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A. GENERAL INFORMATION

Exam Date: 9/10/2008

- ## B. OVERLAP REVIEW

- ### C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

Method of Determination: Site Visit

2. PLACE OF USE: DOMESTIC

[illegible]

Method of Determination:

3. ☒ Delivery System Diagram Attached (required). Indicate all major components and distances between components. Indicate weir size/pipe as applicable.
- ☒ Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.
- ☒ Aerial Photo Attached (required for irrigation of 10+ acres).
- ☒ Photo of Diversion and System Attached

4.

<u>Well or Diversion</u> <u>ID No.*</u>	<u>Motor Make</u>	<u>Hp</u>	<u>Motor Serial No.</u>	<u>Pump Make</u>	<u>Pump Serial No. or Discharge</u> <u>Size</u>
407171	GOULDS	15		GOULDS	

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

D. FLOW MEASUREMENTS

1.

<u>Measurement</u> <u>Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>
GE PAMMERRICS	ULTRASONIC		AT 878			

2. Measurements:

AVERAGE FLOW RATE: 1935 GPM

$$1935 \text{ GPM} \left(\frac{0.02 \text{ CFS}}{9 \text{ GPM}} \right) = 0.43 \text{ CFS}$$

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

THEORETICAL

$$Q = \frac{8.8(44)(0.70)}{\text{LIFT} + (151(2.31))}$$

① LIFT CALCULATED BY SUBTRACTING THE STATIC WATER LEVEL BY THE TOTAL WELL DEPTH, DIVIDING THAT BY 2, THEN ADDING THAT NUMBER TO THE STATIC LEVEL TO GET ESTIMATED PUMPING LEVEL

$$(120' - 59') / 2 + 59' = 89.5'$$

② 100' ELEVATION GAIN TO WELL HOUSE, 189.5' TOTAL LIFT

③ 10 PSI ADDED FOR FRICTION LOSS

$$Q = \frac{8.8(15)(0.70)}{189.5 + (10(2.31))} = 0.43 \text{ CFS}$$

F. VOLUME CALCULATIONS**1. Volume Calculations for Irrigation:**

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 =$$

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

2. Volume Calculations for Other Uses:**G. NARRATIVE/REMARKS/COMMENTS**

37-8877 and 37-21435 are for domestic use at Bluegrouse Ridge Subdivision 4 miles North of Hailey. Originally applicant proposed to divert 0.22 cfs, the amount covered by 37-8877. 37-21435 for 0.17 cfs was later filed to cover the additional rate the well could produce.

Point of diversion is in the NENE T03N R18E Section 20. During examination a total of 16 lots were found to be connected to the system. Only area allowing irrigation outside of home lots is the single entry way lot as authorized by 37-21435.

A average flow of 193.58 or 0.43 cfs was measured using a the Panametrics meter. A theoretical analysis yields 0.43 cfs verifying the rate measured during the exam. The system will be limited to a total of 0.39 cfs: 0.22 cfs for 37-8877 and 0.17 cfs for 37-21435.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
DOMESTIC	1/01 to 12/31	0.22 CFS (37-8877)	
		0.19 CFS (37-21435)	
<u>Totals:</u>		0.39 CFS	

2. Recommended Amendments

 Change P.D. as reflected above 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 Nick Van Dyke Date 2/10/08

Reviewer Nick Van Dyke Date 3/2/09

Log Name D:\salmon river stuff\9-10-08 data\37-8787.LOG
Log Title D:\salmon river stuff\9-10-08 data\37-8787.LOG
Start Time 9/10/2008 13:05
End Time 9/10/2008 13:13
Records 3
Interval 60
Error Flags 8208
Cyclic Flags 2

Measurement for field exam 37-8787 by Dan Nelson and Nick Van Dyke

Item#	Label	Symbol	Unit type	Channel	Comport	Computer	Decimal	Width	Input	NodeID
0	Velocity	ft/s	578	0	0	PT878	4	12	2	0
1	Volume	gal/m	846	0	0	PT878	4	12	3	0
2	(+)Total	gal	1160	0	0	PT878	4	12	20	0

