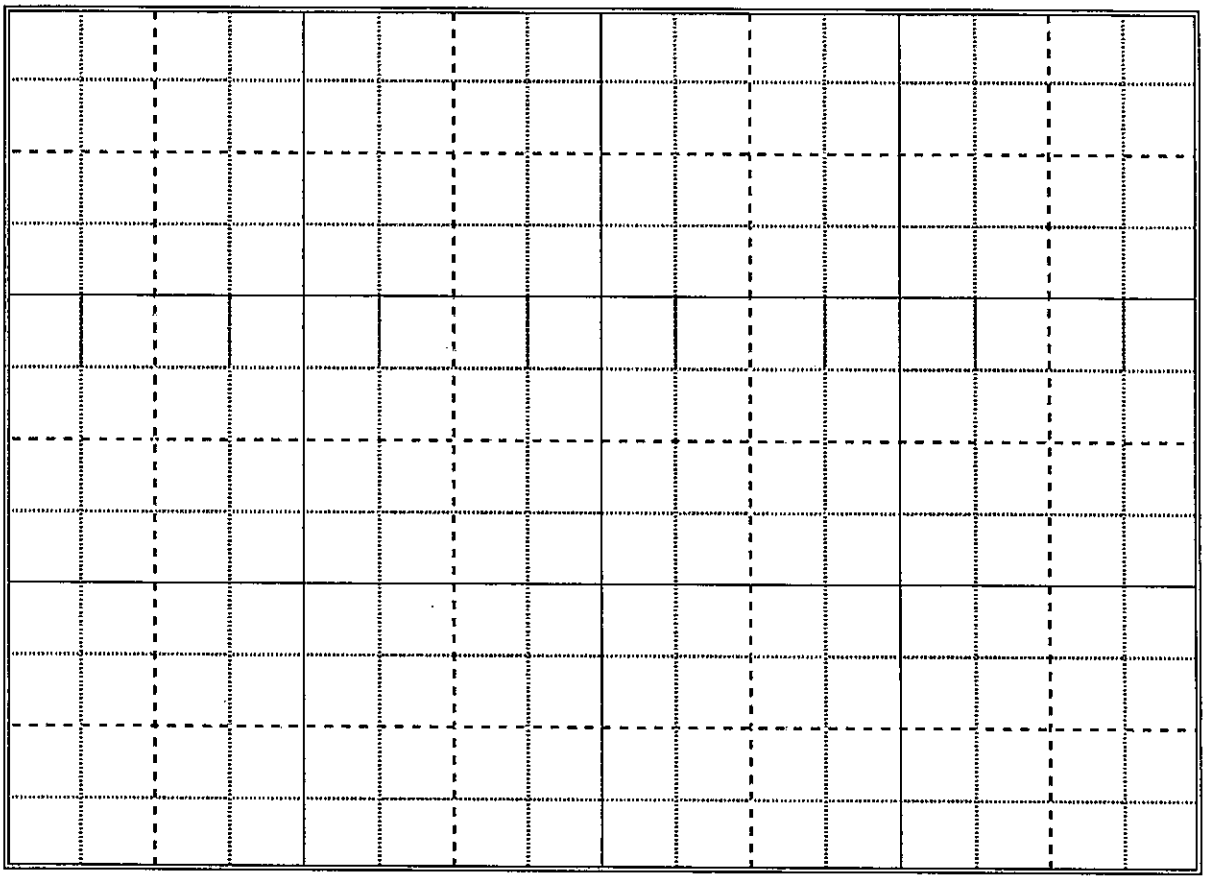
1. **Point(s) of Diversion: See Attachment 2**

Ident No.	Gov't Lot	¼	¼	¼	Sec.	Twp.	Rge.	County	Method of Determination/Remarks

2. Place(s) of Use: **See Attachment 3: District Service Area Map** Indicate Method of Determination

TWP	RGE	SEC	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	

3. **Delivery System Diagram**: Indicate all major components and distances between components. Indicate weir size/ditch size/pipe i.d. as applicable. Refer to attached system schematics



Scale: 1" = _____.

_____ Copy of USGS Quadrange Attached Showing location(s) of point(s) of diversion and place(s) of use (required).

_____ Aerial Photo Attached (required for irrigation of 10+ acres)

__X__ Photo of Diversion and System Attached

4. See Attachment 4

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

**Code to correspond with No. on map and aerial photo*

D. FLOW MEASUREMENTS

1. See Attachment 5

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. **Measurements:**

E. Narrative/Remarks/Comments

Background

North Kootenai Water District is a quasi-municipal governmental agency. The District owns and operates 16 public water systems within Kootenai County. Two of these water systems are fed by surface water sources and the remainder are fed by groundwater (the Rathdrum Prairie Aquifer).

Current Water Right Licenses Specified for NKWD Service Area

Water Right License	Beneficial Use	Diversion (cfs)	AFA
95-7138	Municipal	0.14	60.6
95-7713	Municipal	0.04	29
95-7827	Municipal	0.2	55.2
95-8522	Municipal	0.61	441.6
Total		**0.99**	**586.4**

Recommended Amendments

The recommended changes to the points of diversion can generally be summarized as follows:

1. Removal of the following points of diversion:
    a. Ohio Match 2 (permit 95-9217 only): No pump in well
2. Addition of the following points of diversion to all three permits:
    a. Ranch Valley (EO#009217)
    b. Sylte (EO#009200)
3. Amendment to legal description of the following points of diversion on all permits based on GPS data (the recommended legal description is shown in Attachment 2):
    a. GTE 1 (EO#009196)
    b. Chilco 1 (EO#005189)
    c. Echo Beach (EO#005192)

Attachment 2 is a list of all the points of diversion that we recommend be included in the licenses. The above amendments and additions have been made within this attachment.

Examinations

The water right examinations for the points of diversion associated with Permit Numbers 95-8639, 95-9199, and 95-9217 were completed in 2008 and 2009. All but one of the District's points of diversion has a permanent flowmeter[1]. The District reads these meters on a weekly basis to track production.

[1] The Echo Beach well does not have a permanent flow meter. This well pumps into an underground storage tank. Water is then boosted from the underground storage tank to the system. A permanent flowmeter is located on the discharge of the booster pumps. The diversion capacity of the well was tested by isolating the storage tank and calculating the volume of water used to fill the tank over a specified period of time.

The initial procedure for determining each point of diversion's capacity was to run the well for 5 to 10 minutes directly into the water system during "normal" conditions (average daily demand) and record the reading given by the flowmeter.

After further consideration, it was determined that in some cases this was not indicative of the source's required design capacity. In accordance with IDAPA 58.01.08 Section 501.17, a water system must have sufficient source capacity to supply the maximum daily demand plus fire suppression needs. This requirement is directly applicable to the following water systems:

- Hillside
- Twin Lakes
- Rimrock

Thus, tests on these systems were rerun with a fire hydrant open. The flowmeter for each source was again monitored for 5 to 10 minutes (until stabilization occurred) and then recorded. The results of these examinations are reported in Attachment 5 of this Examination report.

Examinations for the following points of diversion listed were not completed for the following reasons:

1. Ranch Valley (EO#009217): Previously examined and licensed. (License 95-7231). The capacity shown in Attachment 5 was taken from the license.
2. East Seasons Acres (EO#009103): Full beneficial use has not yet been completed of this permitted right. The capacity shown in Attachment 5 is the rated capacity of the pump.
3. Sylte Well (EO#009200): There is no meter on this well and we were unable to get an accurate pitot reading by isolating the well and flowing a fire hydrant. The capacity shown in Attachment 5 is the rated capacity of the pump.
4. Hayden Well #1 (EO#005169): Previously examined and licensed. (License 95-7763). The capacity shown in Attachment 5 was taken from the license.
5. Ohio Match #2: No pump. This point of diversion will be removed.
6. Hayden Well #2: No pump. This point of diversion will not be included.
7. Lancaster Well #2: This source is currently unusable as the pump has seized. The capacity shown in Attachment 5 is that which the pump was previously capable of producing.

Have conditions of permit approval been met?

Yes, the conditions of these permits have been met:

1. Suitable measuring devices have been installed on all points of diversion associated with the permits.
2. The District is conforming with the current Rathdrum Prairie Groundwater Management Plan.

F. FLOW CALCULATIONS _____ Additional Computation Sheets Attached

Measured Method: See Attachment 6

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: N/A

$V_{I.R}$ = (Acres Irrigated) x (Irrigation Requirement) =

$V_{D.R.}$= [Diversion Rate (cfs)] x (Days in Irrigation Season) x 1.9835 =

V = Smaller of $V_{I.R.}$ and $V_{D.R.}$ =

2. Volume Calculations for Other Uses: N/A

H. RECOMMENDATIONS Based on the diversion capacity (see Attachment 5) we recommend that each license be for the diversion amount listed below.

1. Recommended Amounts

Beneficial Use - Municipal	Period of Use From	To	Rate of Diversion Q (cfs)	Annual Volume V (afa)
Permit 95-9199	01/01	12/31	8.83 cfs	
Permit 95-8639	01/01	12/31	1 cfs	376
Permit 95-9217	01/01	12/31	2.51 cfs	
		Totals:	12.34 cfs	

2. Recommended Amendments: Refer to Section E

_X_ Change P.D. as reflected above _X_ Add P.D. as reflected above ___ None

___ Change P.U. as reflected above ___ Add P.U. as reflected above ___ Other

I. AUTHENTICATION

Field Examiner's Name Necia Maiani Date 5/13/09

Reviewer _____ Date _____ SEAL

PROFESSIONAL ENGINEER REGISTERED Necia Maiani 11814 5/13/09 STATE OF IDAHO NECIA M. MAIANI

Examiner 10 - 139

ATTACHMENT 1

Attachment 1

System	Well	Identification Number	Exam Date	Accompanied By	Relationship to Permit Holder
Ohio Match	Ohio Match 1		5/22/2008	Brad O'Connell	Employee
Hillside	Finucane		2/12/2009	Jared Felton	Employee
GTE/Hayden Pines	Hayden Pines		2/12/2009	Jared Felton	Employee
	GTE 1		5/23/2008	Brad O'Connell	Employee
	GTE 2		2/12/2009	Jared Felton	Employee
Twin Lakes	Tree Farm 1		2/12/2009	Jared Felton	Employee
	Tree Farm 2		2/12/2009	Jared Felton	Employee
	Echo Beach		6/20/2008	Ricky Billman	Employee
Rimrock	Lancaster 1		2/12/2009	Jared Felton	Employee
	Lancaster 3		2/12/2009	Jared Felton	Employee
Hayden Orchards	Hayden Orchard		5/23/2008	Brad O'Connell	Employee
Chilco	Chilco 1		6/20/2008	Ricky Billman	Employee
	Chilco 2		6/20/2008	Ricky Billman	Employee
Atlas Acres	Atlas Acres		5/22/2008	Brad O'Connell	Employee
Mountain View	Elk Street		6/20/2008	Ricky Billman	Employee
	Echo Street		6/20/2008	Ricky Billman	Employee
Meadowland Acres	Meadowland Acres		5/23/2008	Brad O'Connell	Employee
Valley Green	Valley Green		2/12/2009	Jared Felton	Employee

ATTACHMENT 2

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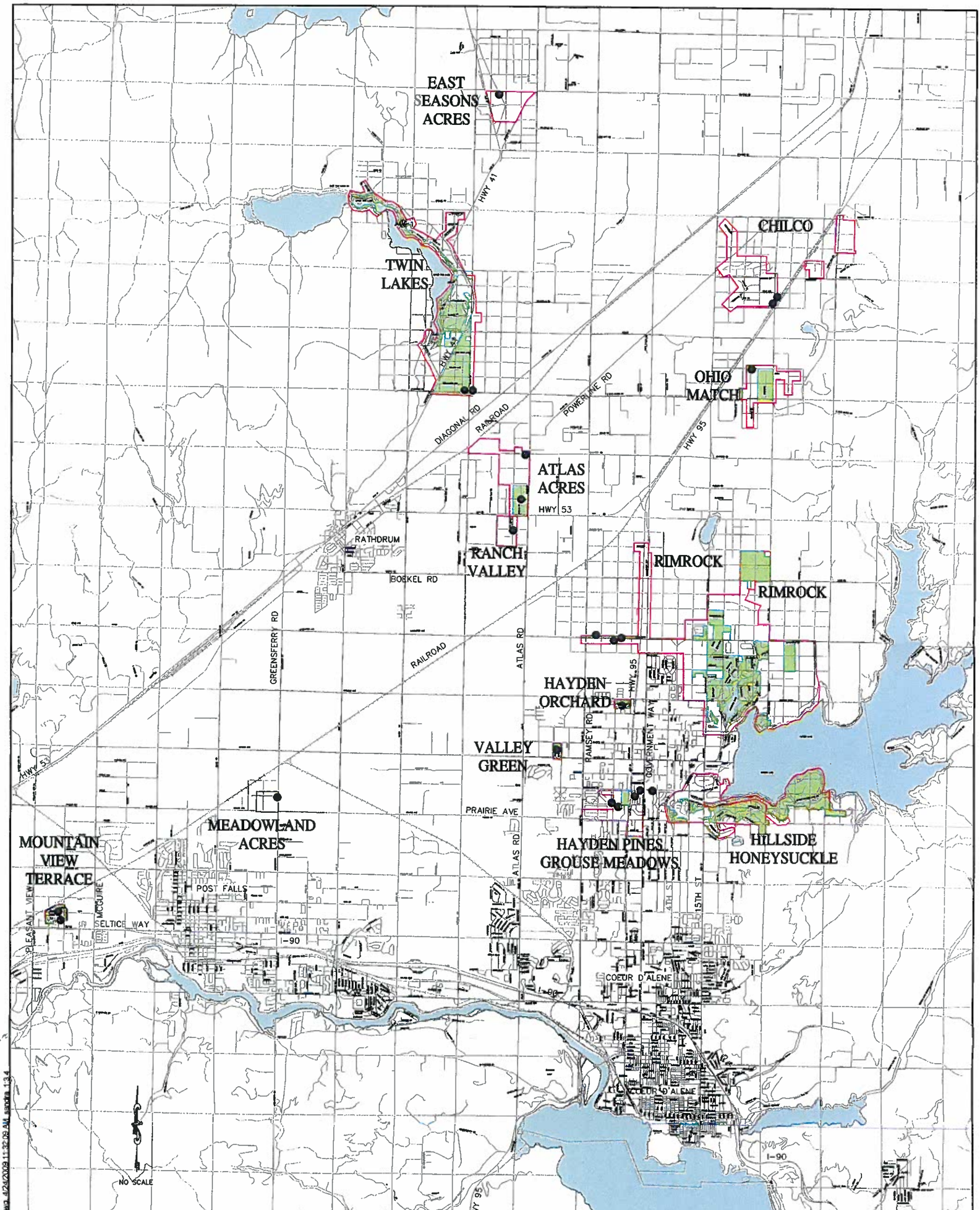
Attachment 2: Points of Diversion

System	PWS Number	Well	DEQ Identification Number	Well Drilling Permit Number	Latitude[1]	Longitude[1]	1/4 1/4	Section	Township	Range	County
Ohio Match	1280127	Ohio Match 1	EO #005184	#D0010243	47°51.183N	116°45.060W	NWSE	18	52N	03W	Kootenai
Hillside	1280095	Finucane	EO #005170		47°45.089N	116°47.021W	NWSW	24	51N	04W	Kootenai
		Hayden Well	EO #005169		47°45.077N	116°47.281W	NESE	23	51N	04W	Kootenai
GTE/Hayden Pines	1280257	Hayden Pines	EO #005168	#D0041569	47°45.008N	116°47.392W	NESE	23	51N	04W	Kootenai
		GTE 1	EO #009196		47°44.882N	116°47.836W	SWSE	23	51N	04W	Kootenai
		GTE 2	EO #005172		47°44.874N	116°47.805W	SWSE	23	51N	04W	Kootenai
Twin Lakes	1280099	Tree Farm 1	EO #005190		47°50.800N	116°51.082W	SESE	17	52N	04W	Kootenai
		Tree Farm 2	EO #005191	#D0051936	47°50.800N	116°51.055W	SESE	17	52N	04W	Kootenai
		Echo Beach	EO #005192		47°53.173N	116°52.533W	NENE Lt 1	6	52N	04W	Kootenai
Rimrock	1280009	Lancaster 1	EO #005154		47°47.256N	116°47.827W	NWNWNE	11	51N	04W	Kootenai
		Lancaster 2	EO #009193		47°47.269N	116°47.799W	NWNE	11	51N	04W	Kootenai
		Lancaster 3	EO #009199	#D0022244	47°47.320N	116°48.268W	SESWSW	2	51N	04W	Kootenai
Hayden Orchards	1280088	Hayden Orchard	EO #005171		47°46.308N	116°47.696W	NWNE	14	51N	04W	Kootenai
Chilco	1280048	Chilco 1	EO #005189		47°52.179N	116°44.591W	SWNW	8	52N	03W	Kootenai
		Chilco 2	EO #005186	#D0013463	47°52.182N	116°44.588W	SWNW	8	52N	03W	Kootenai
Atlas Acres	1280005	Atlas Acres	EO #005155		47°49.246N	116°49.910W	NESE	28	52N	04W	Kootenai
		Sylte Well	EO #009200	#D0028350	47°49.882N	116°49.834W	NENE	28	52N	04W	Kootenai
Mountain View	1280123	Elk Street	EO #005195		47°43.081N	116°59.531W	SESW	32	51N	05W	Kootenai
		Echo Street	EO #005194		47°43.201N	116°59.586W	NESW	32	51N	05W	Kootenai
Meadowland Acres	1280277	Meadowland Acres	EO #009114		47°44.897N	116°54.979W	SESE	23	51N	05W	Kootenai
Valley Green	1280195	Valley Green	EO #005166		47°45.657N	116°49.064W	SWSE Lt. 7	15	51N	04W	Kootenai
East Seasons Acres	1280278	East Seasons Acres	EO #009103		47°55.061N	116°50.530W	NENW	28	53N	04W	Kootenai
Ranch Valley	1280151	Ranch Valley	EO #009217		47°48.798N	116°50.069W	SENE	33	52N	04W	Kootenai

Notes:

1. Latitude and longitude were established using a handheld GPS unit. The estimated accuracy of this equipment is +/- 20 feet.

ATTACHMENT 3



GROUND WATER WELL LOCATIONS
SURFACE WATER INTAKE LOCATIONS
LAKES AND RIVERS
DISTRICT BOUNDARY (ANNEXED LOTS AND PARCELS)*
WATER SERVICE AREA

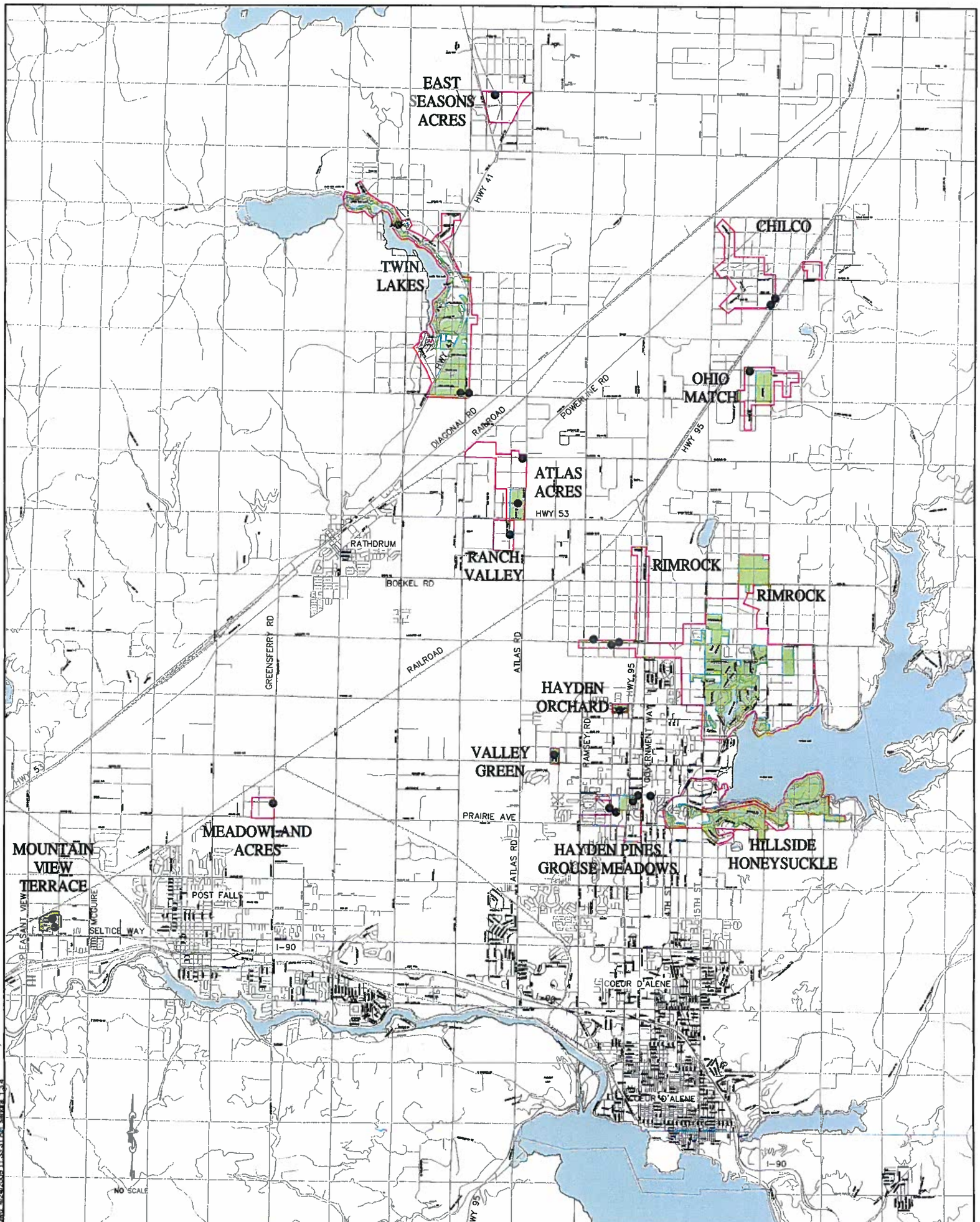
* BASED ON DATA PROVIDED BY KOOTENAI CO-13-2008

