

RECEIVED

OCT 25 2001

DEPARTMENT OF WATER RESOURCES

A. GENERAL INFORMATION

Permit No. 29-07607

1. Owner: Lacey Vista Acres Water Corp. Phone No. 237-4159

Current Address: 14777 West Lacey Road, Pocatello, ID 83202

2. Accompanied by: Fred McDaniel EXAM DATE: 7-5-01

Address: 14810 West Lacey Road, Pocatello Phone No. 237-9068

Relationship to Permit Holder: Assistant Water Master

3. Source: Groundwater tributary to None

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Surface Water - Fort Hall Irrigation

2. Other water rights with the same point of diversion: No

C. DIVERSION AND DELIVERY SYSTEM

1. Point(s) of Diversion:

GPS site ~~7420~~ E0007420

[illegible]

2. Place(s) of Use:

Indicate Method of Determination Subdivision Plat

[illegible]

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

Scale: 1" = _____.

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

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

_____ Photo of Diversion and System Attached

4.

Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
Submersibles	Jawzzl	7.5			
	Jawzzl	7.5			
	Jawzzl	7.5			

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

D. FLOW MEASUREMENTS

1.

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

2. Measurements:

See DEQ Sanitary Survey for measurements.

E. NARRATIVE/REMARKS/COMMENTS

All of the lots have been developed. There are three wells on the system. However, well 9A on lot 10 in Lacey Acres First Division is not currently used due to contamination. That has been the case for the past 4-5 years. Plan is to bring the contaminated well back on line once they get a scrubber.

* Flowmeter boots are present, but meters have not yet been installed. DEQ flowmeter to be used for measurements on this exam.

Well one is in the building. Well # 2 is 80' north of Well #1

Notes: Well # 3 Permanently taken out of System (SENWSE Sec 31)

John Bobish - Head water Master. He may have info on flow measurements. 237-6768 wk 234-5431

John Called back and said flows were measured by East Water Measurement District. John recalled the flows being 100 gpm. I pulled the data from EWMD and included it with this report. Measurement Dist

Max Flow North Well 100.7 gpm

South Well 110.9 gpm

$$211.6 \text{ gpm} = 0.47 \text{ cfs}$$

DEQ records indicate 2 wells capable to deliver 150 gal for each well $Q = 300 \text{ gpm} = 0.67 \text{ cfs}$

Have conditions of permit approval been met? ☐ yes ☒ no

F. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

$$Q_{TOTAL} = 211.6 \text{ gpm} = 0.47 \text{ cfs}$$

$$Q_{DEQ RECORD} = 300 \text{ gpm} = 0.67 \text{ cfs}$$

$$Q_{IRR} \text{ LIMITED TO } 0.60 \text{ cfs}$$

$$Q_{DOM} \text{ LIMITED TO } 0.36 \text{ cfs}$$

G. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 30 \text{ ac} \times 4 = 120 \text{ afa}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation Season}) \times 1.9835 = 0.6 (214) 1.9835 = 255 \text{ afa}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 120.0 \text{ afa}$$

2. Volume Calculations for Other Uses:

$$V_{DOM} = 60 (1.2) = 72.0 \text{ afa}$$

H. RECOMMENDATIONS

1. Recommended Amounts

Beneficial Use	Period of Use		Rate of Diversion Q (cfs)	Annual Volume V (afa)
	From	To		
Domestic (60 units)	1/1	12/31	0.36 cfs	72.0 afa
IRRIGATION	4/1	11/1	0.60 cfs	120.0 afa
Totals:			0.67 cfs	192.0 afa

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**

KEITH C WILSON 9/11/2001

Field Examiner's Name Steve Mueller Date 7-6-01

Reviewer _____ Date _____

SEAL



STATE OF IDAHO
DEPARTMENT OF
ENVIRONMENTAL QUALITY

FILE COPY

224 South Arthur • Pocatello, Idaho 83204-3202 • (208) 236-6160

Dirk Kempthorne, Governor
C. Stephen Allred, Director

Certified Mail
Return Receipt Requested

May 23, 2001

Ms. Jane Schultz
Lacey Vista Water System
14774 West Lacey Vista Road
Pocatello, ID 83202

*Well info is in this
sanitary survey*

RE: Lacey Vista Water System Sanitary Survey: PWS # 6030029

Dear Ms. Schultz:

On May 10, 2001 Jaren Tolman, John Cleary, Chuck Ketterman, and I of the Idaho Department of Environmental Quality (DEQ) conducted a sanitary survey of the Lacey Vista water system. Mr. Fred McDaniel accompanied us during the survey. We appreciate his cooperation and support in scheduling and performing the survey. The purpose of the survey was to identify any areas where the system does not meet the requirements of IDAPA 58.01.08 Idaho Rules for Public Drinking Water Systems. The following paragraphs describe the physical features of the system and offer conclusions and recommendations regarding deficiencies noted during the survey.