Date/Time	Velocity(ft/s)	Volume(gal/m)	(+)Total(gal)	Error#
9/10/2008 13:05:15	4.29	195.06	1061467.122	0
9/10/2008 13:06:15	4.29	194.94	1061657.742	0
9/10/2008 13:07:15	4.27	194.16	1061854.768	0
9/10/2008 13:08:15	4.27	194.00	1062045.089	0
9/10/2008 13:09:15	4.27	194.09	1062241.710	0
9/10/2008 13:10:15	4.27	194.09	1062431.702	0
9/10/2008 13:11:15	4.26	193.59	1062628.071	0
9/10/2008 13:12:16	4.28	194.24	1062827.757	0
9/10/2008 13:13:15	4.28	194.44	1063015.798	0

Last Total	First Total	Number of Readings	Average Flow Rate in GPM
1063015.798	1061467.122	8	193.58

IDAHO DEPARTMENT OF WATER RESOURCES WELL DRILLER'S REPORT

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

1. WELL TAG NO. D - 0037012

DRILLING PERMIT NO. 836697

Other IDWR No. 37-21435

2. OWNER

Name SEA BOARD PROPERTIES INC.

Address P.O. BOX 3510

City Ketchum State ID Zip 83340

3. LOCATION OF WELL by legal description:

Sketch map location must agree with written location

N		E		S		W	

Twp. 3 ☒ North or ☐ South
 Rge. 18 ☒ East or ☐ West
 Sec. 20 SW 1/4 NE 1/4 NE 1/4
 Gov't Lot _____ County BLAINE
 Lat: : : _____ Long: : : _____

Address of Well Site 3/4 E IF HWY 75 ON OHIO GULCH ROAD

(Give at least name of road + Distance to Road or Landmark)

City HAILEY

Lt. _____ Blk. _____ Sub. Name BLUE GROUSE

Well Lot #A

4. USE:

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

5. TYPE OF WORK check all that apply (replacement ect.)

☒ New Well ☐ Modify ☐ Abandonment ☐ Other

6. DRILL METHOD

☒ Air Rotary ☐ Cable ☐ Mud Rotary ☐ Other

7. SEALING PROCEDURES

Seal/Filter Pack			Amount		Method
Material	From	To	Sacks or Pounds		
BENT	0	60	6350 LBS		OVERBORE

Was drive shoe used? ☒ Y ☐ N Shoe depth(s) _____Was drive shoe seal tested? ☐ Y ☒ N How? _____

8. CASING/LINER

Dia.	From	To	Gauge	Material	Casing	Liner	Welded	Threaded
8	±3	120	322	STEEL	☒	☐	☒	☐
					☐	☐	☐	☐
					☐	☐	☐	☐

Length of Headpipe _____

Length of Tailpipe _____

9. PERFORATIONS/SCREENS

Perforations _____

Methods _____

AIR KNIFE

Screens _____

Screen Type _____

From	To	Slot Size	Number	Diameter	Material	Casing	Liner
70	100	1/4	±400	8	STEEL	☒	☐
						☐	☐
						☐	☐

10. STATIC WATER LEVEL OR ARTESIAN PRESSURE:

59 ft below ground

Artesian pressure _____

depth flow encountered _____ ft.