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NORTH KOOTENAI WATER DISTRICT SYSTEM OVERVIEW SERVICE AREA AND POINTS OF DIVERSION FOR PERMIT NO. 95-8639

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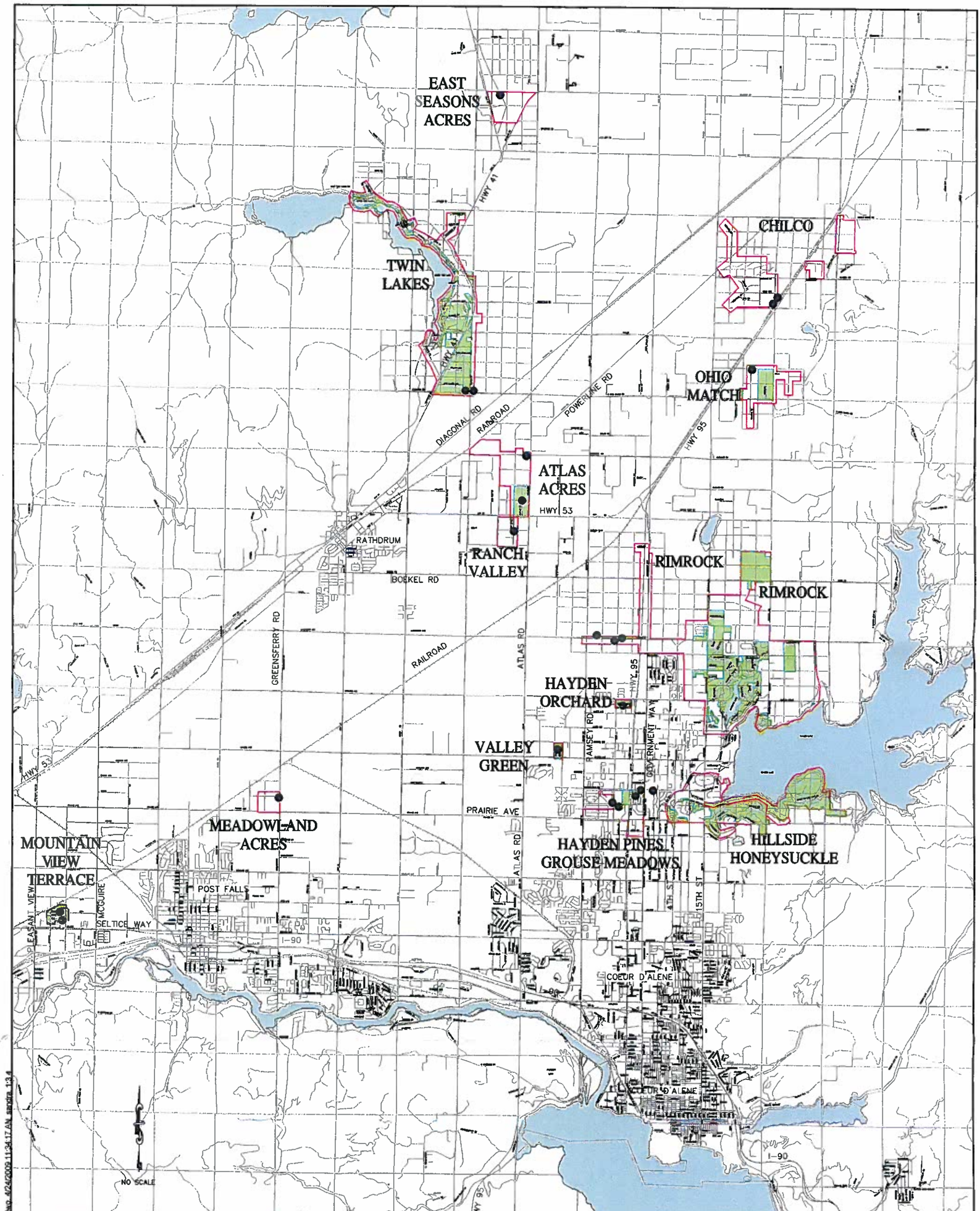


GROUND WATER WELL LOCATIONS
SURFACE WATER INTAKE LOCATIONS
LAKES AND RIVERS
DISTRICT BOUNDARY (ANNEXED LOTS AND PARCELS)*
WATER SERVICE AREA
* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009
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NORTH KOOTENAI WATER DISTRICT SYSTEM OVERVIEW
SERVICE AREA AND POINTS OF DIVERSION
FOR PERMIT NO. 95-9199

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GROUND WATER WELL LOCATIONS
SURFACE WATER INTAKE LOCATIONS
LAKES AND RIVERS
DISTRICT BOUNDARY (ANNEXED LOTS AND PARCELS)*
WATER SERVICE AREA

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

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NORTH KOOTENAI WATER DISTRICT SYSTEM OVERVIEW SERVICE AREA AND POINTS OF DIVERSION FOR PERMIT NO. 95-9217

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ATTACHMENT 4

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Attachment 4

System	Well	Identification Number	Additional Description	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size	Notes
Ohio Match	Ohio Match 1	EO #005184	Inside Well		5			1.5"	Submersible
Hillside	Finucane	EO #005170	Finucane	GE	75	PXJ329123		6"	Turbine
	Hayden Well 1	EO #005169		GE	200	5K6278XH34A	Peerless	236369	Turbine
GTE/ Hayden Pines	Hayden Pines	EO #005168			30				Submersible
	GTE 1	EO #009196	Outside Well	Franklin	50		Grundfos	475S500-5	Submersible
	GTE 2	EO #005172	Inside Well		30		Red Jacket		Submersible
Twin Lakes	Tree Farm 1	EO #005190	Inside Well	Franklin	25	01F19-28-0032		4"	Submersible
	Tree Farm 2	EO #005191	Outside Well	Franklin	30	336333963 00J19-19-0091	Grundfos	6"	Submersible
	Echo Beach	EO #005193		Franklin	30		Grundfos	mod. 230S300-9	Submersible
Rimrock	Lancaster 1	EO #005154		GE	200	GLJ723123	Worthington	VTP305405	Turbine
	Lancaster 2	EO #009193		Hitachi	75	G8938001H	Berkeley	7T75-450	Submersible
	Lancaster 3	EO #009199			200			12"	Submersible
Hayden Orchards	Hayden Orchard	EO #005171			15			3"	Submersible
Chilco	Chilco 1	EO #005189			15			4"	Submersible
	Chilco 2	EO #005186			10		Grundfos	230S100-3	Submersible
Atlas Acres	Atlas	EO #005155			10	4KNE0616	Red Jacket	2"	Submersible
	Sylte Well	EO #009200			30			3"	Submersible
Mountain View	Elk Street	EO #005195			7.5			R-8889-02-D-555	Turbine
	Echo Street	EO #005194		US Vertical	50	R8889-02-D-55 R2085810	Aurora Verti-Line	V74-01443	Turbine
Meadowland Acres	Meadowland Acres	EO #009114			7			3"	Submersible
Valley Green	Valley Green	EO #005166		Franklin	10		Jacuzzi	6" Ductile	Submersible
East Seasons	East Seasons	EO #009103						2"	Submersible
Ranch Valley	Ranch Valley	EO #009217						1.5"	Submersible

ATTACHMENT 5

Attachment 5: Flow Measurements

System	Well	Identification Number	Exam Date	Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date	Measured Flow Rate[4]	
Ohio Match	Ohio Match 1	EO #005184	5/22/2008	Master Meter				2216149	1.5"	Unknown	0.16 cfs	70 gpm
Hillside	Finucane	EO #005170	2/12/2009	Rockwell				92557	3"	Unknown	0.98 cfs	440 gpm
	Hayden Well[1]	EO #005169	Licensed Under 95-7763 at 3 cfs								3 cfs[5]	1347 gpm[5]
GTE/Hayden Pines	Hayden Pines	EO #005168	2/12/2009	McCrometer				06-07860-04		Unknown	0.38 cfs	170 gpm
	GTE 1	EO #009196	5/23/2008	Rockwell Meter				34833	6"	Unknown	1.17 cfs	525 gpm
	GTE 2	EO #005172	2/12/2009	McCrometer				78-4-353	4"	Unknown	0.49 cfs	220 gpm
Twin Lakes	Tree Farm 1	EO #005190	2/12/2009	Siemens	Digital	Meg 140	5000	7ME652207402N038	4"	Unknown	0.36 cfs	160 gpm
	Tree Farm 2	EO #005191	2/12/2009	McCrometer				07-05206-07	6"	Unknown	1 cfs	450 gpm
	Echo Beach	EO #005193	6/20/2008	Drawdown in tank						Unknown	0.49 cfs	222 gpm
Rimrock	Lancaster 1	EO #005154	2/12/2009	McCrometer			F7000	E06-00289	10"	Unknown	2.45 cfs	1100 gpm
	Lancaster 2	EO #009193									0.83 cfs[6]	372 gpm[6]
	Lancaster 3	EO #009199	2/12/2009	Master Meter	Class II			8040444	8"	Unknown	2.30 cfs	1034 gpm
Hayden Orchards	Hayden Orchard	EO #005171	5/23/2008	Precision	Invensys			60039485	2"	Unknown	0.18 cfs	80 gpm
Chilco	Chilco 1	EO #005189	6/20/2008	Badger Meter				62759-004	4"	Unknown	0.78 cfs	350gpm
	Chilco 2	EO #005186	6/20/2008	Master Meter				6171067	4"	Unknown	0.56 cfs	250 gpm
Atlas Acres	Atlas Acres	EO #005155	5/22/2008	McCrometer					2"	Unknown	0.18 cfs	80 gpm
	Sylte Well[2]	EO #009200	Not Tested, No Meter, Separate Permit 95-9129								0.53 cfs[6]	239 gpm[6]
Mountain View	Elk Street	EO #005195	6/20/2008	Rockwell				1328456	3"	Unknown	0.21 cfs	95 gpm
	Echo Street[2]	EO #005194	6/20/2008	Master Meter				97233	4"	Unknown	.96 cfs	430 gpm
Meadowland Acres	Meadowland Acres	EO #009114	5/23/2008	Kent Meter		T3000		96420028	3"	Unknown	0.53 cfs	240 gpm
Valley Green	Valley Green	EO #005166	2/12/2009	Precision	Steel	PMM		94564977	2"	Unknown	0.16 cfs	70 gpm
East Seasons Acres	East Seasons Acres	EO #009103	Not Tested, Separate Permit 96-9134								0.05 cfs	24 gpm
Ranch Valley	Ranch Valley[3]	EO #009217	Licensed Under 95-7231 at 0.08 cfs								0.08 cfs[7]	36 gpm[7]

Total Diversion Capacity (cfs): 17.83

Notes:

1. The diversion capacity of Hayden Well is covered under Water Right 95-7763.
2. The flow measurement shown for Echo Street was taken on 11/24/2008.
3. The diversion capacity of Ranch Valley is covered under Water Right 95-7231.
4. For those wells that were not tested, the diversion capacity shown is based on either an existing license or the theoretical diversion, calculated in Attachment 6.
5. As shown on the 1980 Field Exam Report and license 95-7763.
6. Diversion capacity is based on the Theoretical Diversion as calculated in Attachment 6.
7. As shown on the Field Exam Report and license 95-7231.

ATTACHMENT 6

Attachment 6 Theoretical Diversion

Equation: **Q = HP X 3956 X Eff. / H**

Well	Discharge to:	Special Design Condition	H = Design Discharge Head (Approximate) feet	Pump Horse Power (HP)	Assumed Pump Efficiency (Eff)	Discharge (Q) gpm
Ohio Match 1	Ground Storage		90	5	0.75	165
Finucane	System	Fire Flow	532	75	0.75	418
Hayden Well*	**Not Tested**					1,347
Hayden Pines	Ground Storage		267	30	0.75	333
GTE 1	Ground Storage		268	50	0.75	554
GTE 2	Ground Storage		268	30	0.75	332
Tree Farm 1	System	Fire Flow	528	25	0.75	140
Tree Farm 2	System	Fire Flow	528	30	0.75	169
Echo Beach	Ground Storage		315	30	0.75	283
Lancaster 1	System	Fire Flow	598	200	0.75	992
Lancaster 2	**Unusable**		598	75	0.75	372
Lancaster 3	System	Fire Flow	598	200	0.75	992
Hayden Orchard	Ground Storage		310	15	0.75	144
Chilco 1	Ground Storage		85	15	0.75	524
Chilco 2	Ground Storage		85	10	0.75	349
Atlas	Ground Storage		253	10	0.75	117
Sylte Well	**Not Tested**		373	30	0.75	239
Elk Street	Ground Storage		92	8	0.75	242
Echo Street	Ground Storage		92	50	0.75	1,613
Meadowland Acres	Ground Storage		300	7	0.75	69
Valley Green	Ground Storage		310	10	0.75	96
East Seasons Acres	**Not Tested**		618	5.00	0.75	24
Ranch Valley*	**Not Tested**					36
						9,548.96 **gpm**
					Total	**21.28** **cfs**

*These points of diversion were not tested as they have already been licensed. The amount licensed for diversion at each well has been entered as the Discharge.

OHIO MATCH

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OHIO MATCH 1 WELL
EO NO. 005184

10,000 GALLON
RESERVIOR

(2) 7.5 HP BOOSTER PUMPS

(2) 1.5 HP BOOSTER PUMPS

SERVICE AREA
BOUNDARY

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

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NO.	DATE	REVISION DESCRIPTION	BY

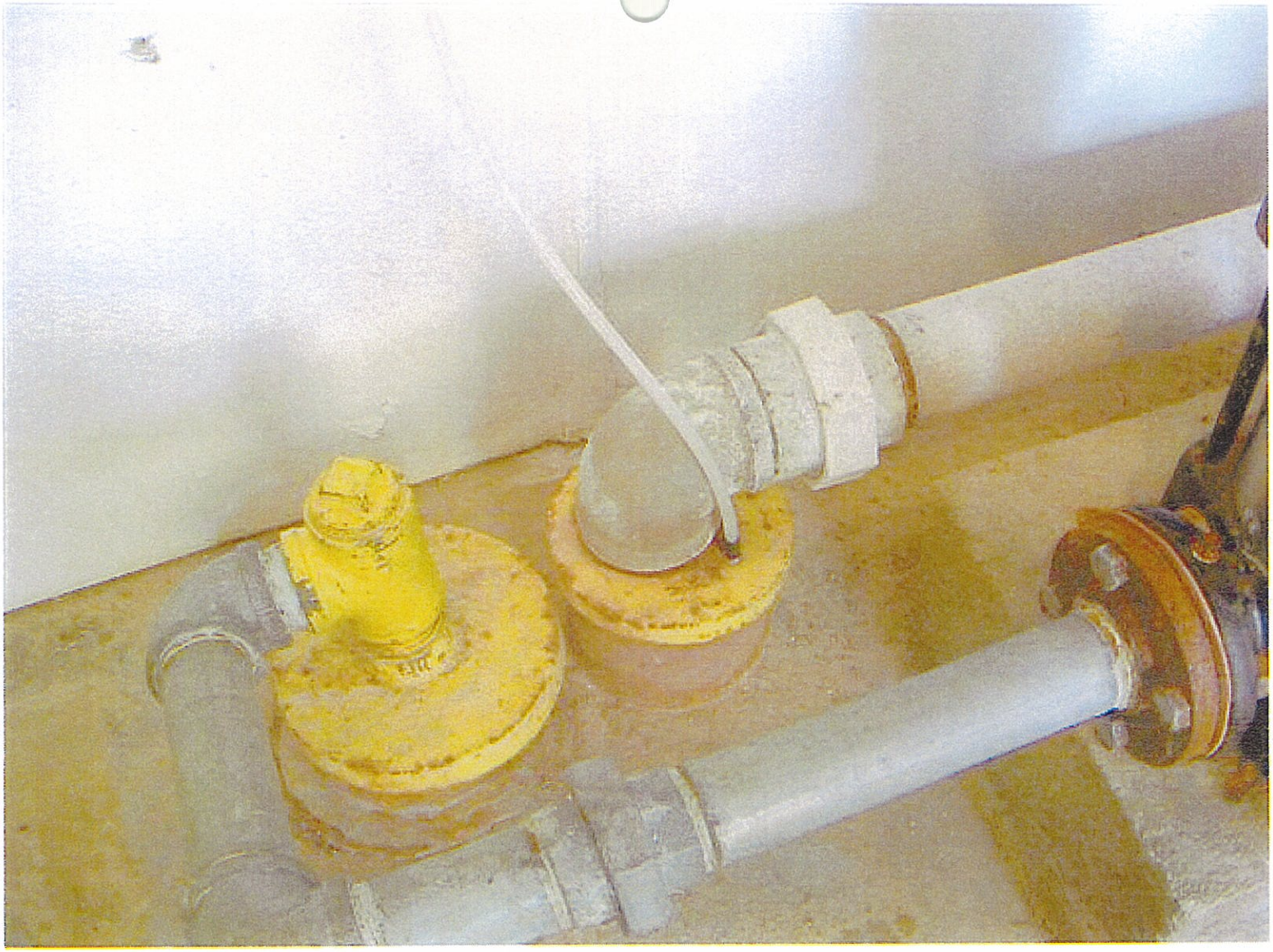
NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199 AND 95-9217

OHIO MATCH
PWS NO. 1280127

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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Ohio Match
EO#005184

Ohio Match

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

(AMENDED) RECEIVED JUL 22 1977

Department of Water Resources

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Steve Souther

Address 421 N 20th Coeur d'Alene Id 83814

Owner's Permit No. ID #95-7713

2. NATURE OF WORK 95-76-N-91

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☒ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☐ Cable ☒ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 6 inches Total depth 235 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	8 inches	+1 feet	94 feet
.250 inches	6 inches	1 feet	220 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was casing drive shoe used? ☒ Yes ☐ No

Was a packer or seal used? ☐ Yes ☒ No

Perforated? ☐ Yes ☒ No

How perforated? ☐ Factory ☐ Knife ☐ Torch

Size of perforation ____ inches by ____ inches

Number	From	To
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet

Well screen installed? ☐ Yes ☒ No

Manufacturer's name ____

Type ____ Model No. ____

Diameter ___ Slot size ___ Set from ____ feet to ____ feet

Diameter ___ Slot size ___ Set from ____ feet to ____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel ____

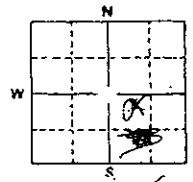
Placed from ____ feet to ____ feet

Surface seal depth 22 Material used in seal ☐ Cement grout ☒ Puddling clay ☒ Well cuttings

Sealing procedure used ☐ Slurry pit ☒ Temporary surface casing ☒ Overbore to seal depth

6. LOCATION OF WELL 95

Sketch map location must agree with written location.



Subdivision Name ____

Lot No. ____ Block No. ____

County Kootenai

7. WATER LEVEL

Static water level 160 feet below land surface

Flowing? ☐ Yes ☒ No G.P.M. flow ____

Temperature Cold ° F. Quality Good

Artesian closed-in pressure ____ p.s.i.

Controlled by ☐ Valve ☒ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☐ Bailer ☒ Other AIR

Discharge G.P.M.	Draw Down	Hours Pumped
15	?	1 hr.

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	35	Small Boulders & Gravel		X
8	35	94	" "		X
	94	103	Basalt		X
	103	107	Clay		X
	107	128	Basalt		X
	128	135	Clay		X
	135	176	Basalt		X
	176	200	Clay		X
	200	235	Broken Basalt	X	
			15 GPM @ 222		

10. Work started 7/1/76 finished 7/7/76

11. DRILLER'S CERTIFICATION

Firm Name Associated Well Drillers Firm No. 245

Address Box 723 C.D.A. Idaho Date 7/7/77

Signed by (Firm Official) Bud Thornton

and (Operator) Robert F Wright

780227

Form 238-7 11

RECEIVED
JUL 0 2 1999
IDWR/North

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Office Use Only
Inspected by_____
Twp_____ Rge_____ Sec_____
____1/4 ____1/4 ____1/4
Lat: : : Long: : :

WELL TAG NO. D0010243
DRILLING PERMIT N 95-76-N-91-400
Other IDWR No

2. OWNER:

POSTED

Name North Kootenai Water District
Address PO Box 2290
City Hayden State ID Zip 83835

3. LOCATION OF WELL by legal description:

N / W / E / S

Twp 52N North ☒ or South ☐
Rge 03W East ☐ or West ☒
Sec 18 ____ 1/4 NW 1/4 SE 1/4
10 Ac 40 Ac 160 Ac
Gov't Lot ____ County Kootenai
Lat Long

Address of Well Site: (see next line)
City
Lot Blk Sub Name (see next line)

4. USE:

☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK check all that apply (Replacement etc.)

☐ New Well ☐ Modify ☐ Abandonment ☒ Other clean-out

DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK			Amount	Method
Material	From	To	Sacks/Lbs	

Drive Shoe Used? ☐ Y ☒ N Shoe Depth(s)
Drive Shoe Seal Tested? ☐ Y ☒ N How?

8. CASING/LINER

Diam	From	To	Gauge	Material	Casng	Liner	Weld	Thrded
					☐	☐	☐	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length Headpipe _____ Length Tailpipe _____

9. PERFORATIONS/SCREENS

☐ Perforations? Method
☐ Screens? Screen Type

From	To	Slot	Nmbr	Diam	Material	Casng	Liner
						☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL or ARTESIAN PRESSURE

____ ft below ground Artesian pressure ____ lb
Depth flow encountered ____ ft Describe access port or control devices:

11. WELL TESTS:

☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pump Level	Time

Water Temp. Bottom hole temp
Water Quality test or comments: (below) Depth first Water Encountered

12. LITHOLOGIC LOG (Describe repairs or abandonment)

Bore Diam	From	To	Remarks: Lithology, Water Quality and Temperatyre	Water Y	Water N
			Set over the well and cleaned it out.	☐	☐
			no modifications made	☐	☐

Completed Depth 235 (Measurable)
Date: Started 6/27/99 Completed 6-27-99

13. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed

Firm Name United Drilling Inc. Firm No 414
Firm Official and Supervisor or Operator Jason C Beckham Date 7/1/99 Date 7/1/99

FORWARD WHITE COPY TO WATER RESOURCES

173

HILLSIDE

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SERVICE AREA BOUNDARY

(1) 7.5 HP BOOSTER PUMP
(1) 5 HP BOOSTER PUMP

(2) 25 HP BOOSTER PUMPS

250,000 GALLON RESERVIOR

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

170,000 GALLON RESERVIOR

(2) 5 HP BOOSTER PUMPS
(1) 7.5 HP BOOSTER PUMP

100,000 GALLON RESERVIOR

(1) 15 HP BOOSTER PUMP
(1) 5 HP BOOSTER PUMP

70,000 GALLON RESERVIOR

NOTES

1. THE HILLSIDE SYSTEM IS FED BY WELL EO NO. 005169 (HAYDEN WELL 1) AND WELL EO NO. 005170 (FINUCANE WELL) REFER TO THE GTE/HAYDEN PINES SYSTEM SCHEMATIC

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NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

HILLSIDE/HONEYSUCKLE HILLS
PWS NO. 1280095

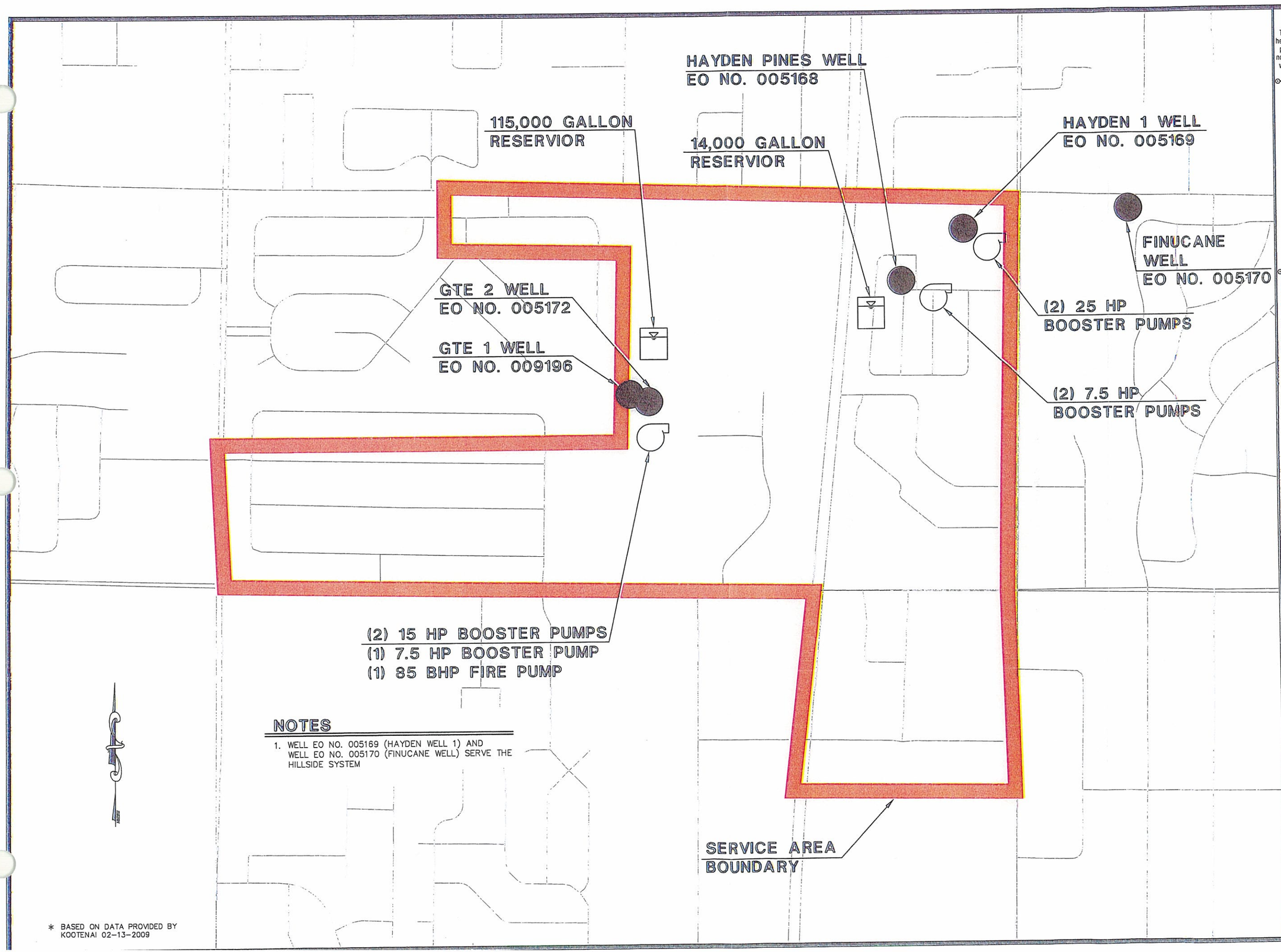
PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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Finucane Well
EO#005170

GTE/HAYDEN PINES



NOTES

1. WELL EO NO. 005169 (HAYDEN WELL 1) AND WELL EO NO. 005170 (FINUCANE WELL) SERVE THE HILLSIDE SYSTEM

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

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NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

GTE/HAYDEN PINES
PWS NO. 1280257

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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Hayden Lakes

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

State law requires that this report be filed with the State Reclamation Engineer within 30 days after completion or abandonment of the well.

RECEIVED
Department of Water Administration

1. WELL OWNER

Name Hayden Pines Inc.
Address Hayden Lake Ida PO Box 845
Owner's Permit No. 95-71-N-62

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test
☑ Municipal ☐ Industrial ☑ Stock

4. METHOD DRILLED

☑ Cable ☑ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 330 feet
Casing schedule: ☑ Steel ☐ Concrete

Thickness	Diameter	From	To
277 inches	8 inches	+18" feet	237 feet
350 inches	6 inches	200 feet	330 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was a packer or seal used? ☐ Yes ☑ No
Perforated? ☑ Yes ☐ No
How perforated? ☐ Factory ☑ Knife ☐ Torch
Size of perforation 1/4 inches by 1 1/2 inches

Number	From	To
76 perforations	307 feet	325 feet
perforations	feet	feet
perforations	feet	feet

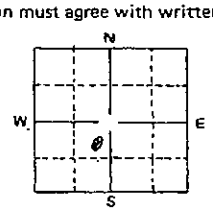
Well screen installed? ☐ Yes ☑ No
Manufacturer's name
Type Model No.
Diameter Slot size Set from feet to feet
Diameter Slot size Set from feet to feet

Gravel packed? ☐ Yes ☑ No Size of gravel
Placed from feet to feet

Surface seal? ☑ Yes ☐ No To what depth 279 feet
Material used in seal ☐ Cement grout ☑ Puddling clay

6. LOCATION OF WELL

Sketch map location must agree with written location.



County Kootenai
SE ¼ SW ¼ Sec. 13 T. 51 N R. 4 W BM

7. WATER LEVEL

Static water level 267 feet below land surface
Flowing? ☐ Yes ☑ No G.P.M. flow
Temperature ° F. Quality
Artesian closed-in pressure p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☑ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
30	0	4

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
12	0	18"	Top Soil & Gravel Brown		✓
	18"	6	Cobble Stones " "		✓
	6	24	Gravel & Sand & Silt "		✓
	24	38	Pea Gravel		✓
8	38	160	Gravel & Sand 3/4" minus		✓
	160	198	Sand Fine Brown		✓
	198	237	Gravel Sand 1/2" minus		✓
6	237	288	One Dam Big	✓	✓
6			Bolder Granite		
6			Black and white	✓	✓
6	288	301	Coarse washed	✓	
6			sand		
6	301	325	Gravel 1 1/4" minus		
6			washed	✓	
6	325	330	Sand Fine	✓	
			The top of the Bolder was out of the water but when we drilled through we were in 9 ft of water at that point in the drilling of the hole it then came up to 267 ft after the perforations were in and the well developed		
			07113		

10.

Work started June 8 1971 finished July 23 1971

11. DRILLER'S CERTIFICATION

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

E H Holman Drilling Co. 105
Driller's or Firm's Name Number
641 S Pines Rd Spokane Wn.
Address
E H Holman Jr. July 24-1971

GTE

USE TYPEWRITER OR BALL POINT PEN

State Idaho
Department of Water Resources

WELL DRILLER'S REPORT

(O.IN.)

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Hayden Pines Water Co
Address Hayden Lake Idaho
Owner's Permit No. 95-72-N-111

2. NATURE OF WORK

■ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

■ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

■ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 16 inches Total depth 367 feet
Casing schedule: ■ Steel ☐ Concrete

Thickness	Diameter	From	To
.375 inches	16.00 inches	+ 2 feet	339 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ■ Yes ☐ No
Was a packer or seal used? ☐ Yes ■ No
Perforated? ☐ Yes ■ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number	From	To
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ■ Yes ☐ No
Manufacturer's name U.O.P. Johnson
Type Stainless Steel Model No. 304
Diameter 16 Slot size 140 Set from 339 feet to 344 feet
Diameter ___ Slot size 140 Set from 344 feet to 357 feet
357 367
Gravel packed? ☐ Yes ■ No Size of gravel _____
Placed from _____ feet to _____ feet

Surface seal depth 30 Material used in seal ☐ Cement grout ■ Puddling clay ☐ Well cuttings
Sealing procedure used ☐ Slurry pit ■ Temporary surface casing ☐ Overbore to seal depth

7. WATER LEVEL

Static water level 268 feet below land surface
Flowing? ☐ Yes ■ No G.P.M. flow _____
Temperature _____ ° F. Quality _____
Artesian closed-in pressure _____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ■ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
100	0	5

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
24	0	28	Gravel Coarse		✓
24	28	30	Gravel Coarse 6"minus		✓
16	30	54	Gravel Coarse 6"minus	✓	
	54	62	Gravel Coarse 6"minus		✓
	62	89	Gravel 2"minus		✓
	89	127	Gravel Small F Sand		✓
	127	163	Gravel F Sand Compacted		✓
	163	169	Gravel with Bolder (3ft dia)		✓
	169	194	Gravel Coarse 6"minus		✓
	194	268	Gravel Coarse		✓
	268		Water		✓
	268	277	Gravel Coarse & Clean		✓
	277	299	Gravel F Sand		✓
	299	306	Sand Fine 80% Some Clay		✓
	306	318	Gravel F Sand 2"minus		✓
	318	331	Sand Fine - Some Clay		✓
	331	358	Sand Fine		✓
	358	362	Sand Coarse		✓
	362	366	Gravel Coarse w/Sand		✓
	366	367	Sand Fine w/Clay		✓

10.

Work started 9/24/77 finished 12/13/77

11. DRILLERS CERTIFICATION

Firm Name E.B. Holman Drilling Co Firm No. 105
Address Old Pines Rd Sandpoint Date 12/21/77
Signed by (Firm Official) _____
and
(Operator) Don Koch

6. LOCATION OF WELL

95

Sketch map location must agree with written location.

N W E S

Subdivision Name _____
Lot No. _____ Block No. _____
County Kootenai

TWIN LAKES

ECHO BEACH WELL
EO NO. 005192

SERVICE AREA
BOUNDARY

(2) 7.5 HP BOOSTER PUMPS

30,000 GALLON
RESERVIOR

100,000 GALLON
RESERVIOR

TREE FARM 1 WELL
EO NO. 005190

TREE FARM 2 WELL
EO NO. 005191

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

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NO.	DATE	REVISION DESCRIPTION	BY

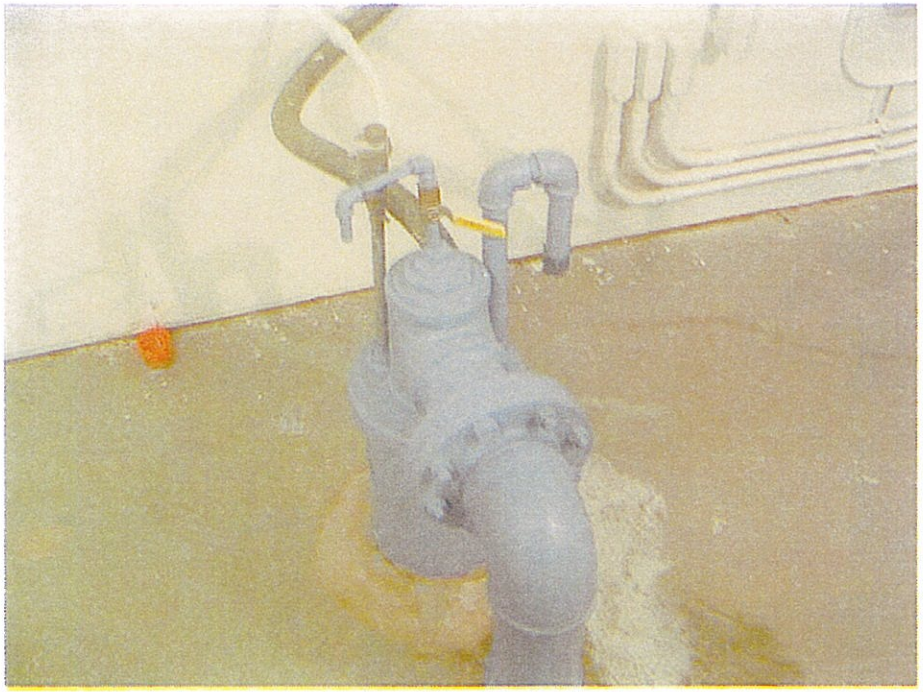
NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

TWIN LAKES
PWS NO. 1280099

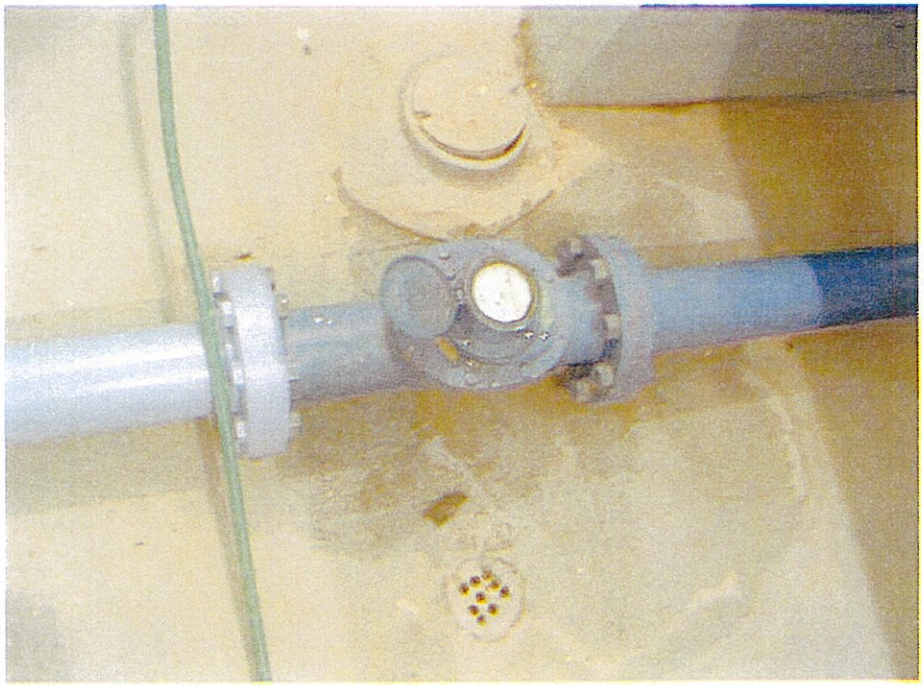
PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
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DWG NAME:	11228DS28.dwg
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SHEET NO:	

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Tree Farm 1
EO#005190

Tree Farm 1
EO#005190





Echo Beach
EO#005192

Echo Beach
EO#005192





Tree Farm 2
EO#005191

Twin Lakes Tree Farm

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Administration

WELL DRILLER'S REPORT

RECEIVED
FEB 27 1975
Department of Water Resources

State law requires that this report be filed with the Director, Department of Water Administration within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Twin Lakes Estates

Address Box 423 C.D.A., Idaho

Owner's Permit No. 95-7498

2. NATURE OF WORK 95-75-N-80

☑ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☑ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☑ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 350 feet

Casing schedule: ☑ Steel ☐ Concrete

Thickness	Diameter	From	To
.322 inches	8 inches	+1 feet	350 feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet
inches	inches	feet	feet

Was a packer or seal used? ☑ Yes ☐ No

Perforated? ☑ Yes ☐ No

How perforated? ☐ Factory ☑ Knife ☐ Torch

Size of perforation ¼ inches by 1½ inches

Number	From	To
120 perforations	331 feet	349 feet
perforations	feet	feet
perforations	feet	feet

Well screen installed? ☐ Yes ☑ No

Manufacturer's name

Type Model No.

Diameter Slot size Set from feet to feet

Diameter Slot size Set from feet to feet

Gravel packed? ☐ Yes ☑ No Size of gravel

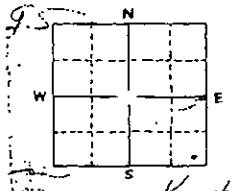
Placed from feet to feet

Surface seal depth 21' Material used in seal ☑ Cement grout ☐ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ☑ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name

Lot No. Block No.

County Kootenai

7. WATER LEVEL

Static water level 285 feet below land surface

Flowing? ☐ Yes ☑ No G.P.M. flow

Temperature 33° F. Quality

Artesian closed-in pressure p.s.i.

Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☑ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
- 150 +	none	Surged & bailed for 20 hrs.

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8"	[illegible]"	48'	1" Gravel		✓
	48'	57'	Bolder "blasted"		✓
	57'	107'	1" Gravel		✓
	107'	128'	Bolder "blasted"		✓
	128'	150'	1" Gravel		✓
	150'	154'	Bolder		✓
	154'	207'	¼ To 1½" Gravel		✓
	207'	212'	Bolder		✓
	212'	310'	¼ To 1½" Gravel		✓
			Hit H2O At 310'	✓	
	310'	350'	¼ To 1½" Gravel	✓	

10. Work started 12-20-74 finished 2-19-75

11. DRILLERS CERTIFICATION 228

Firm Name Cacmon Development Firm No.

Address St. Maries, Idaho Date 2-19-75

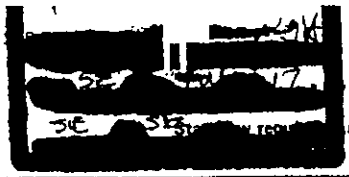
Signed by (Firm Official) John McCormack

and

(Operator) Frank A. Martin

1 Wirt Lakes Tree Farm

Form 1/78



STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

ENT'D

USE TYPEWRITER OR BALLPOINT PEN

...at this report be filed with the Director, Department of Water Resources 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Charles Bud Ford

Address 1547 Hidden View Dr.
Hayden Lake Ida. 83835

Owner's Permit No. _____

2. NATURE OF WORK 95-85-N-78

☑ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning) _____

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☑ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☐ Steel ☐ Concrete ☐ Other _____

Thickness		Diameter		From		To	
330	inches	10	inches +	2	feet	343	feet
_____	inches	_____	inches	_____	feet	_____	feet
_____	inches	_____	inches	_____	feet	_____	feet
_____	inches	_____	inches	_____	feet	_____	feet

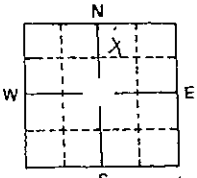
Was casing drive shoe used? ☑ Yes ☐ No
Was a packer or seal used? ☐ Yes ☑ No
Perforated? ☑ Yes ☐ No
How perforated? ☐ Factory ☑ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number		From		To	
170	perforations	325	feet	342	feet
_____	perforations	_____	feet	_____	feet
_____	perforations	_____	feet	_____	feet

Well screen installed? ☐ Yes ☑ No
Manufacturer's name _____
Type _____ Model No. _____
Diameter ____ Slot size ____ Set from _____ feet to _____ feet
Diameter ____ Slot size ____ Set from _____ feet to _____ feet
Gravel packed? ☐ Yes ☐ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth 18' Material used in seal: ☐ Cement grout ☑ Puddling clay ☐ Well cuttings
Sealing procedure used: ☐ Slurry pit ☑ Temp. surface casing ☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☐ Welded ☐ Solvent Weld ☐ Cemented between strata
Describe access port Welded Plug on Top

6. LOCATION OF WELL

Sketch map location must agree with written location



Subdivision Name _____

Lot No. _____ Block No. _____

County Kootenai

NW ¼ NE ¼ Sec. 20 T. 52 (N) R. 4 (W)

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Northern District Office

7. WATER LEVEL

Static water level 198 feet below land surface.
Flowing? ☐ Yes ☑ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature ____ °F. Quality _____

8. WELL TEST DATA

☐ Pump ☑ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
30	275	1

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
10	0	2	Top Soil		✓
	2	19	Brown Large w/Silt		✓
	19	33	Brown Small w/Silt		✓
	33	35	Boulders 2 ft.		✓
	35	111	Brown Small w/Silt		✓
	111	71	Cobble Stones		✓
	71	107	Brown Fine Gravel (Hard)		✓
	107	112	Brown Small w/ Silt		✓
	112	157	Brown Large w/Silt		✓
	157	168	Brown Large Clean		✓
	168	174	Cemented Sand & Gravel		✓
	174	181	Brown Sand w/Silt		✓
	181	186	Cobble Stones w/Silt (Hard)		✓
	186	191	Brown Small w/Sand & Silt		✓
	191	198	Cobble Stones Caught (Hard)		✓
	198	218	Brown Small w/Clay		✓
	218	253	Brown Large w/Sand & Silt		✓
	253	289	Brown Large w/Silt		✓
	289	298	Brown Large w/Clay		✓
	298	276			
	276	301	Gravel Small ½" minus Clean		✓
	301	304	Gravel Large ¾" minus Clean		✓
	304	324	Gravel 1" MINUS Clean		✓
	324	327	Gravel 2½" minus "		✓
	327	332	Gravel 3" minus Clean		✓
	332	339	Gravel 5½" minus		✓
	339	343	Gravel 3½" minus Good Stuff		✓

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Department of Water Resources

10. Work started 1-Feb-85 finished Dec 15-85

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name E.H. Hatmaker Drilling Co. Firm No. 1.5

Address 661 S. Rowan Rd. Spokane Wash. Date Dec. 15-85

Signed by (Firm Official) _____

and

(Operator) _____

Twin Lakes
Echo
Beach

Well Log Form 1
4M - 5/62

024683

WELL LOG AND REPORT OF THE STATE RECLAMATION ENGINEER OF IDAHO

ENT'D

95-64-N-3

Permit No. G-30778 Well No. _____ County Kootenai

Owner Charles T. Howard

Address Rathdrum, Idaho

Driller E.A. Holman

Address 601 S Pines, Spokane 66, Washington

Well location Lot 1 NE ¼ NE ¼ Sec. 6, T. 52 N/S, R. 4 E/W

Size of drilled hole 8"

Total depth of well 355'

Locate well in section

NW¼	NE¼
SW¼	SE¼

Give depth to standing water from the ground 322' Water temp. _____ °Fahr.