Describe access port _____

or control devices _____

WELL CAP

11. WELL TESTS:

☐ Pump ☐ Bailer ☒ Air ☐ Flowing Artesian

Yield gpm	Drawdown	Pumping Level	Time
± 200			

Water Temp. 48°

Bottom hole temp. _____

Water Quality test or comments: _____

Depth first water encounter _____

12. LITHOLOGIC LOG: (Describe repairs or abandonment)

Dia.	From	To	Remarks: Lithology, Water Quality & Temperature	Web
12	0	6	SOIL & GRAVEL	
	6	35	HARD CLAY BROWN	
	35	40	GRAVEL/ COARSE CLAY	
	40	45	GRAVEL/ SAND /CLAY	
	45	56	BOULDERS & GRAVEL	
	56	60	COARSE GRAVEL	
8	60	63	GRAVEL & CLAY	
	63	65	CLAY & GRAVEL	
	65	68	CLAY SILT & GRAVEL	X
	68	72	COARSE GRAVEL & SAND	T
	72	77	SMALL GRAVEL	X
	77	82	MEDIUM GRAVEL & CLAY	
	82	87	COARSE GRAVEL	X
	87	88	COARSE GRAVEL	
	88	92	COARSE GRAVEL	
	92	97	COARSE GRAVEL W/ LOTS OF FINES	X
	97	101	SMALLER GRAVEL & FINES LITTLE CLAY	X
	101	107	MED GRAVEL & LOTS OF CLAY & SILT	
	107	109	FINE GRAVEL & LOTS OF CLAY & SILT	X
	109	120	STICKY CLAY & SILT	

RECEIVED

DEC 09 2005

Department of Water Resources
Southern Region

Completed depth 120 ft. (measurable)

Date: Started November 13, 2005

Completed November 21, 2005

13. DRILLERS CERTIFICATION

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

Company Name WALKER WATER SYSTEMS Firm No. 15

624 PIERCE ST. TWIN FALLS, ID 83301

Firm Official _____

and

Driller or Operator _____

Date 11/28/05

Date 11/29/05

(Sign once in Firm Official & Operator)