On "Pumping Test" delivery was _____ g.p.m. or _____ c.f.s. Drawdown was _____ feet.

Size of pump and motor used to make test _____

Length of time of test _____ hours _____ minutes.

If flowing well, give flow _____ c.f.s. or _____ g.p.m. and of shut off pressure _____

If flowing well, described control works _____
(TYPE AND SIZE OF VALVE, ETC.)

Water will be used for _____ Weight of casing per lineal foot _____

Thickness of casing _____ Casing material _____
(STEEL, CONCRETE, WOOD, ETC.)

Diameter, length and location of casing _____
(CASING 12" IN DIAMETER OR LESS, GIVE INSIDE DIAMETER; CASING OVER 12" IN DIAMETER, GIVE OUTSIDE DIAMETER)

CASING RECORD

Diam. Casing	From Feet	To Feet	Length	Remarks—seals, grouting, etc.
	[illegible]	321'		

Number and size of perforations _____ located 339' feet to 351' feet from ground

Date of commencement of well _____ Date of completion of well _____

S. 6 52 N 4W

W&S

WELL LOG

From Feet	To Feet	Type of Material	Water-bearing Formation Ans. Yes or No	Casing Perforated Ans. Yes or No
0	64	Gravel and clay		
64	115	Gravel and clay		
115	132	Hard Cement Gravel		
132	145	Pea Gravel and Clay		
145	178	Pea Gravel and Clay		
178	212	Cobble Stones		
212	221	Hard Coment Gravel		
221	255	Cobble Stones		
255	260	Pea Gravel and Clay		
260	282	Fine Sand		
282	300	Cemented Sand Gravel or hard pan		
300	308	Clean Wash Gravel		
308	318	Coarse Gravel and Boulders		
318	321	Gravel and Clay		
321	322	Clean Gravel		
322	325	Pea Gravel first water		
325	335	Fine Sand		
335	345	Coarse Gravel and Sand		
345	355	Fine Sand and Gravel		
355		Clean Gravel Coarse		
		If more space is required use Sheet No. 2		

WELL DRILLER'S STATEMENT

This well was drilled under my supervision and the above information is complete, true and correct to the best of my knowledge and belief,

Signed /s/ E. A. Holman

By

License No. 105

Dated , 19

024684

RIMROCK

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SERVICE AREA BOUNDARY

LANCASTER 2 WELL
EO NO. 009193

LANCASTER 3 WELL
EO NO. 009199

LANCASTER 1 WELL
EO NO. 005154

40,000 GALLON RESERVIOR

1 MILLION GALLON RESERVIOR

(1) 15 HP BOOSTER PUMP
(1) 10 HP BOOSTER PUMP
(1) 5 HP BOOSTER PUMP

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

WELCH-COMER ENGINEERS | SURVEYORS
www.welchcomer.com
350 E. Kathleen Ave.
Coeur d'Alene, ID 83815
208-664-9382
(toll free) 877-815-5672
(fax) 208-664-5946

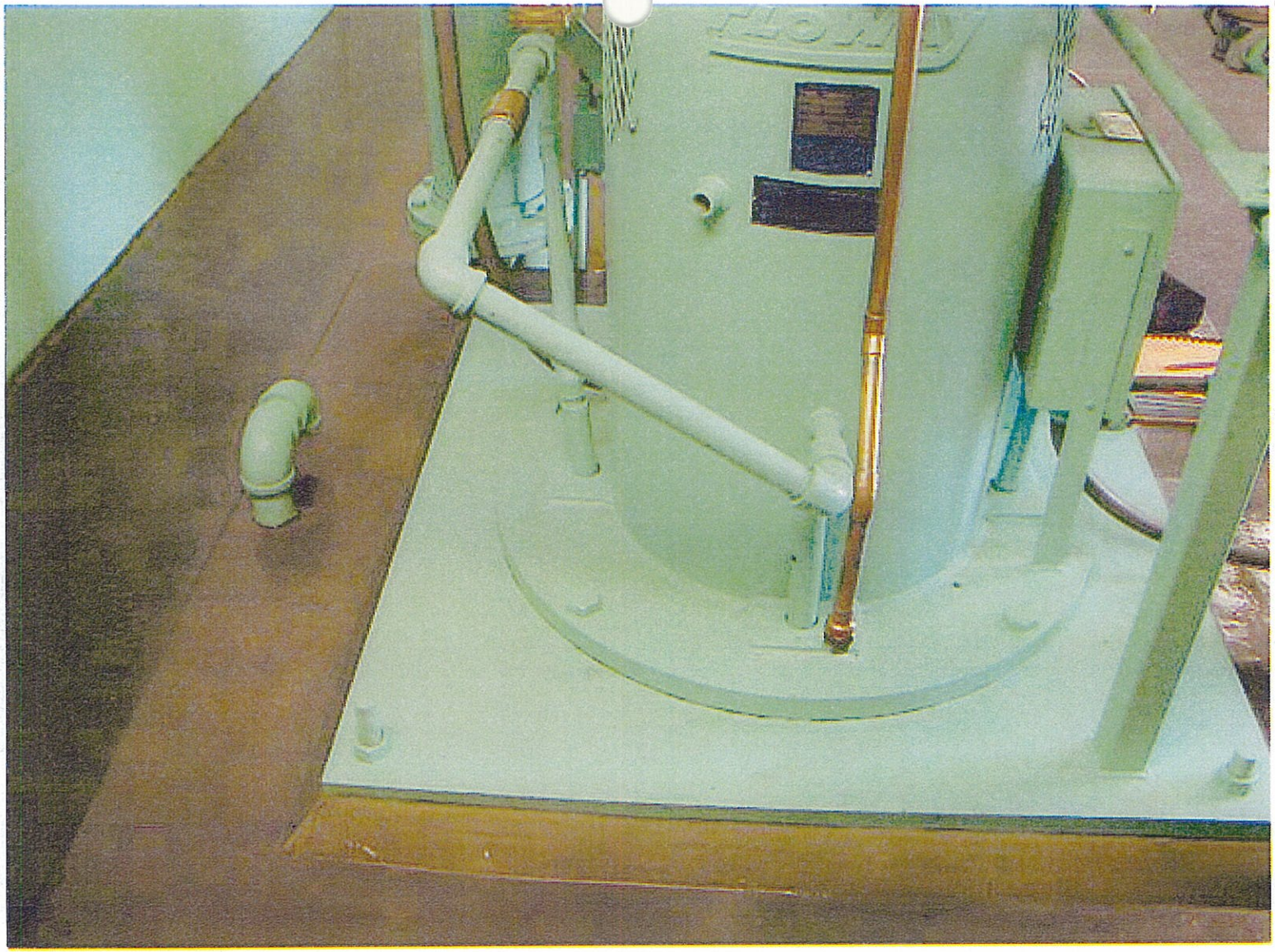
NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

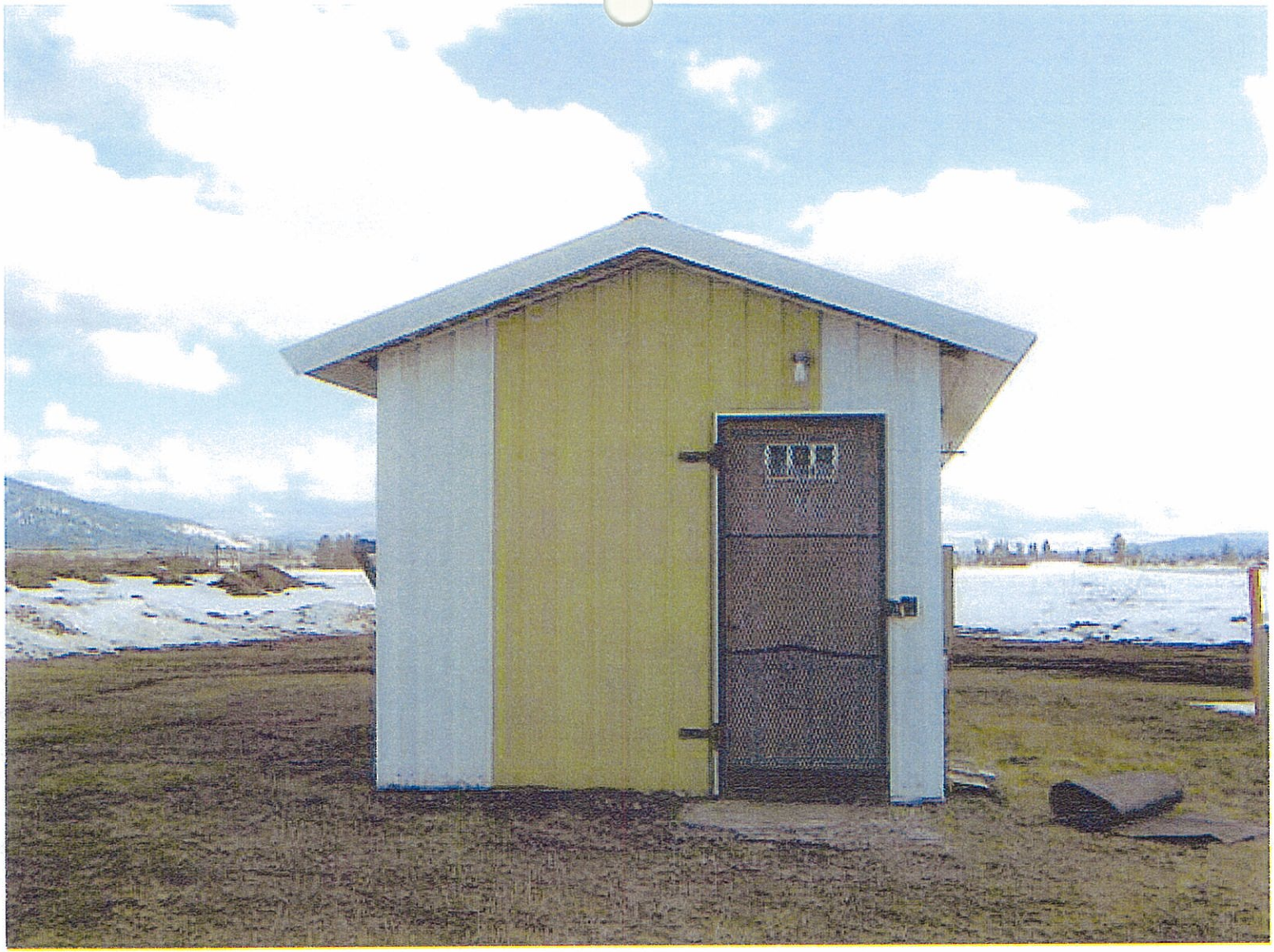
RIMROCK
PWS NO. 1280009

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

as-01\CAD\CAD Projects\11228\dwg\11228DS28.dwg, 4/27/2009 12:58:25 PM, jglazier, 1:2



Lancaster Well 3
EO#009199



Lancaster 1
EO#005154

Kimrock

IDAHO DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

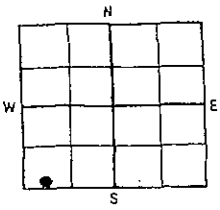
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JUN 17 2002
Department of Water Resources

Office Use Only
Inspected by _____
Twp ___ Rge ___ Sec ___
___ 1/4 ___ 1/4 ___ 1/4
Lat: : Long: : :

WELL TAG NO. D 0022244
DRILLING PERMIT NO. 7-76578
Other IDWR No. Well ID 348420 Water Right 95-8639

2. OWNER:
Name North Kootenai Water Dist
Address 1841 West Hayden Ave
City Hayden State Id. Zip

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.



Twp. 51 N North ☐ or South ☐
Rge. 4 W East ☐ or West ☐
Sec. 2, SE 1/4 (10 acres) SW 1/4 (40 acres) SW 1/4 (160 acres)
Gov't Lot ___ County Kootenai
Lat: : : Long: : :
Address of Well Site Ramsey Rd and Lancaster
(Give at least name of road + Distance to Road or Landmark)
City Hayden

Lt. ___ Blk. ___ Sub. Name ___

4. USE:
☐ Domestic ☒ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other ___

5. TYPE OF WORK check all that apply (Replacement etc.)
☒ New Well ☐ Modify ☐ Abandonment ☐ Other ___

DRILL METHOD
☐ Air Rotary ☒ Cable ☐ Mud Rotary ☐ Other ___

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
Cement + Bentonite	0	60	84 sks	fill bottom up

Was drive shoe used? ☒ Y ☐ N Shoe Depth(s) 400'
Was drive shoe seal tested? ☐ Y ☒ N How? ___

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
16"	+2	348	.375	mild steel	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe 5' Length of Tailpipe 10'

9. PERFORATIONS/SCREENS
Perforations Method ___
Screens 304 Stainless Screen Type Johnson V-wire

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
348	363	125		14"	Stainless	☐	☐
363	368	100		14"	Stainless	☐	☐
368	373	40		14"	Stainless	☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
315 ft. below ground Artesian pressure 0 lb.
Depth flow encountered 318 ft. Describe access port or control devices: plate welded on top with port

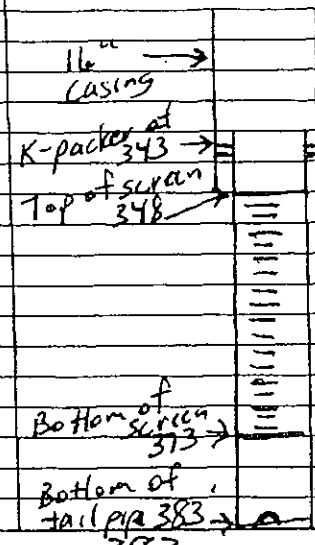
11. WELL TESTS:
☐ Pump ☐ Bailer ☐ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
No test	pump was done by Holt		

Water Temp. N/A Bottom hole temp. ___
Water Quality test or comments: N/A Manganese appeared with bailer sample
Depth first Water Encounter 318

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
20	0	60	sand-gravel cobbles		X
16	60	74	sand-gravel cobbles		X
16	74	124	tight silty sand-gravel		X
16	124	148	Loose sand-gravels		X
16	148	155	tight silty sand-gravel		X
16	155	190	Loose sand + gravel		X
16	190	262	sand-gravel-cobbles-silt		X
16	262	293	Loose sand-gravel cobbles		X
16	293	308	tight silty sand-gravel cobbles		X
16	308	318	Coarse silty sand		X
16	318	375	loose sand-gravel (water)	X	
16	325	378	fine sand	X	
16	378	400	gray sandy silt seams of water	X	



Completed Depth 383 (Measurable)
Date: Started 4/26/02 Completed 6/5/02

13. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Company Name Holt Drilling Inc Firm No. 596
Firm Official Randy Holt Date 6/10/02
and
Driller or Operator Wade Iverson Date 6/10/02
(Sign once if Firm Official & Operator)

Kimrock

Form 238-7
9/82

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

USE TYPEWRITER OR BALLPOINT PEN

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Hayden Pines Water Co

Address PO Box 992 Hayden Id

Owner's Permit No. 95-90-N-17

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe abandonment procedures such as materials, plug depths, etc. in lithologic log)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☑ Municipal
☐ Industrial ☐ Stock ☐ Waste Disposal or Injection
☐ Other _____ (specify type)

4. METHOD DRILLED

☐ Rotary ☐ Air ☐ Hydraulic ☐ Reverse rotary
☑ Cable ☐ Dug ☐ Other _____

5. WELL CONSTRUCTION

Casing schedule: ☑ Steel ☐ Concrete ☐ Other _____

Thickness		Diameter		From		To	
.250	inches	10	inches	1	feet	364	feet
.365	inches	10	inches	364	feet	384	feet
	inches		inches		feet		feet
	inches		inches		feet		feet

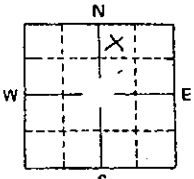
Was casing drive shoe used? ☑ Yes ☐ No
Was a packer or seal used? ☐ Yes ☐ No
Perforated? ☐ Yes ☐ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation _____ inches by _____ inches

Number		From		To	
_____	perforations	_____	feet	_____	feet
_____	perforations	_____	feet	_____	feet
_____	perforations	_____	feet	_____	feet

Well screen installed? ☑ Yes ☐ No
Manufacturer's name Johnson
Type S/S Model No. _____
Diameter 10" Slot size 70 Set from 384 feet to 404 feet
Diameter 8 Slot size 0 Set from 404 feet to 408 feet
Gravel packed? ☐ Yes ☑ No ☐ Size of gravel _____
Placed from _____ feet to _____ feet
Surface seal depth 20' Material used in seal: ☐ Cement grout
☑ Bentonite ☐ Puddling clay ☐ _____
Sealing procedure used: ☐ Slurry pit ☑ Temp. surface casing
☐ Overbore to seal depth
Method of joining casing: ☐ Threaded ☑ Welded ☐ Solvent Weld
☐ Cemented between strata
Describe access port _____

6. LOCATION OF WELL

Sketch map location must agree with written location



Subdivision Name _____

Lot No. _____ Block No. _____

County Kootenai

MICROFILMED
DEC 04 1991

7. WATER LEVEL

Static water level 325 feet below land surface.
Flowing? ☐ Yes ☐ No G.P.M. flow _____
Artesian closed-in pressure _____ p.s.i.
Controlled by: ☐ Valve ☐ Cap ☐ Plug
Temperature _____ °F. Quality _____
Describe artesian or temperature zones below.

8. WELL TEST DATA

☑ Pump ☑ Bailer ☐ Air ☐ Other _____

Discharge G.P.M.	Pumping Level	Hours Pumped
45	325	48 +

9. LITHOLOGIC LOG

Bore Diam.	Depth From	Depth To	Material	Water Yes	Water No
16	0	20	Sand-Gravel-Boulders		✓
10	20	150	Sand & Gravel		✓
	150	160	Coarse Gravel-Boulders		✓
	160	185	Sand		✓
	185	215	Fine Sand		✓
	215	235	Sand & Gravel		✓
	235	265	Coarse Sand		✓
	265	268	Boulders		✓
	268	325	Sand		✓
	325	384	Coarse Sand & Gravel	✓	
	384	386	Coarse Sand & Clay	✓	
	386	408	Coarse & Gravel - Trace of Clay	✓	

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JUN 15 1990
Idaho Dept. of Water Resources

10.

Work started 4-2-90 finished 6-12-90

11. DRILLERS CERTIFICATION

I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name H2O Well Service Firm No. 448

Address Hayden Lake Date 6-12-90

Signed by (Firm Official) John Anderson

and

(Operator) [signature]

Kimrock

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES

WELL DRILLER'S REPORT

USE TYPEWRITER OR BALLPOINT PEN

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

ENT 0

1. WELL OWNER

Name HAYDEN PINES WATER CO.

Address 8601 N. HAYDEN PINES WAY
HAYDEN LAKE IDAHO 83835

Owner's Permit No. 95-80-N-29

2. NATURE OF WORK

☒ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☒ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☒ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 16 inches Total depth 408 feet

Casing schedule: ☒ Steel ☐ Concrete

Thickness	Diameter	From	To
.375 inches	16 inches	+ 2 feet	408 feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet
_____ inches	_____ inches	_____ feet	_____ feet

Was casing drive shoe used? ☒ Yes ☐ No

Was a packer or seal used? ☐ Yes ☒ No

Perforated? ☒ Yes ☐ No

How perforated? ☐ Factory ☒ Knife ☐ Torch

Size of perforation ¼ inches by 4 inches

Number	From	To
960 perforations	376 feet	408 feet
_____ perforations	_____ feet	_____ feet
_____ perforations	_____ feet	_____ feet

Well screen installed? ☒ Yes ☐ No

Manufacturer's name JOHNSON

Type STAINLESS Model No. STD.

Diameter 16 Slot size 125 Set from 376 feet to 408 feet

Diameter _____ Slot size _____ Set from _____ feet to _____ feet

Gravel packed? ☐ Yes ☒ No Size of gravel _____

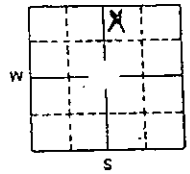
Placed from _____ feet to _____ feet

Surface seal depth 20FT Material used in seal: ☒ Cement grout ☐ Puddling clay ☐ Well cuttings

Sealing procedure used: ☐ Slurry pit ☒ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name _____

Lot No. _____ Block No. _____

County KOOTENAI

NW ¼ NE ¼ Sec. 11 T. 51 N. S. R. 4 E. W.

7. WATER LEVEL

Static water level 335 feet below land surface.

Flowing? ☐ Yes ☒ No G.P.M. flow _____

Temperature 48 °F. Quality GOOD

Artesian closed-in pressure _____ p.s.i.

Controlled by: ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☐ Bailer ☐ Other NO TEST

Discharge G.P.M.	Drawdown	Hours Pumped

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
20	0	20	GRAVEL 2" MIN.		X
16	20	26	BOULDERS		X
16	26	60	GRAVEL 6" MINUS		X
16	60	64	BOULDER		X
16	64	68	GRAVEL 3" MINUS		X
16	68	71	BOULDER		X
16	71	79	GRAVEL 2" MINUS		X
16	79	82	BOULDER		X
16	82	122	GRAVEL 6" MINUS		X
16	122	297	GRAVEL + SAND 3" MINUS		X
16	297	345	SAND + PEA GRAVEL 1" MIN		X
16	345	352		X	
16	352	360	COARSE SAND	X	
16	360	363	BOULDER	X	
16	363	377	PEA GRAVEL + SAND 1" MIN	X	
16	377	408	COARSE SAND + PEA GRAVEL TRACE OF CLAY	X	

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JUL 25 1980
Northern District Office
Department of Water Resources

RECEIVED
JUL 28 1980
Department of Water Resources

10. Work started JAN 28-80 finished JUNE 20-80

11. DRILLERS CERTIFICATION

Firm Name HOLMAN DRILLING CO. Firm No. 108

Address E3410 9TH AVE Date 7-15-80
SPOKANE WA 99202

Signed by (Firm Official) Arnold Holman PRES.

and

HAYDEN ORCHARDS

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SERVICE AREA BOUNDARY

20,000 GALLON RESERVIOR

HAYDEN ORCHARD WELL
EO NO. 005171

(2) 5 HP
BOOSTER PUMPS

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

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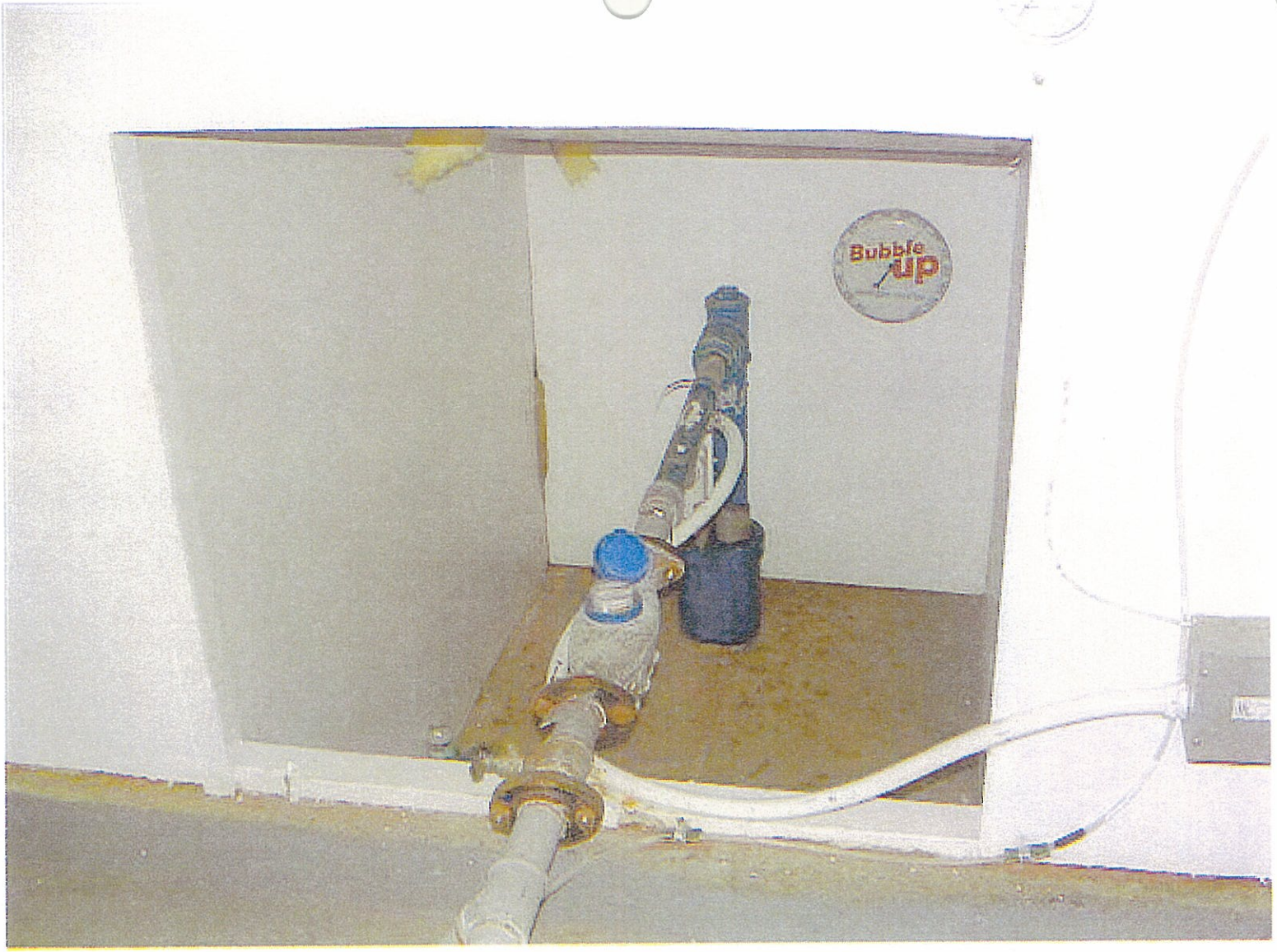
NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

HAYDEN ORCHARD
PWS NO. 1280088

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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Hayden Orchards
EO#005171

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

ENT'D

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

Hayden Orchards

1. WELL OWNER

Name Hayden Pines Water Co
Address Hayden Lake Ida.
Owner's Permit No. 95-77-N-77

2. NATURE OF WORK

■ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☐ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)
■ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

■ Cable ☐ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 380 feet
Casing schedule: ■ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	8 inches	+2 feet	370 feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet

Was casing drive shoe used? ■ Yes ☐ No
Was a packer or seal used? ☐ Yes ■ No
Perforated? ☐ Yes ■ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation ____ inches by ____ inches

Number	From	To
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet

Well screen installed? ■ Yes ☐ No
Manufacturer's name U.S. Johnson
Type Stainless Steel Model No. 304
Diameter 7 5/8 Slot size 60 Set from 370 feet to 372 feet
Diameter 7 5/8 Slot size 120 Set from 372 feet to 380 feet

Gravel packed? ☐ Yes ■ No Size of gravel ____
Placed from ____ feet to ____ feet

Surface seal depth 100' Material used in seal: ☐ Cement grout ■ Puddling clay ☐ Well cuttings
Sealing procedure used ☐ Slurry pit ■ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location. 95

N / W / E / S

Subdivision Name Hayden Orchards
Lot No. 9 & 10 Block No. 1
County Kootenai
NE ¼ SE ¼ Sec. 14 T. 51 N R. 4 W

7. WATER LEVEL

Static water level 305 feet below land surface
Flowing? ☐ Yes ■ No G.P.M. flow ____
Temperature ____ ° F. Quality ____
Artesian closed-in pressure ____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ■ Bailer ☐ Other

Discharge G.P.M.	Draw-Down	Hours Pumped
30	0	4

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
16	0	20	Gravel & Sand		✓
16	20	21	Gravel large 4" mines		✓
10	21	26	Gravel large 4" mines & Sand		✓
	26	29	Belden		✓
	29	68	Gravel & Sand		✓
	68	71	Belden		✓
10	71	97	Gravel Coarse & Sand		✓
8	97	260	Gravel Sand & Silt		✓
	260	280	Gravel 3" mines		✓
	280	281	Gravel 1" mines		✓
	281	283	Red Gravel		✓
	283	302	Gravel 4" mix. & Sand		✓
	302	307	Gravel 2" mines & Sand		✓
	307	310	C/2y & Sand. Tight		✓
	310	311	water	✓	
	311	317	C/2y Brown w/Sand & Gravel	✓	
	317	320	Gravel Coarse & Sand	✓	
	320	332	Belden	✓	
	332	354	Gravel 2" mix. & Sand	✓	
	354	366	Gravel 1" mix. & Sand	✓	
	366	370	Sand Silt Pose. Tight	✓	
	370	380	Red Gravel & Coarse Sand	✓	

12391

10.

Work started 5/8/77 finished 7/7/77

11. DRILLER'S CERTIFICATION

Firm Name E.B. Holman Drilling Co Firm No. 105
Address Rt. 1 Box 5 Pines Rd Spokane Wash. Date 7/7/77
Signed by (Firm Official) E.B. Holman Jr.
and
(Operator) Al Bitton

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE COPY TO THE DEPARTMENT

CHILCO

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SERVICE AREA BOUNDARY

SERVICE AREA BOUNDARY

SERVICE AREA BOUNDARY

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

(1) 10 HP BOOSTER PUMP
(1) 7.5 HP BOOSTER PUMP

CHILCO 2 WELL
EO NO. 005186

CHILCO 1 WELL
EO NO. 005189

10,000 GALLON
RESERVIOR

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(fax) 208-664-5946

NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

CHILCO
PWS NO. 1280048

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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Chilco 1
EO#005189



Chilco 1 (EO#005189)
&
Chilco 2 (EO#005186)

Chilco

Form 238-7
7/94

POSTED

IDAHO DEPARTMENT OF WATER RESOURCES
WELL DRILLER'S REPORT

Use Typewriter
or
Ball Point Pen

95-94-N-0257-000

1. DRILLING PERMIT NO. 95 - 94 - N - 0257 - 000
Other IDWR No. 95-07827

2. OWNER:
Name HAYDEN PINES WATER CO
Address PO BOX 992
City HAYDEN State ID Zip 83835

3. LOCATION OF WELL by legal description:
Sketch map location must agree with written location.

N / W / E / S

Twp. 52 North ☒ or South ☐
Rge. 03 East ☐ or West ☒
Sec. 07 , SE 1/4 SE 1/4 NE 1/4
(10 acres / 40 acres / 160 acres)
Gov't Lot ____ County KOOTENAI

Address of Well Site ACROSS STREET FROM
21800 ESTATES DR City ATHOL
(Give at least name of road + Distance to Road or Landmark)

Lt. ____ Blk. ____ Sub. Name CHILCO ESTATES

4. PROPOSED USE:
☒ Domestic ☐ Municipal ☐ Monitor ☐ Irrigation
☐ Thermal ☐ Injection ☐ Other

5. TYPE OF WORK
☒ New Well ☐ Modify or Repair ☐ Replacement ☐ Abandonment

6. DRILL METHOD
☐ Mud Rotary ☒ Air Rotary ☐ Cable ☐ Other

7. SEALING PROCEDURES

SEAL/FILTER PACK Material	From	To	AMOUNT Sacks or Pounds	METHOD
CEMENT	0	80	300 LBS	SLURRY

Was drive shoe used? ☐ Y ☒ N Shoe Depth(s) ____
Was drive shoe seal tested? Y ☐ N ☒ How? ____

8. CASING/LINER:

Diameter	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
12	+2	147	.250	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe ____ Length of Tailpipe ____

9. PERFORATIONS/SCREENS
☒ Perforations Method SAW CUT
☐ Screens Screen Type ____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
130	145	1/16	160	12	STEEL	☐	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:
____ ft. below ground Artesian pressure ____ lb.
Depth flow encountered ____ ft. Describe access port or control devices:

SESE NE 7 52N 3W

11. WELL TESTS:
☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gal./min.	Drawdown	Pumping Level	Time
100+			4 HRS

Water Temp. COLD Bottom hole temp. ____
Water Quality test or comments: LITTLE CLOUDY

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Bore Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Water Y	Water N
14	0	1	TOPSOIL BROWN SOFT		X
14	1	10	LARGE COBBLES W/CLAY TAN SOFT		X
14	10	14	GRAVEL W/COBBLE BROWN SOFT		X
14	14	18	LARGE COBBLES W/LITTLE GRAVELS TAN MED.		X
12	18	20	BOULDER DARK MED. HARD		X
12	20	40	LARGE GRAVELS W/COBBLE TAN SOFT		X
12	40	68	GRAVEL CEMENT GRAYISH MED.		X
12	68	102	GRAVEL W/SAND TAN MED. SOFT	X	
12	102	128	GRAVEL W/CLAY LENSES GRAYISH MED SOFT	X	
12	128	145	PEA GRAVEL BROWN MED. SOFT	X	
12	145	147	CEMENT GRAVEL TAN SOFT	X	
			1x12" Welded on cap		

RECEIVED
DEC 19 1994
IDWR

Completed Depth 147 (Measurable)
Date: Started 11/26/94 Completed 11/29/94

13. DRILLER'S CERTIFICATION
I/We certify that all minimum well construction standards were complied with at the time the rig was removed.

Firm Name H2O WELL SERVICE, INC. Firm No. 449
Firm Official [signature] Date 12/14/94
and
Supervisor or Operator Mark D. Lee Date 12/14/94
(Sign once if Firm Official & Operator)

FORWARD WHITE COPY TO WATER RESOURCES

Chilco

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, **Department of Water Resources** within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name Charles A Ford

Address Hayden Lake Idaho

Owner's Permit No. 95-78-N-31

2. NATURE OF WORK

■ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

■ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or injection

4. METHOD DRILLED

■ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 10 inches Total depth 136 feet

Casing schedule: ☐ Steel ☐ Concrete

Thickness	Diameter	From	To
330 inches	10 inches	+ 2 feet	136 feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet

Was casing drive shoe used? ■ Yes ☐ No

Was a packer or seal used? ☐ Yes ■ No

Perforated? ■ Yes ☐ No

How perforated? ☐ Factory ■ Knife ☐ Torch

Size of perforation 3/8 inches by 3/4 inches

Number		From	To
105	perforations	120 feet	127 feet
[redacted]	perforations	[redacted] feet	____ feet
43	perforations	130 feet	134 feet

Well screen installed? ☐ Yes ■ No

Manufacturer's name ____

Type ____ Model No. ____

Diameter ____ Slot size ____ Set from ____ feet to ____ feet

Diameter ____ Slot size ____ Set from ____ feet to ____ feet

Gravel packed? ☐ Yes ■ No Size of gravel ____

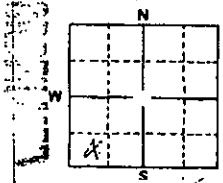
Placed from ____ feet to ____ feet

Surface seal depth 10 Material used in seal ☐ Cement grout ■ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ■ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name ____

Lot No. ____ Block No. ____

County Kootenai

SW ¼ SW ¼ Sec. 3, T. 52 N/S, R. 3 E/W

7. WATER LEVEL

Static water level 75 feet below land surface

Flowing? ☐ Yes ■ No G.P.M. flow ____

Temperature ____ ° F. Quality ____

Artesian closed-in pressure ____ p.s.i.

Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ■ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
100	0	4

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
12	0	3	Top Soil		✓
✓	3	12	Gravel & Sand		✓
✓	12	18	Gravel Sand & Clay		✓
12	18	56	Gravel & Sand		✓
10	56	72	Gravel Sand & Clay		✓
			Very Tight		✓
	72	75	Gravel Large Boulders		✓
	75		Water	✓	
	75	90	Gravel Coarse Sand & Silt	✓	
	90	96	Gravel & Fine Sand	✓	
	96	134	Gravel Lots Sand Coarse with Silt	✓	
	134	136	Gravel Sand & Clay		✓

RECEIVED
MAY 3 1978
Water Resources
Regional Office

10. Work started March 29-78 finished April 12-78

11. DRILLERS CERTIFICATION

Firm Name E.H. Holmes Drilling Co Firm No. 105

Address Coeur d'Alene Idaho Date 4-18-78

Signed by (Firm Official) E.H. Holmes

and

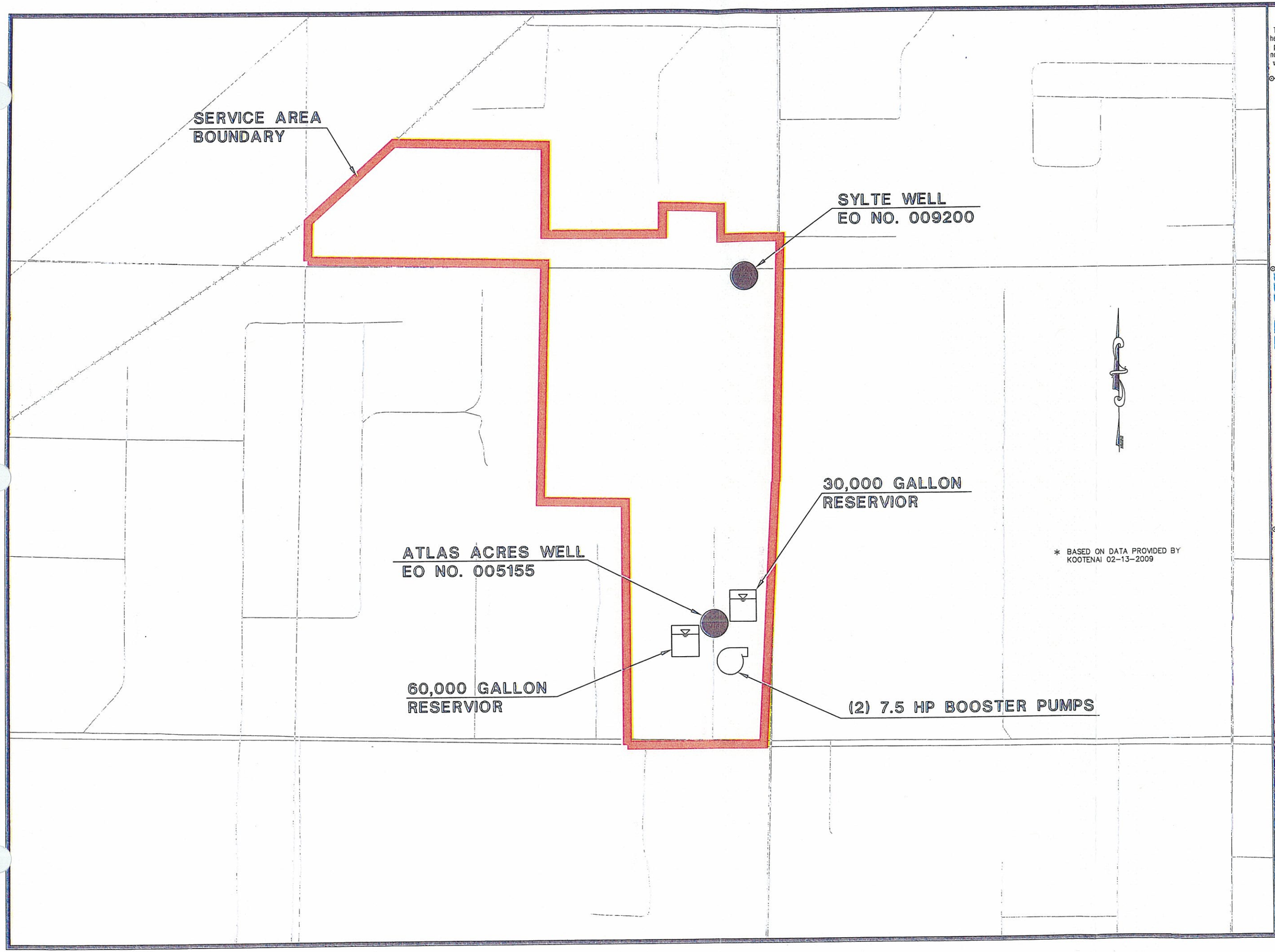
(Operator) [redacted]

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE COPY TO THE DEPARTMENT

Tax No. 10,521 Book 283, Page 748 - 6/23/77

A parcel of land in Lots 7 and 8 of the plat of Hayden Haven, in Section 10, Township 51 North, Range 3 West, Boise Meridian, Kootenai County, Idaho, more particularly described as follows: Commencing at the Northeast corner of Lot seven of the above mentioned plat; thence S. 21° 14' W. a distance of 307.70 feet to the True Point of Beginning; thence S. 21°14' W. along the East line of said lot seven a distance of 97.00 feet to the shoreline of Hayden Lake; thence along the shorelands of Hayden Lake, N. 61°13'58" W. a distance of 100.85 feet, more or less, to a point on the west line of said lot seven ; thence along the shorelands of Hayden Lake N. 89°02'09" W. a distance of 80.11 feet, more or less, to a point on the west line of said lot eight; thence along the west line of said lot eight N. 21°14' E. a distance of 111.58 feet; thence S. 68°46' E. a distance of 175.12 feet to the Point of Beginning.

ATLAS ACRES



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NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199 AND 95-9217

ATLAS ACRES
PWS NO. 1280005

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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Atlas Acres
EO#005155

Atlas Acres

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

State law requires that this report be filed with the Director, **Department of Water Resources within 30** days after the completion or abandonment of the well.

1. WELL OWNER

Name Rena A. Sorlie & Joe R. Boone

Address 103 Sherman Ave. CDA, Ida.