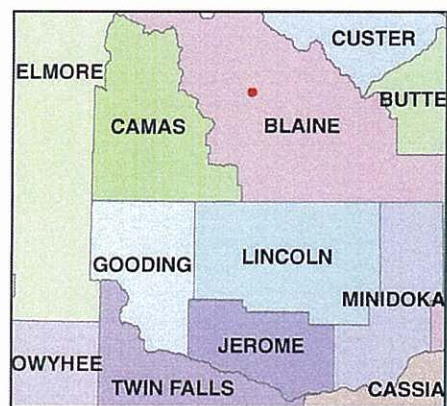
Idaho Department of Water Resources

Legend

- license_POU
- PLS Sections
- Quarter Quarters

Water Right

37-8877
37-21435

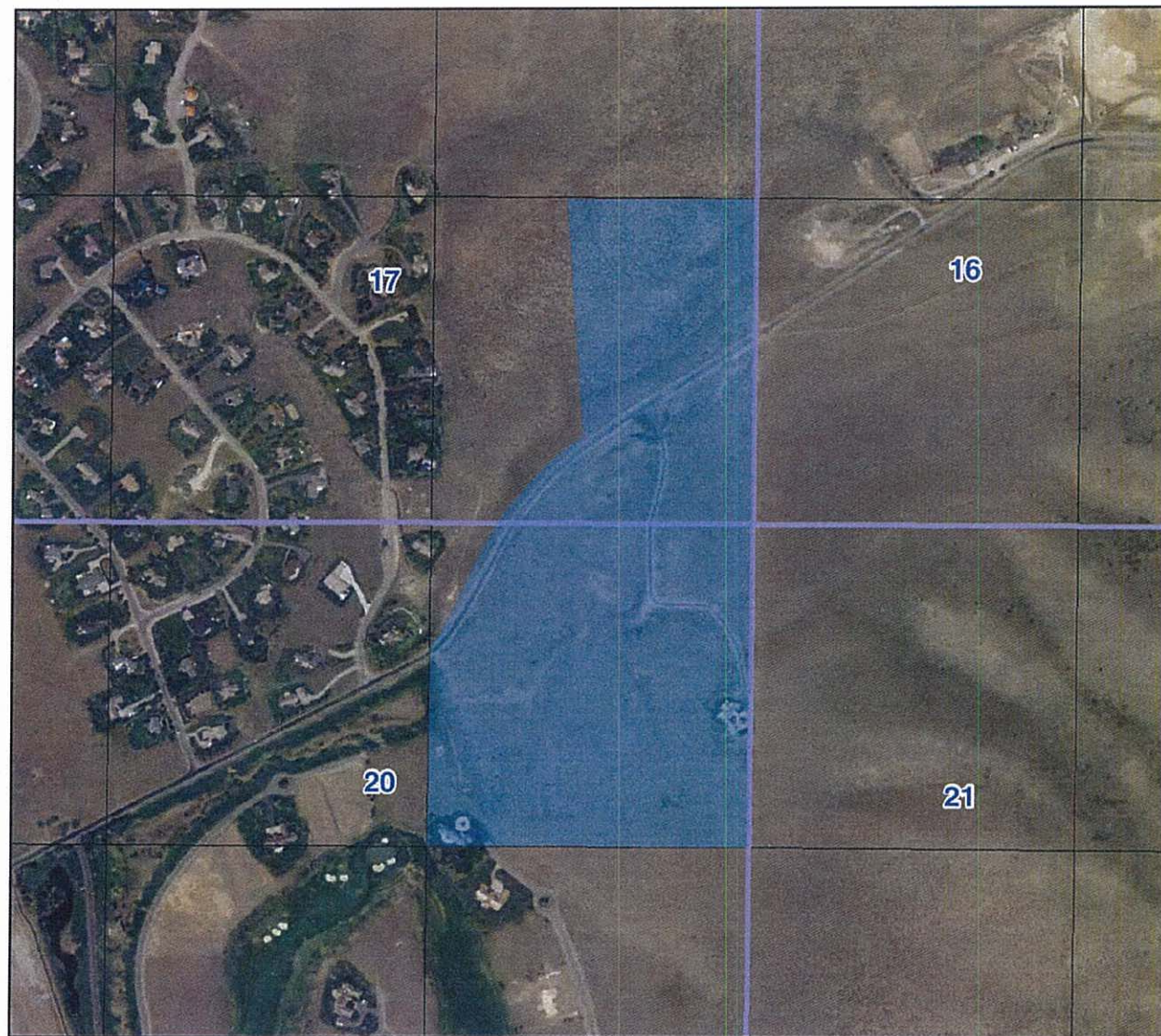


Blaine County
IDWR Basin 37

T03N

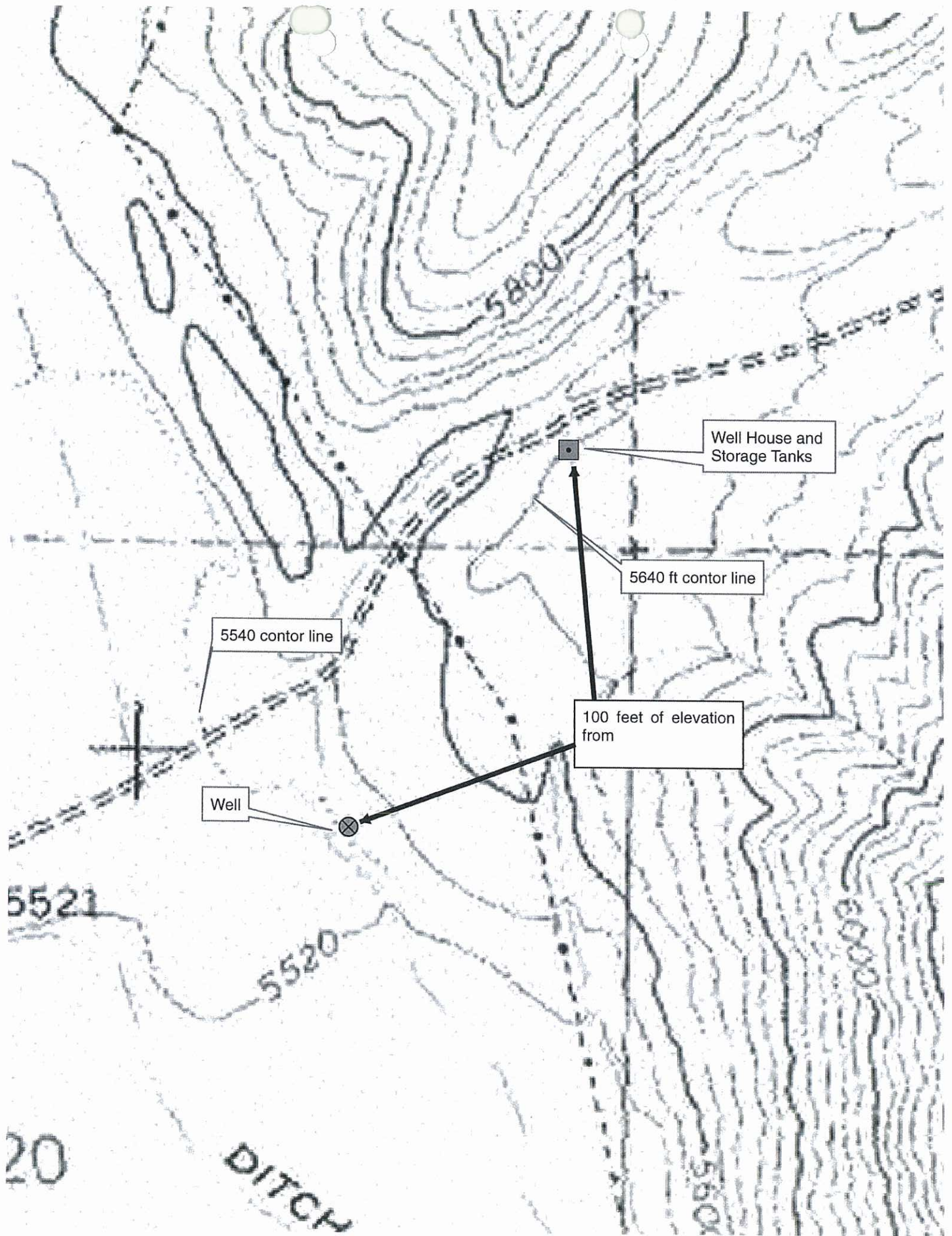
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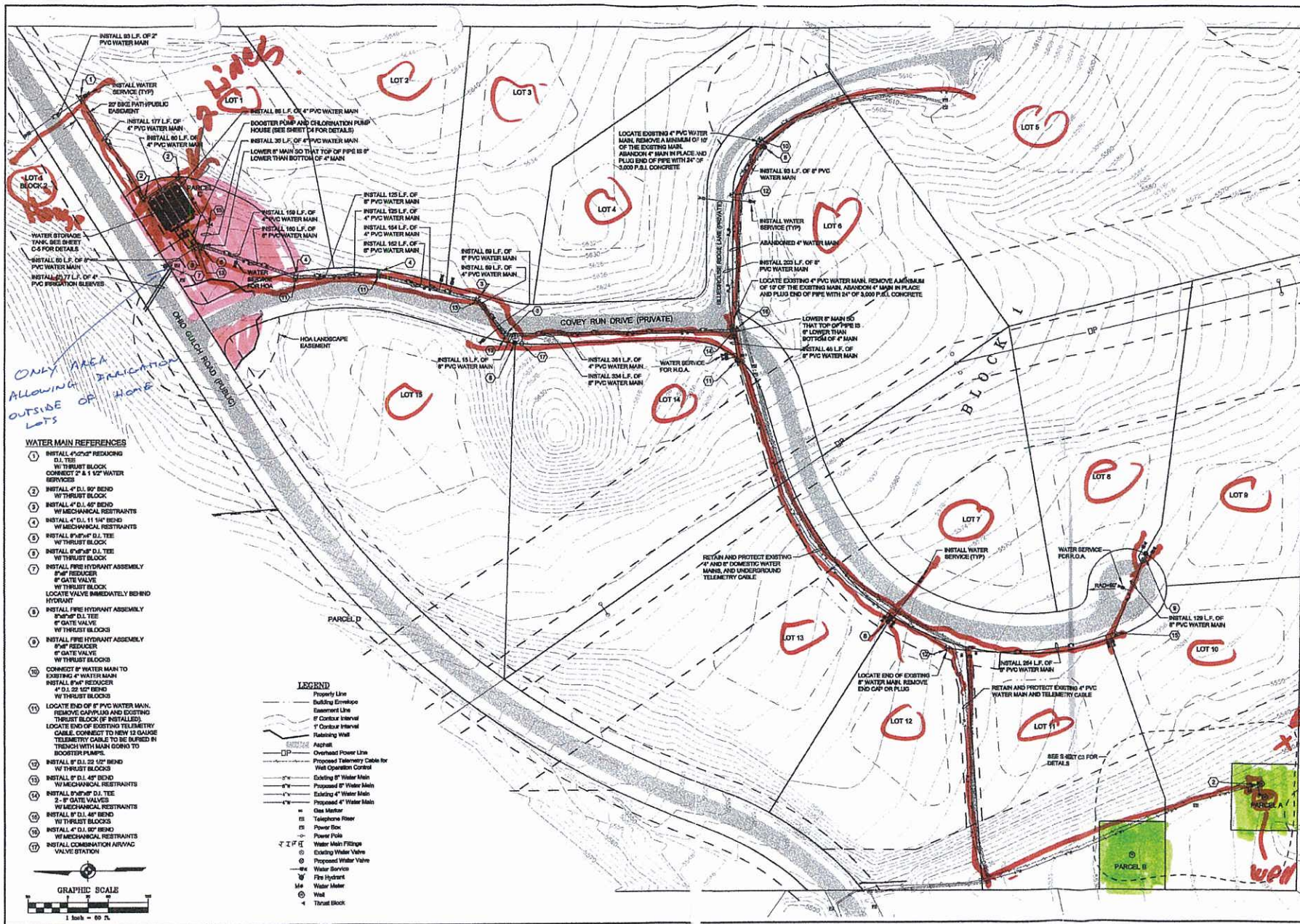
R18E