Owner's Permit No. 95-28-N-46 (838814)

2. NATURE OF WORK

■ New well ☐ Deepened ☐ Replacement

☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

■ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)

☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

■ Cable ☐ Rotory ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 308 feet

Casing schedule: ■ Steel ☐ Concrete

Thickness	Diameter	From	To
250 inches	8 inches	+2 feet	308 feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet

Was casing drive shoe used? ■ Yes ☐ No

Was a packer or seal used? ☐ Yes ■ No

Perforated? ■ Yes ☐ No

How perforated? ☐ Factory ■ Knife ☐ Torch

Size of perforation 3/8" inches by 1 1/4 inches

Number		From		To	
175	perforations	289	feet	306	feet
____	perforations	____	feet	____	feet
____	perforations	____	feet	____	feet

Well screen installed? ☐ Yes ■ No

Manufacturer's name ____

Type ____ Model No. ____

Diameter ___ Slot size ___ Set from ____ feet to ____ feet

Diameter ___ Slot size ___ Set from ____ feet to ____ feet

Gravel packed? ☐ Yes ■ No Size of gravel ____

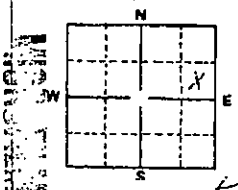
Placed from ____ feet to ____ feet

Surface seal depth 100 Material used in seal ☐ Cement grout ■ Puddling clay ☐ Well cuttings

Sealing procedure used ☐ Slurry pit ■ Temporary surface casing ☐ Overbore to seal depth

6. LOCATION OF WELL 95

Sketch map location must agree with written location.



Subdivision Name ____

Lot No. ____ Block No. ____

County Kootenai

SE ¼ NE ¼ Sec. 28, T. 52 N/S, R. 1 E/W

7. WATER LEVEL

Static water level 253 feet below land surface

Flowing? ☐ Yes ■ No G.P.M. flow ____

Temperature ____ ° F. Quality ____

Artesian closed-in pressure ____ p.s.i.

Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ■ Bailer ☐ Other

Discharge G.P.M.	Draw Down	Hours Pumped
60 +	0	5

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
12	0	9	Gravel / Large Boulders		✓
/	9	18	Gravel Large		✓
12	18	31	Boulders (Chert)		✓
10	31	44	Gravel Large 6" Cobbles		✓
10	44	48	Boulders (Chert)		✓
10	48	100	Gravel & Sand		✓
8	100	114	Gravel & Sand		✓
/	114	118	Boulders (Quartzite)		✓
/	118	166	Gravel & Sand		✓
/	166	179	Cobble Stones		✓
/	179	198	Sand Fine		✓
8	198	203	Clay w/Sand		✓
/	203	218	Sand Fine		✓
/	218	225	Clay & Sand		✓
8	225	232	Clay & Gravel		✓
/	232	243	Gravel 1" Cobbles w/Sand		✓
/	243	257	Gravel Clay Tight	✓	
/	257	265	Gravel & Sand	✓	
8	265	279	Gravel 3/4" w/ Sand	✓	
8	279	308	Gravel Large 6" Cobbles with Gravel & Sand	✓	

Dept. of Water Resources Northern District Office

10. Work started 7-May-1978 finished 10-June-1978

11. DRILLERS CERTIFICATION

Firm Name E.A. Holman Drilling Co Firm No. 105

Address Col. State Rt. Hayden, Ida. Date June 11-78

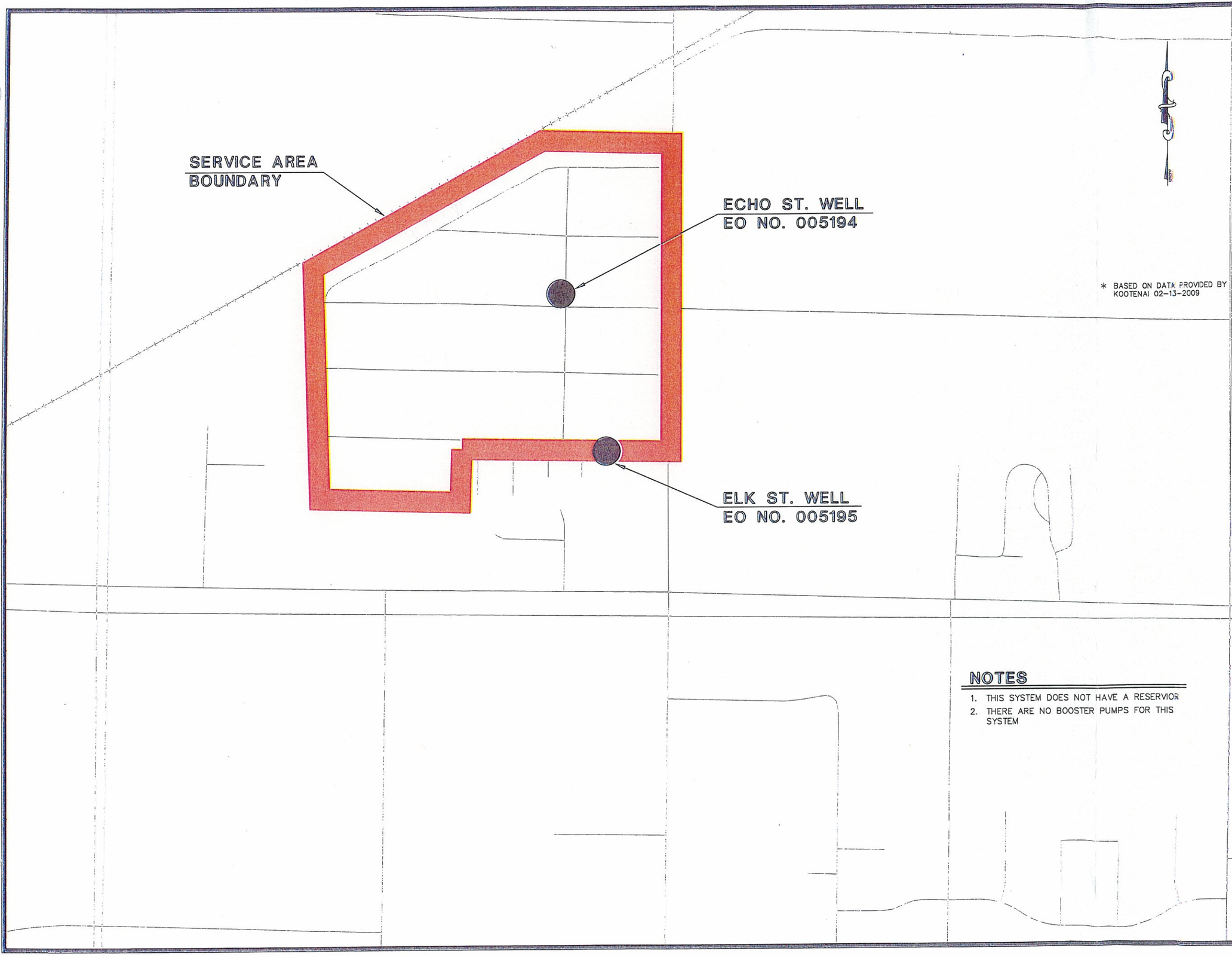
Signed by (Firm Official) E.A. Holman

and

(Operator) Steve Sherwood

USE ADDITIONAL SHEETS IF NECESSARY FORWARD THE WHITE COPY TO THE DEPARTMENT

MOUNTAIN VIEW



NOTES

1. THIS SYSTEM DOES NOT HAVE A RESERVIOR
2. THERE ARE NO BOOSTER PUMPS FOR THIS SYSTEM

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(toll free) 877-815-5672
(fax) 208-664-5946

NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT

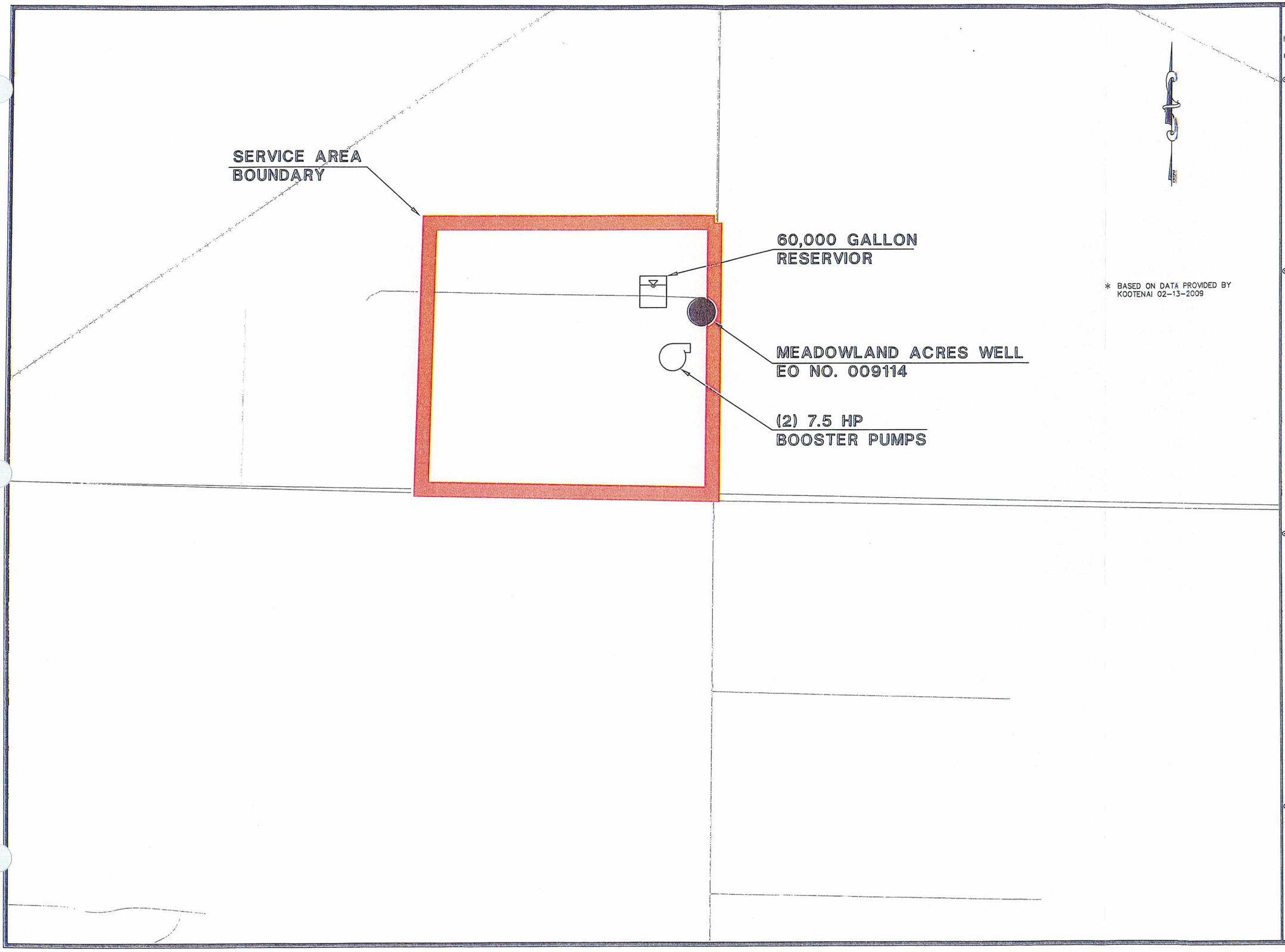
WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199 AND 95-9217

MOUNTAIN VIEW TERRACE
PWS NO. 1280123

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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MEADOWLAND ACRES



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NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

MEADOWLAND ACRES
PWS NO. 1280277

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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VALLEY GREEN

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VALLEY GREEN WELL
EO NO. 005166

30,000 GALLON
RESERVIOR

SERVICE AREA
BOUNDARY

(2) 7.5 HP
BOOSTER PUMPS

* BASED ON DATA PROVIDED BY
KOOTENAI 02-13-2009

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NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

VALLEY GREEN
PWS NO. 1280195

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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valley green

USE TYPEWRITER OR BALL POINT PEN

State of Idaho
Department of Water Resources

WELL DRILLER'S REPORT

POSTED N

State law requires that this report be filed with the Director, Department of Water Resources within 30 days after the completion or abandonment of the well.

1. WELL OWNER

Name EBORALL REALTY, INC.
Address HIWAY 95N COEUR D'ALENE, IDA.
Owner's Permit No. 95-77-N-157

2. NATURE OF WORK

☑ New well ☐ Deepened ☐ Replacement
☐ Abandoned (describe method of abandoning)

3. PROPOSED USE

☑ Domestic ☐ Irrigation ☐ Test ☐ Other (specify type)
☐ Municipal ☐ Industrial ☐ Stock ☐ Waste Disposal or Injection

4. METHOD DRILLED

☑ Cable ☑ Rotary ☐ Dug ☐ Other

5. WELL CONSTRUCTION

Diameter of hole 8 inches Total depth 390 feet
Casing schedule: ☑ Steel ☐ Concrete

Thickness	Diameter	From	To
.250 inches	8 inches	+ 15 feet	390 feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet
____ inches	____ inches	____ feet	____ feet

Was casing drive shoe used? ☑ Yes ☐ No
Was a packer or seal used? ☐ Yes ☑ No
Perforated? ☐ Yes ☑ No
How perforated? ☐ Factory ☐ Knife ☐ Torch
Size of perforation ____ inches by ____ inches

Number	From	To
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet
____ perforations	____ feet	____ feet

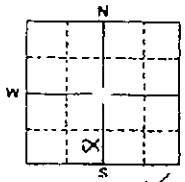
Well screen installed? ☑ Yes ☐ No
Manufacturer's name JOHNSON
Type 8" X 15' TELESCOPE Model No. ____
Diameter 8" Slot size .30 Set from 375 feet to 390 feet
Diameter ___ Slot size ___ Set from ____ feet to ____ feet

Gravel packed? ☐ Yes ☑ No Size of gravel ____
Placed from ____ feet to ____ feet

Surface seal depth 20' Material used in seal ☑ Cement grout ☑ Puddling clay ☑ Well cuttings
Sealing procedure used ☐ Slurry pit ☑ Temporary surface casing ☑ Overbore to seal depth

6. LOCATION OF WELL

Sketch map location must agree with written location.



Subdivision Name VALLEY GREEN
Lot No. 7 Block No. 2
County KOOTENAI

7. WATER LEVEL

Static water level 299 feet below land surface
Flowing? ☐ Yes ☐ No G.P.M. flow ____
Temperature ____ ° F. Quality ____
Artesian closed-in pressure ____ p.s.i.
Controlled by ☐ Valve ☐ Cap ☐ Plug

8. WELL TEST DATA

☐ Pump ☑ Bailer ☑ Other AIR

Discharge G.P.M.	Draw Down	Hours Pumped
100	0	7

9. LITHOLOGIC LOG

Hole Diam.	Depth From	Depth To	Material	Water Yes	Water No
8	0	2	TOP SOIL		✓
	2	59	COURSE GRAVEL		✓
	59	65	BOULDERS W/GRAVEL		✓
	65	190	COURSE GRAVEL W/COBBLES		✓
	190	196	GRAVEL W/CLAY		✓
	196	270	COURSE GRAVEL		✓
	270	276	GRAVEL W/CLAY		✓
	276	295	MEDIUM GRAVEL		✓
	295	300	GRAVEL W/SAND		✓
	300	310	CLAY		✓
	310	320	SAND W/ CLAY	✓	
	320	325	MEDIUM GRAVEL	✓	
	325	335	FINE GRAVEL W/SAND	✓	
	335	345	SAND W/CLAY	✓	
	345	360	SAND & GRAVEL	✓	
	360	361	CLAY	✓	
	361	375	SAND W/CLAY	✓	
	375	390	SAND & GRAVEL	✓	

RECEIVED APR 7 1980 Department of Water Resources Northern District Office

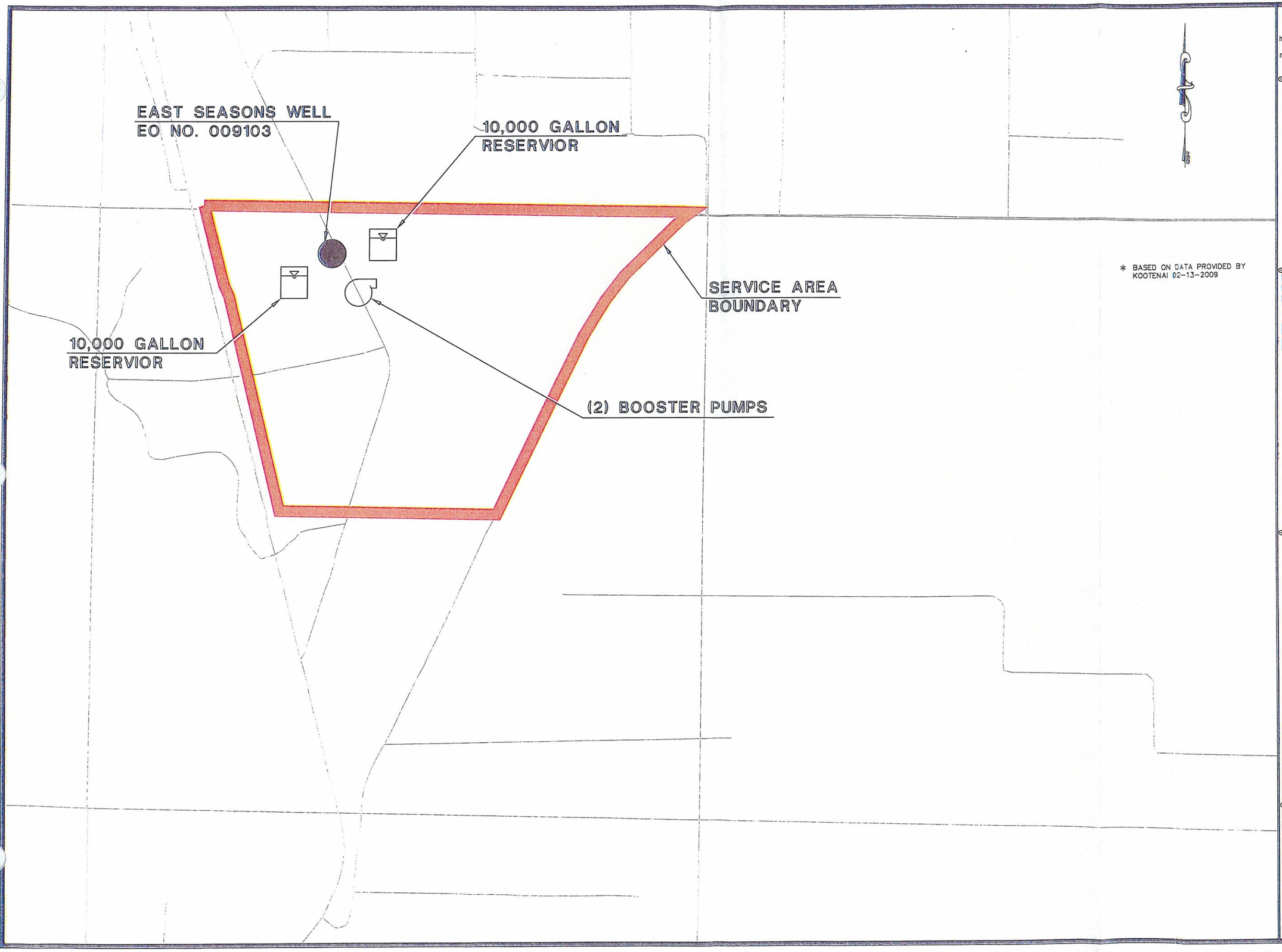
10.