0 0.125 0.25 0.5 Miles

Prepared by Nick Van Dyke
On March 02, 2009
2004 Aerial Photography





BLUEGROUSE RIDGE SUBDIVISION
WITHIN SECTION 17 & 20 T.3N. R.1E. B.M. BLAINE COUNTY, IDAHO
PREPARED FOR SEABOARD CORPORATION

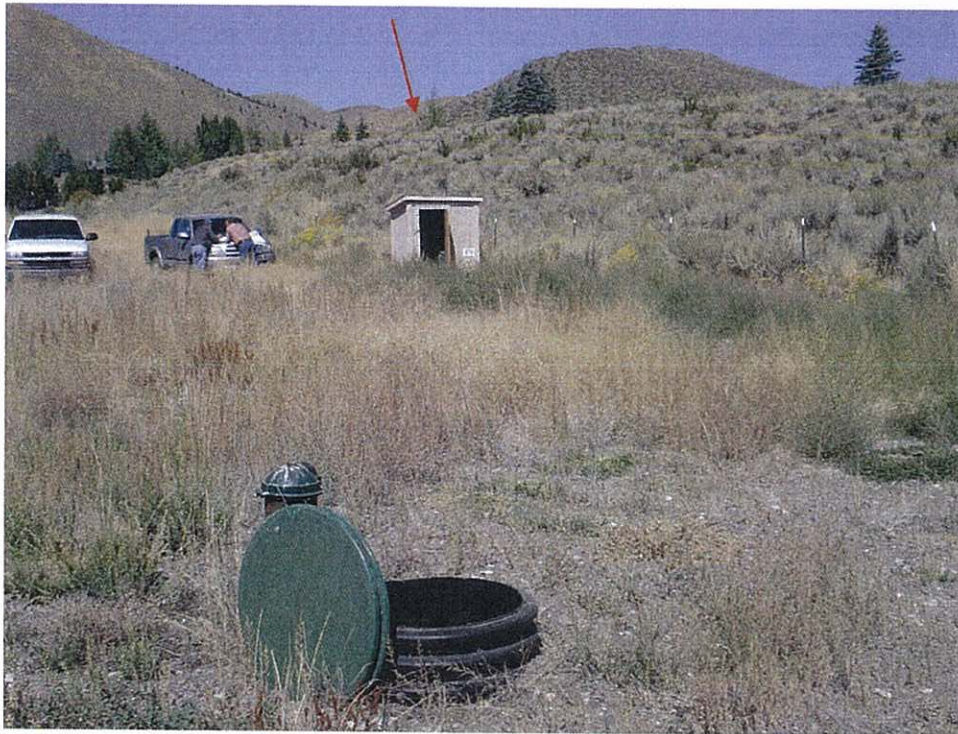
GALENA ENGINEERING, INC.
Civil Engineers & Land Surveyors
P.O. Box 2000, Boise, Idaho 83724
(208) 333-1111
www.galena-engineering.com

REVISIONS

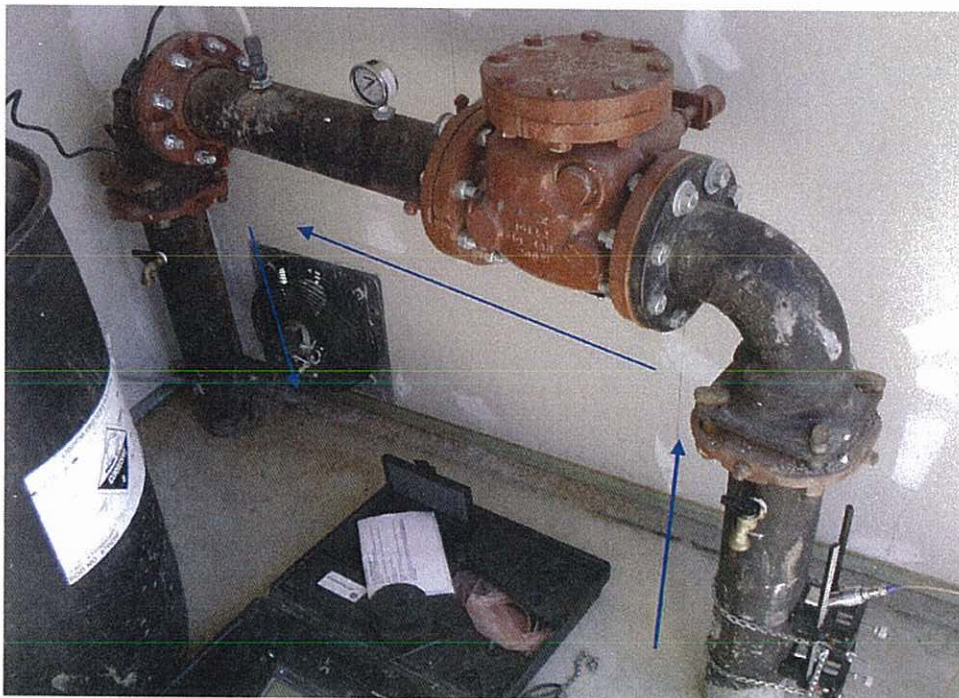
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C2

GREEN - WELL LOCATIONS



- Looking northeast, well in the foreground. Water is pumped to the well house roughly 600 yards to the northeast (**red arrow**) on the other side of the ridge in the picture.



- Water entering the well house from the point of diversion. Direction of flow shown by arrows.



- **Well house. Large motor on left is a 60 hp fire pump. There are two 7.5 hp booster pumps and one 3 hp pony pump that provide water to the subdivision.**



- **Four underground storage tanks**



- **Place of use from Ohio Gulch Rd. Beginning looking northeasterly on the left then swinging 180° ending on the right looking southwesterly. Entry way lot that is authorized to have irrigation without connection to a home is generally in the photo with the pickup, and the photo to the immediate right.**



- **Place of use from center of subdivision. Beginning looking northerly on the left then swinging 270° ending on the right looking westerly towards Hwy 75. There are a few lots not pictured that are generally behind this field of view.**