Work started 10-25-76 finished 11-77

11. DRILLERS CERTIFICATION

Firm Name ASSOCIATED WELL DRILLERS Firm No. 245
Address P.O. BOX 723 COA. IDA. Date 12-77
Signed by (Firm Official) Byd Thornton
and (Operator) Gary D. [illegible]

EAST SEASONS ACRES



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NORTH KOOTENAI WATER DISTRICT

WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199 AND 95-9217

EAST SEASONS ACRES
PWS NO. 1280278

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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RANCH VALLEY

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SERVICE AREA BOUNDARY

RANCH VALLEY WELL
EO NO. 009217

* BASED ON DATA PROVIDED BY KOOTENAI 02-13-2009

NOTES

1. THIS SYSTEM DOES NOT HAVE A RESERVOIR
2. THERE ARE NO BOOSTER PUMPS FOR THIS SYSTEM

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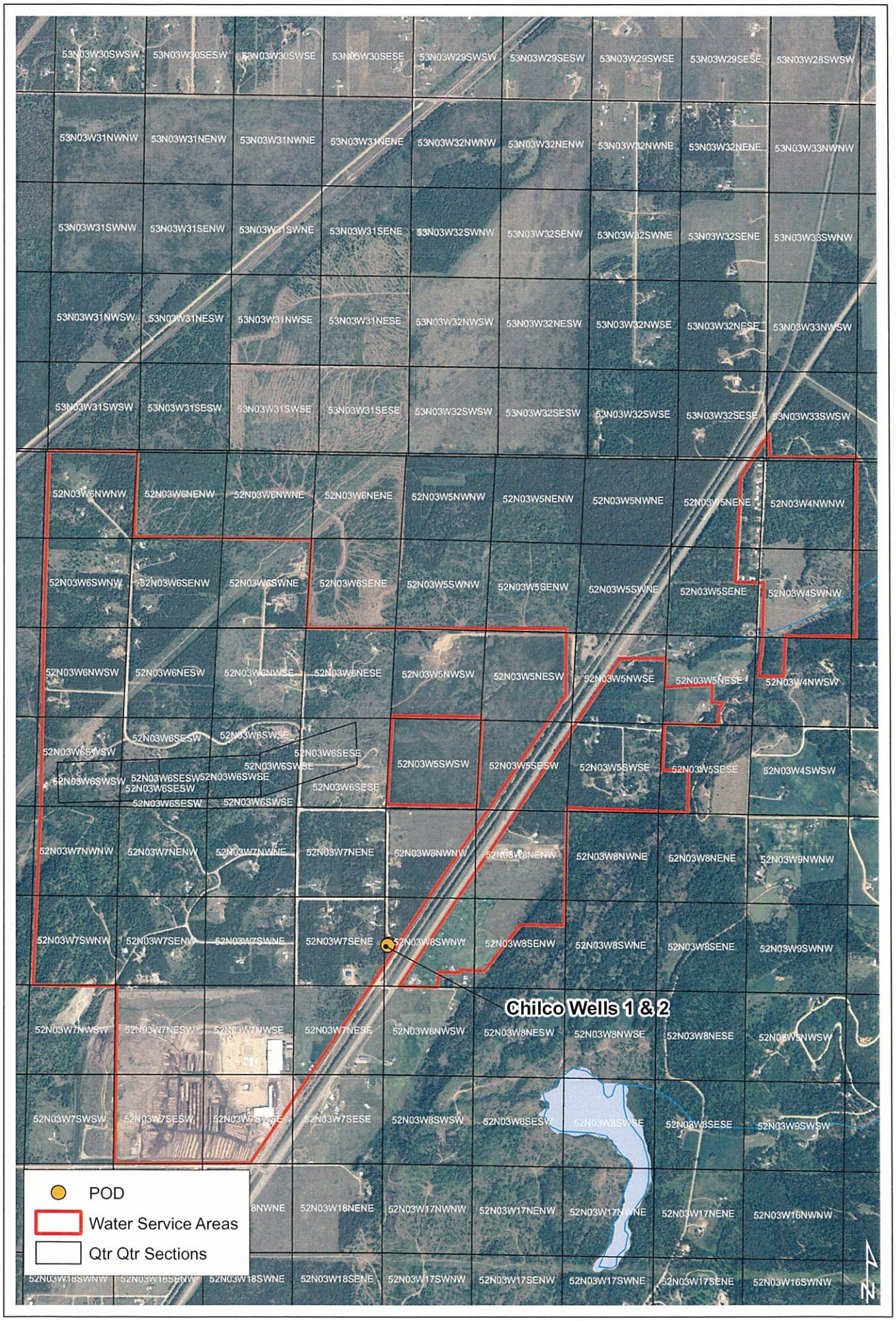
NO.	DATE	REVISION DESCRIPTION	BY

NORTH KOOTENAI WATER DISTRICT
WATER RIGHT EXAMINATION
PERMIT NO. 95-8639, 95-9199
AND 95-9217

RANCH VALLEY
PWS NO. 1280151

PROJECT NO.:	11228
DESIGNED BY:	KJO
DRAWN BY:	SDS/JLG
CHECKED BY:	
DWG NAME:	11228DS28.dwg
DATE:	04-27-09
SHEET NO:	

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North Kootenai Water District

Map of Project: Attachment #2

Chilco

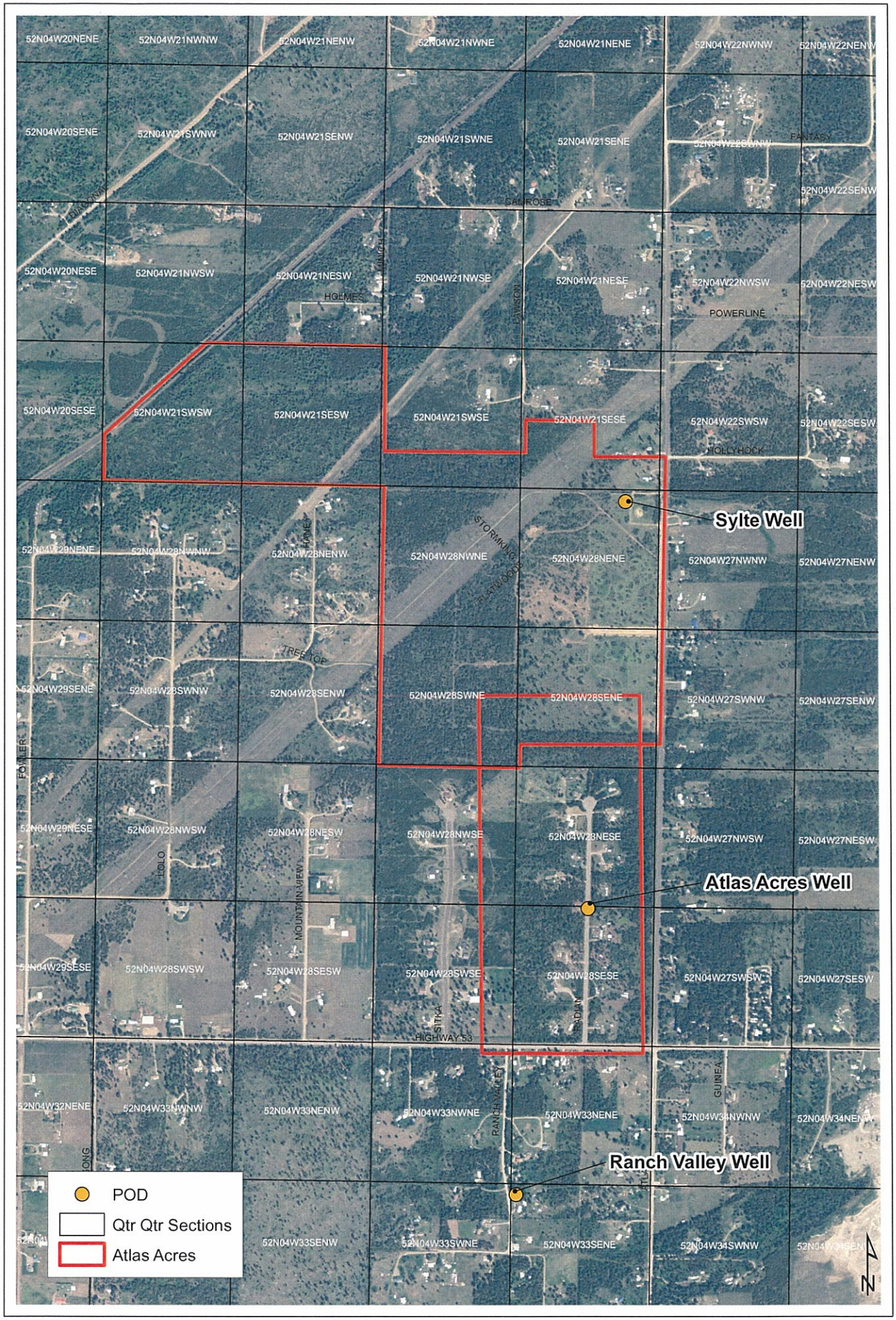
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SOURCES:
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USDA-FSA Aerial Photography Field Office

PROJECT NO. 11228
CREATED BY. TT
FILENAME ChilcoQtrQtrSec_11x17.mxd
DATE 08/13/2009



North Kootenai Water District

Map of Project: Attachment #2

Atlas Acres

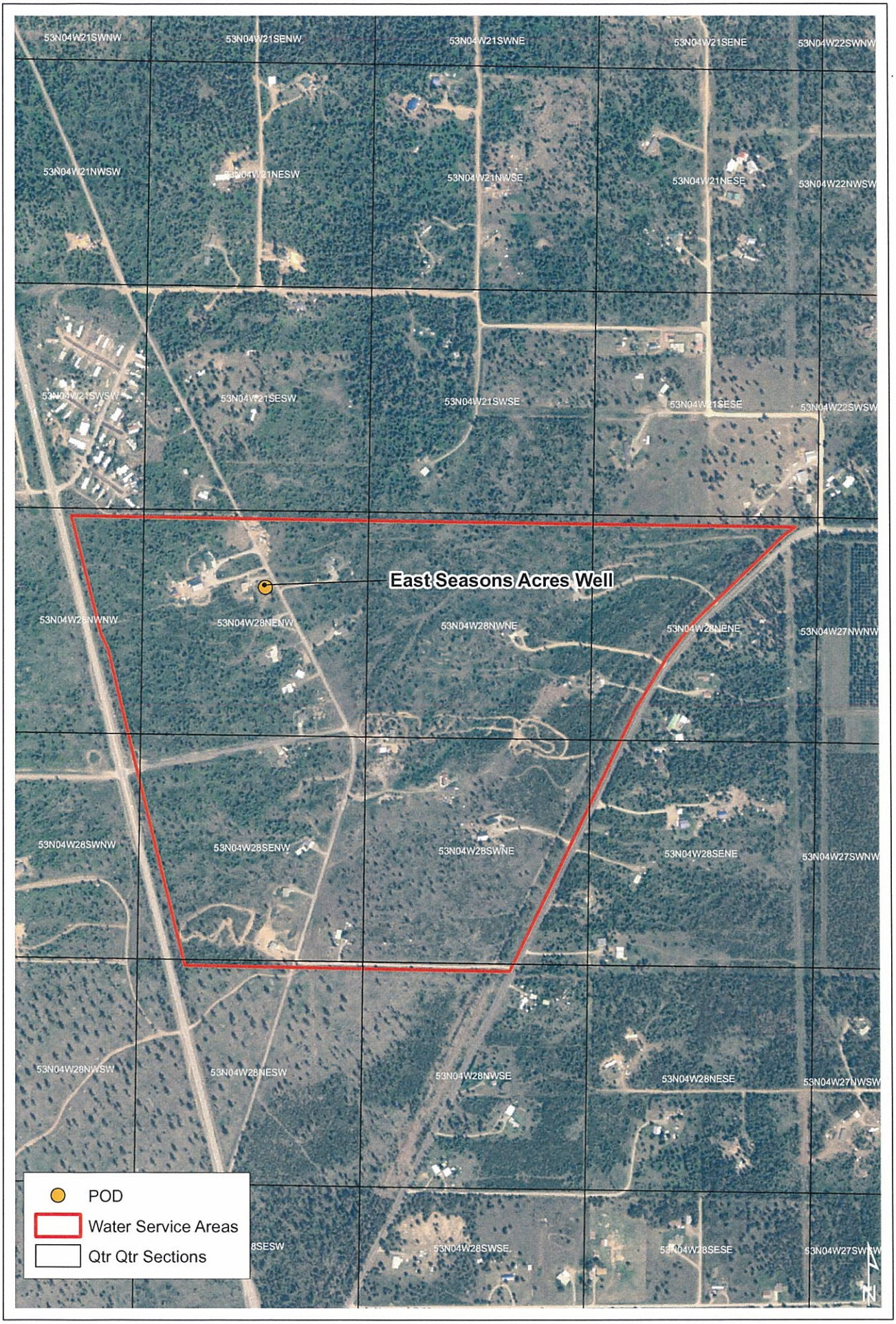
0 405 810 1,620 2,430 3,240 Feet

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PROJECT NO. 11228
CREATED BY. TT
FILENAME. AtlasAcresQtrQtrSec_11x17.mxd
DATE. 08/24/2009



North Kootenai Water District

Map of Project: Attachment #2
East Seasons Acres

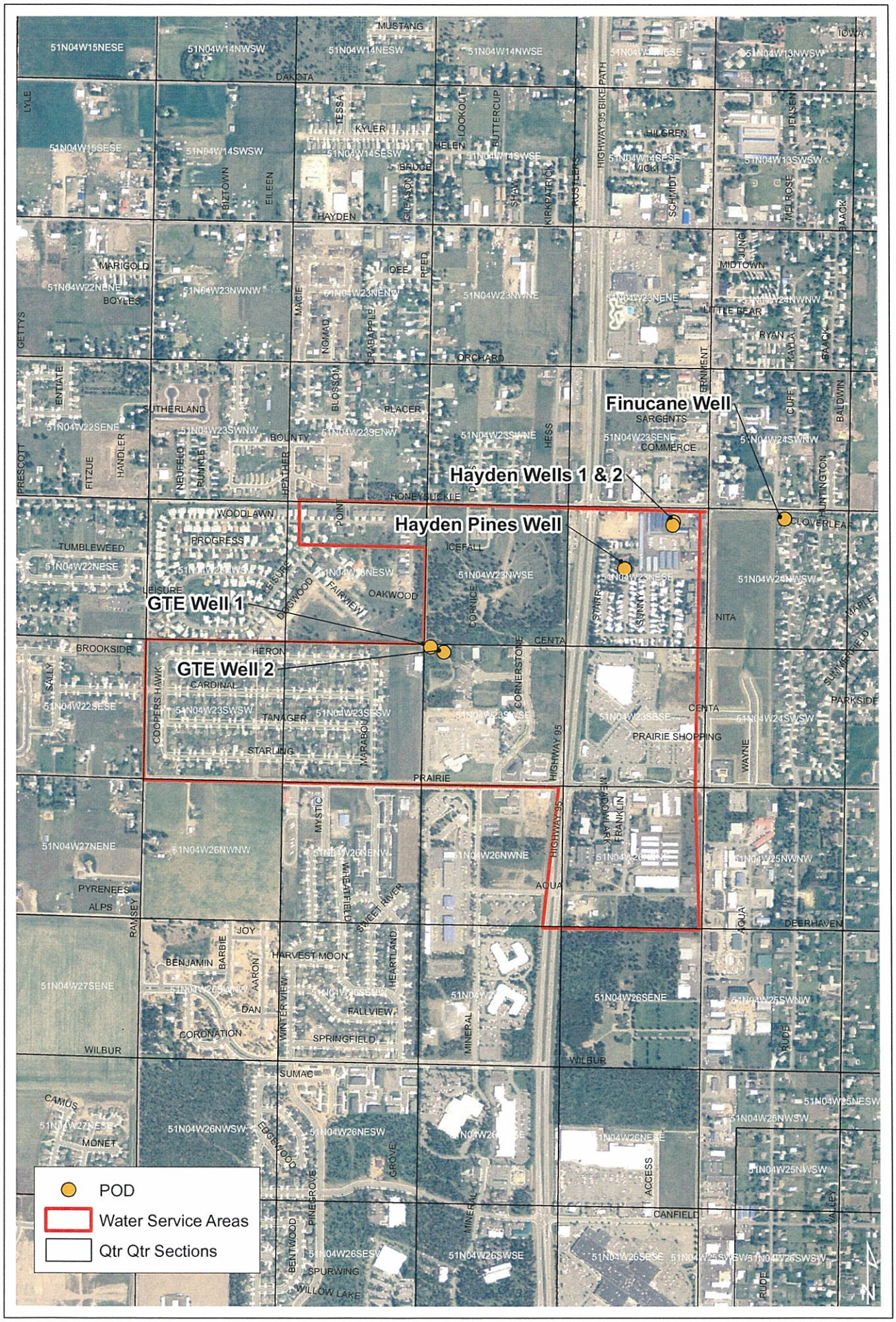
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0 125 250 500 750 1,000
Feet

PROJECT NO. 11228
CREATED BY. TT
FILENAME. EastSeasonsAcresQtrQtrSec_11x17.mxd
DATE. 08/13/2009



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Map of Project: Attachment #2

GTE/Hayden Pines

0 405 810 1,620 2,430 Feet

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CREATED BY. TT
FILENAME. GTEHaydenPinesQtrQtrSec_11x17.mxd
DATE. 08/13/2009



North Kootenai Water District

Map of Project: Attachment #2

Haydens Orchards

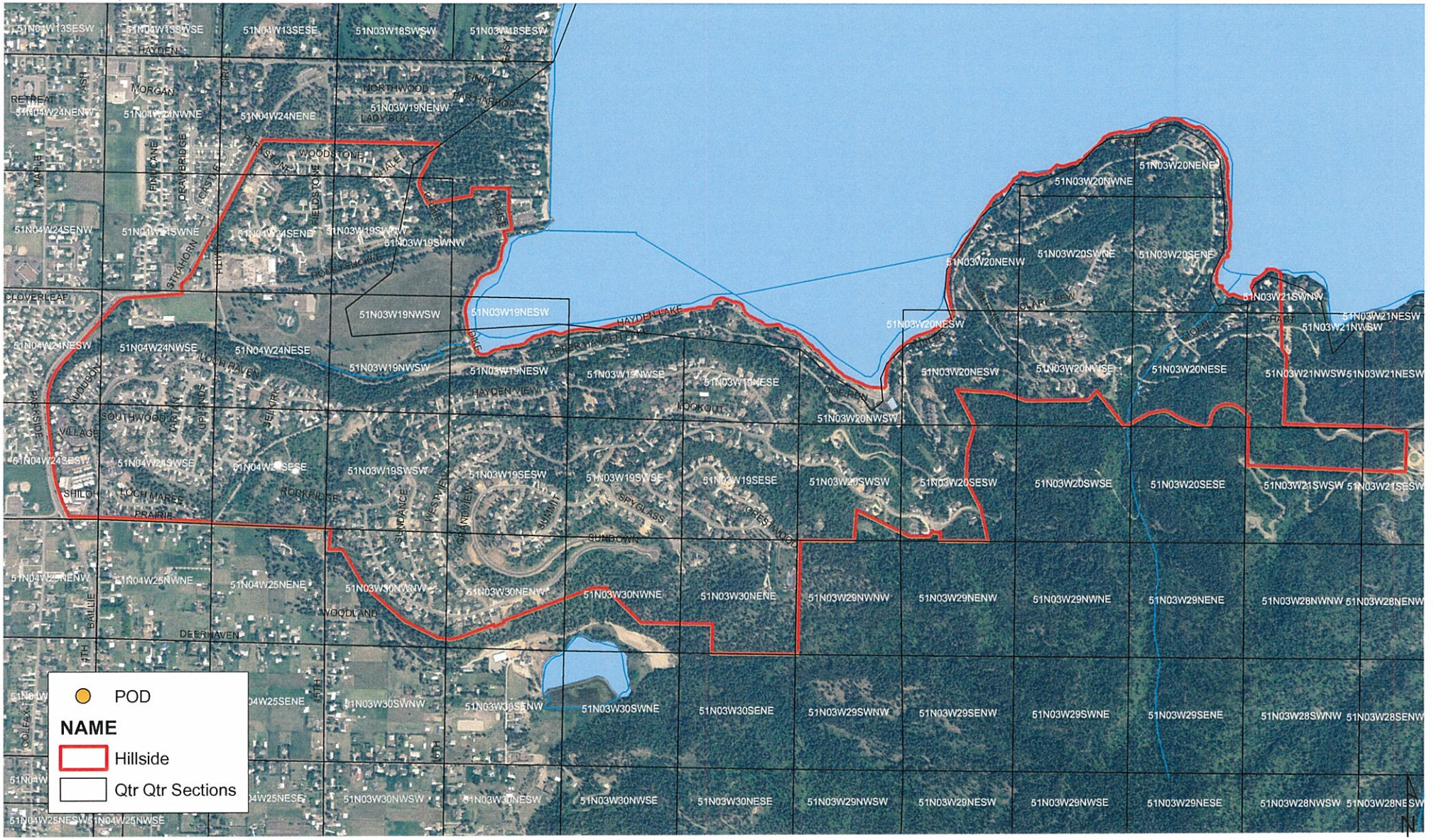
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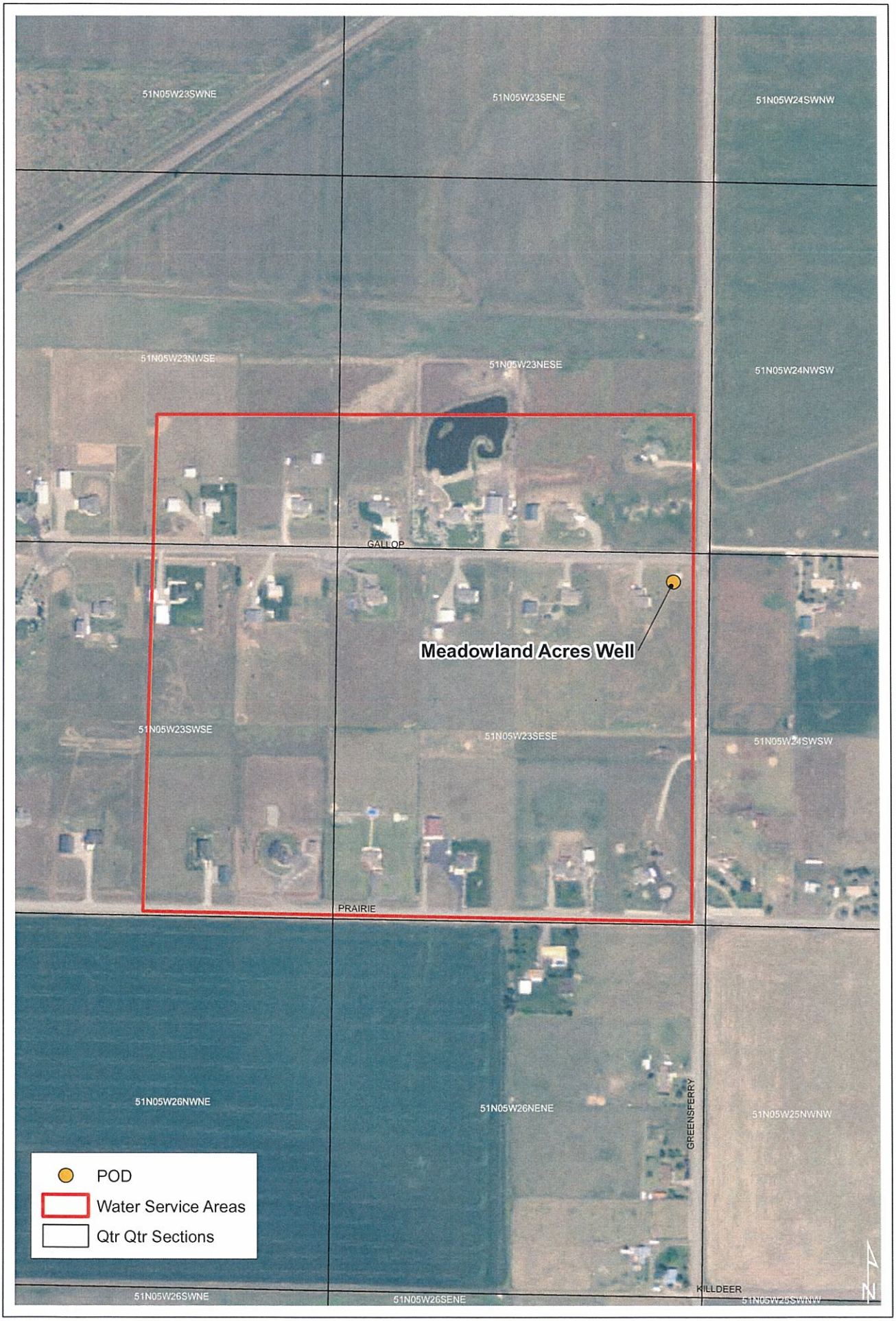
North Kootenai Water District

Map of Project: Attachment #2
Hillside

0 500 1,000 2,000 3,000 4,000 Feet

SOURCES:
Kootenai County GIS Department
North Kootenai Water District
USDA-FSA Aerial Photography Field Office

PROJECT NO.....11228
CREATED BY.....TT
FILENAME.....HillsideQtrQtrSec_11x17.mxd
DATE.....08/13/2009



North Kootenai Water District

Map of Project: Attachment #2

Meadowland Acres

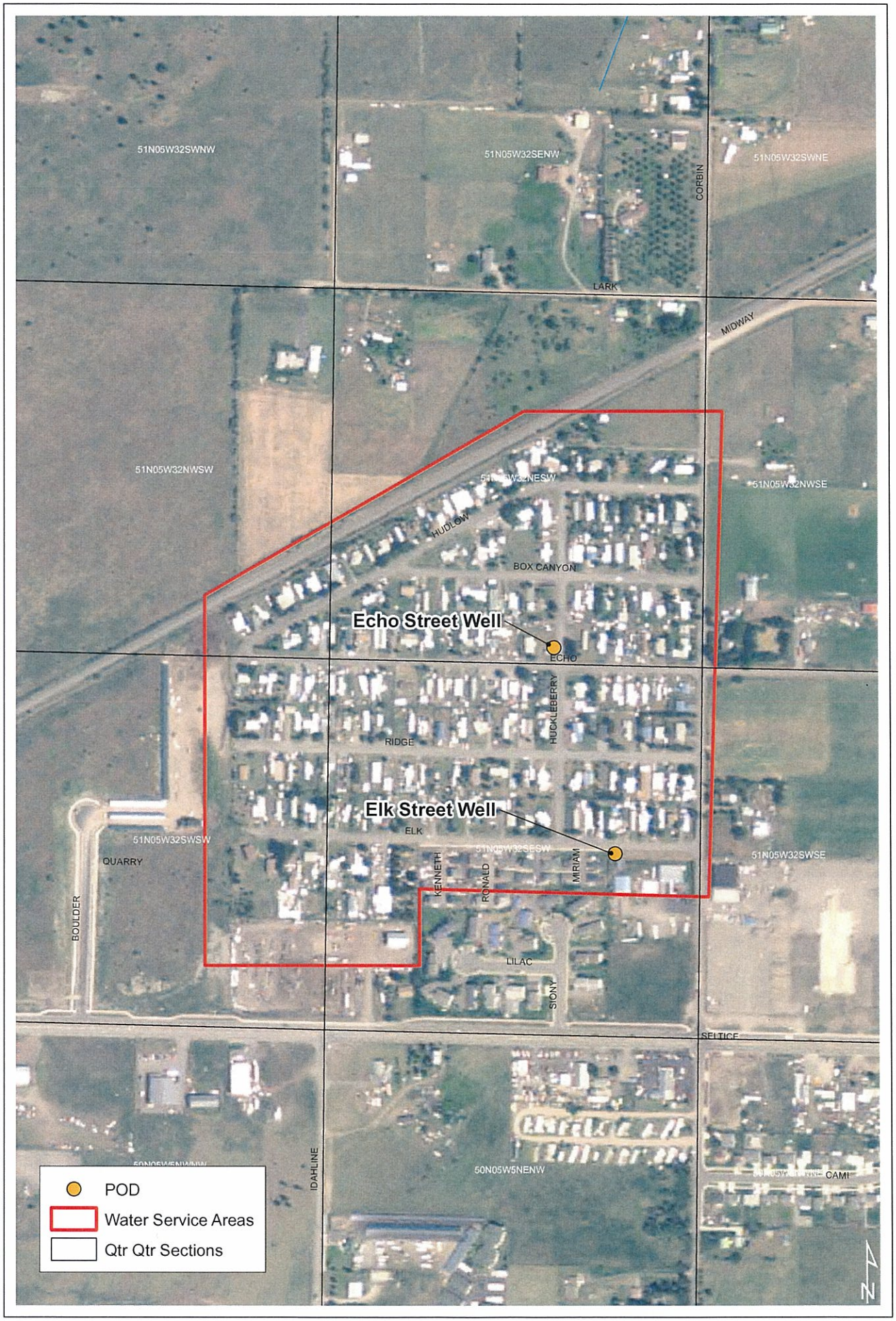
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CREATED BY. TT
FILENAME. MeadowlandAcresQtrQtrSec_11x17.mxd
DATE. 08/13/2009



North Kootenai Water District

Map of Project: Attachment #2

Mountain View Terrace

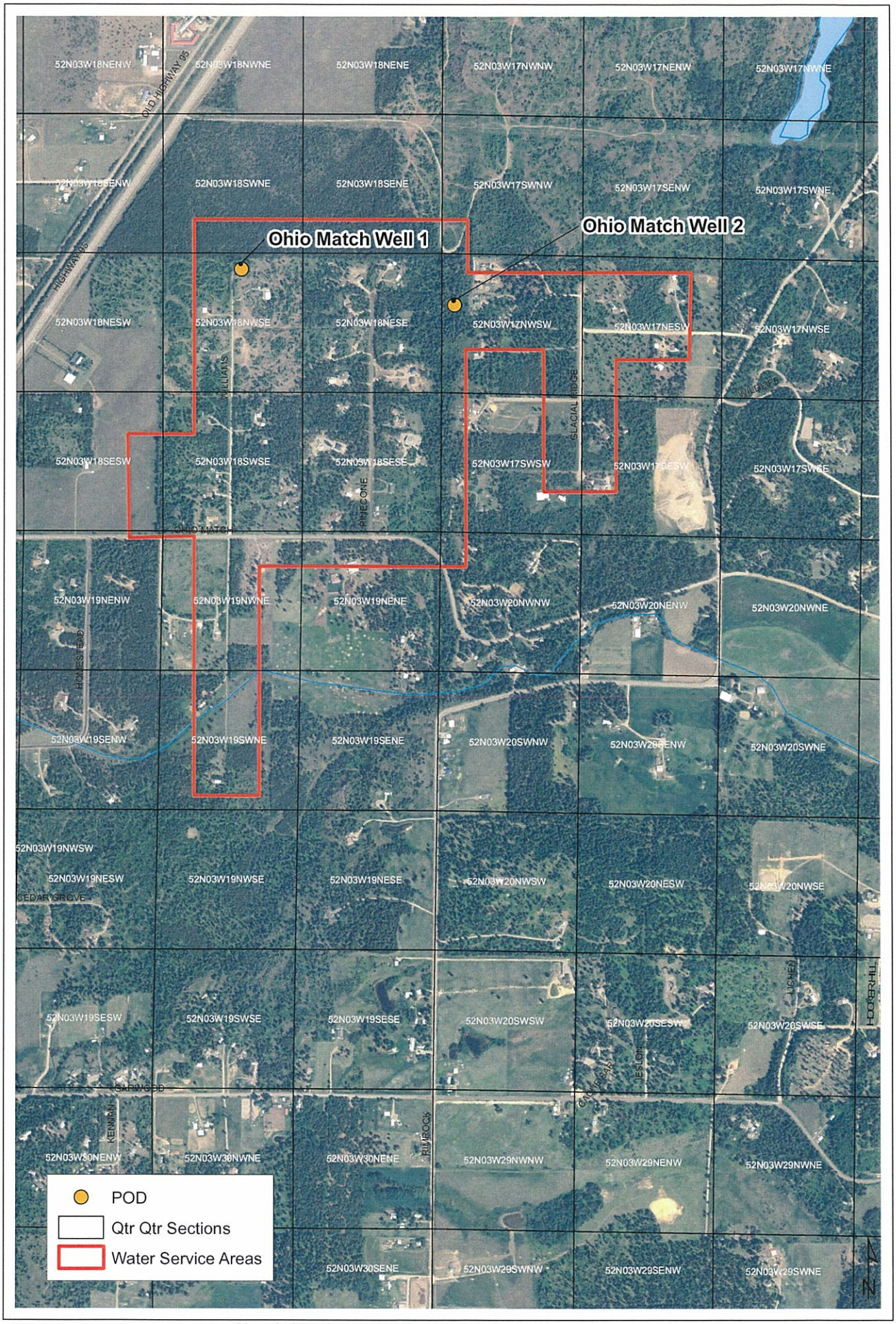
0 155 310 620 930 Fee

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FILENAME MtnViewTerraceQtrQtrSec_11x17.mxd
DATE 08/13/2009



North Kootenai Water District
Place of Use: Attachment #2
Ohio Match

0 412.5 825 1,650 2,475 3,300 Feet

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DATE. 08/13/2009



North Kootenai Water District

Map of Project: Attachment #2
Ranch Valley

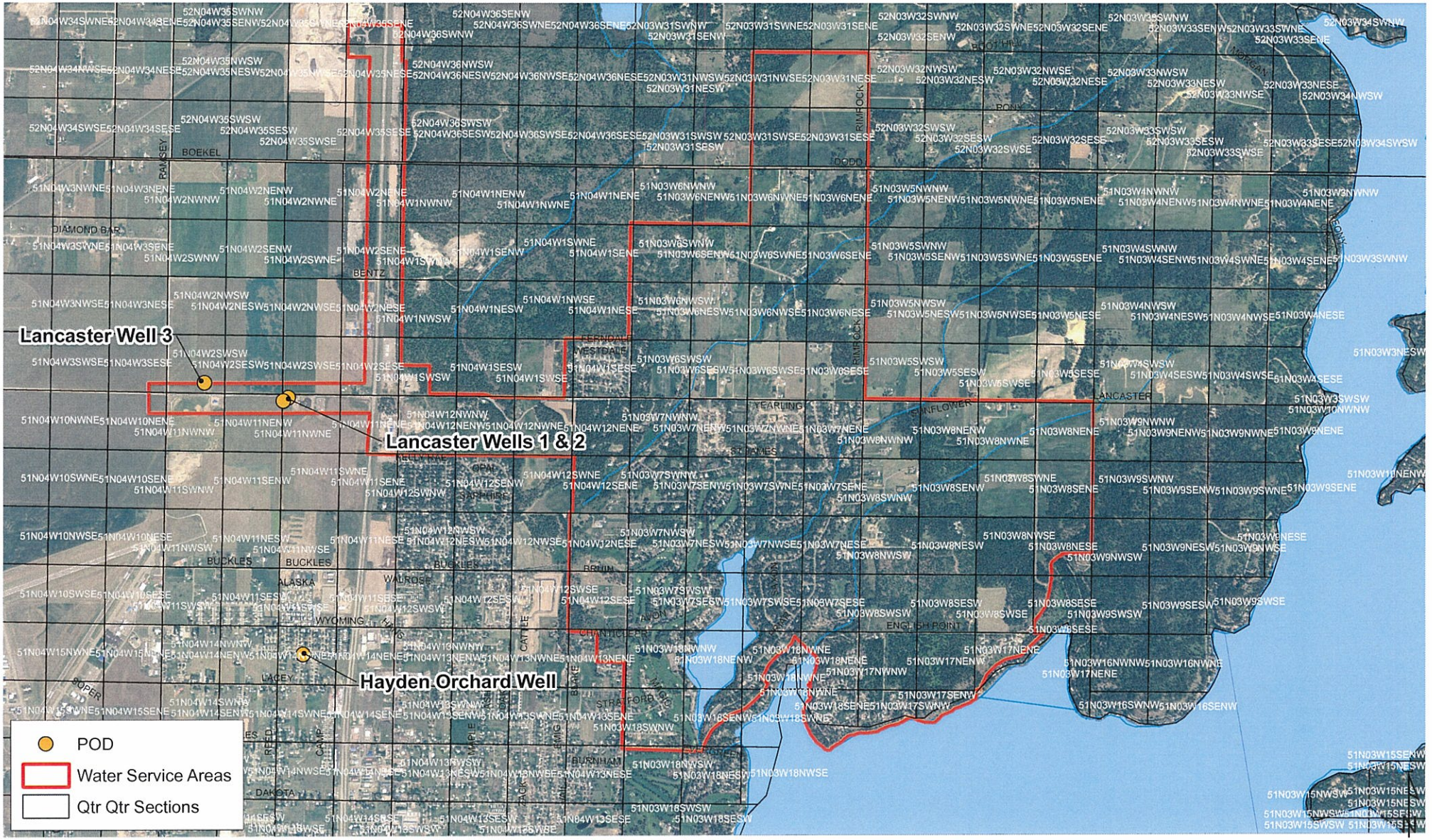
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SOURCES:
Kootenai County GIS Department
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USDA-FSA Aerial Photography Field Office

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CREATED BY TT
FILENAME RanchValleyQtrQtrSec_11x17.mxd
DATE 08/13/2009

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North Kootenai Water District

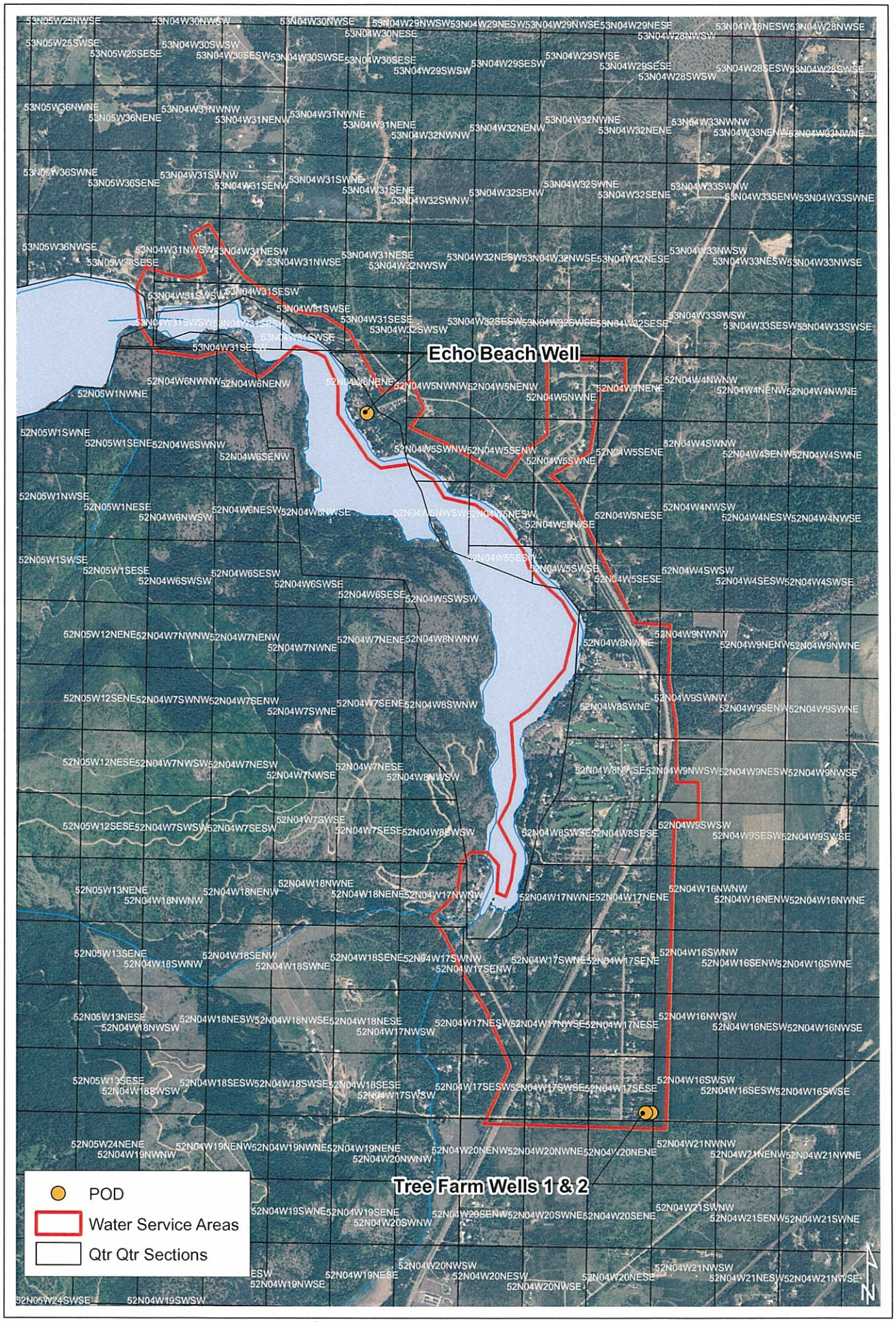
Map of Project: Attachment #2

Rimrock

0 1,000 2,000 4,000 6,000 8,000 Feet

SOURCES:
Kootenai County GIS Department
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USDA-FSA Aerial Photography Field Office

PROJECT NO. 11228
CREATED BY: TT
FILENAME: RimrockQtrQtrSec_11x17.mxd
DATE: 08/13/2009



North Kootenai Water District

Map of Project: Attachment #2

Twin Lakes

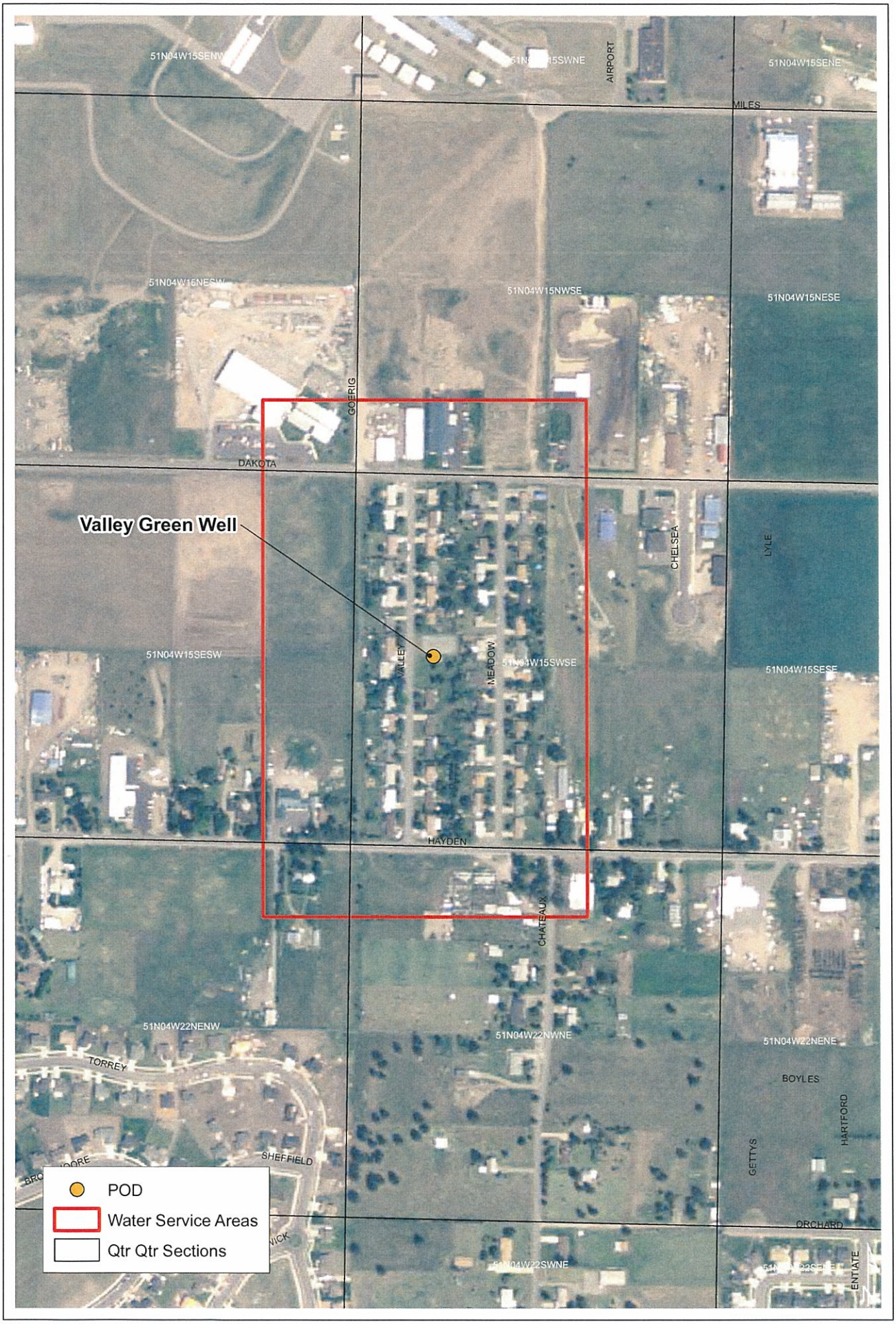
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0 450 900 1,800 2,700 3,600 Feet

PROJECT NO. 11228
CREATED BY. TT
FILENAME TwinLakesQtrQtrSec_11x17.mxd
DATE 08/13/2009



North Kootenai Water District

Map of Project: Attachment #2

Valley Green

0 162.5 325 650 975 Feet

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PROJECT NO.....11228
CREATED BY.....TT
FILENAME.....ValleyGreenQtrQtrSec_11x17.mxd
DATE.....08/13/2009