General Description

The Lacey Vista water system serves approximately 160 persons through 59 unmetered connections. The water system consists of two wells and one pressure tank. Both wells are located inside a fenced well lot and are controlled by pressure switches on their discharge lines. Once a week, the wells are manually switched to change the lead or lag well. The system has no standby power or disinfection capabilities. In January 1993 Well # 3 was permanently taken out of service due to the presence of the volatile organic chemical, EDB, at the well source.

*WELL
#3*

Sources

Well No. 1

Well # 1 is located inside the wellhouse on Corey Lane and was constructed in 1975. The 1996 sanitary survey reports the well is 150 feet in depth with an 8-inch diameter steel casing. The survey also states that the surface seal is approximately 25 feet in depth and that the static water level is about 60 feet from the surface. The well is equipped with a 7.5 HP submersible pump

29-07607 -1

that produces approximately 150g.p.m. of water. The 3-½ -inch discharge line is equipped with a flow meter body, check valve, sample tap, and pressure gauge. The wellhouse is equipped with a lockable door.

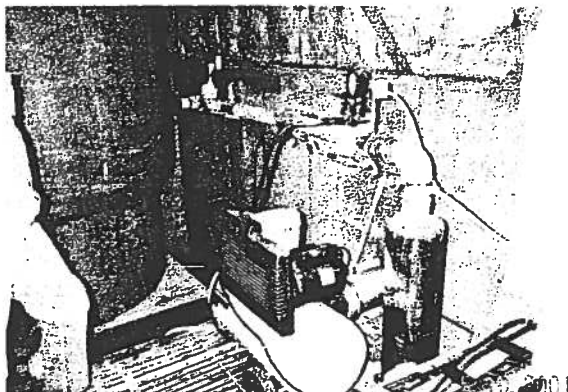


Figure 1. Well #1

Well No. 2

Well #2 (Tag# E0007421) is located approximately 75 feet north of Well #1 and was constructed in 1975. The 1996 sanitary survey reports the well is 150 feet in depth with an 8-inch diameter steel casing. The survey also states that the surface is 25 feet in depth and the static water level is about 60 feet from the surface. The well is equipped with a 7.5 HP submersible pump that produces 150 g.p.m. of water. The 3-½-inch discharge line is equipped with a flow meter connection, check valve and pressure gauge.

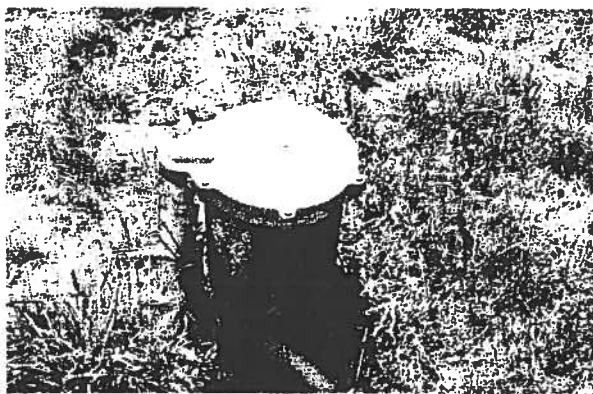


Figure 2. Well #2

Storage

The pressure tank is located inside the wellhouse. The vertical, steel tank is estimated to have a storage capacity of 5000 gallons. Air is manually added to the tank to pressurize it.

29-07607-2

Treatment

At this time, no chlorination is used to disinfect the drinking water.

Distribution System

The distribution piping ranges from 3 to 6 inches in diameter and constructed of PVC pipe. The pressure switches are set to maintain the pressure between 45 and 70 p.s.i. There are no fire hydrants in the subdivision.

Monitoring/Reporting/Data Verification

Currently, the water system is in compliance with all bacteriological and chemical monitoring and reporting requirements. A check of the Idaho Drinking Water Information Management System (DWIMS) revealed past drinking water quality information for the water system. Total coliform bacteria exceed the Maximum Contaminant Level (MCL) in the water sampling efforts of January 1993 and October 1997. The water samples were taken at various sample locations in the distribution system. No volatile organic chemicals (VOCs) or synthetic organic chemicals (SOCs) have been detected in Well #1 or Well #2.

Pumps/Pumping Facilities and Controls

No booster pumps are used to transport water through the system.

Management

The Lacey Vista water system is under the direction of a water board consisting of eight board members who reside in the subdivision. Mr. McDaniel serves as the operator and is responsible for collecting and monitoring routine bacteria and chemical samples and reporting lab analyses to DEQ. Ms. Schultz is responsible for investigating customer complaints and concerns. The water system currently assesses a \$12 per month water rate. This fee supports facility operation and maintenance.

Operator Compliance with State Regulations

Effective April 15, 2000 amendments to Idaho's Drinking water rules now require mandatory operator certification for all community and non-community non-transient water system. Operators have two years or until April 15, 2002 to apply and become certified under the new rules. Once certified, irrespective of how the operator became certified, whether by taking an exam or by the grandparenting process, every operator must renew their certificate annually by March 1 and attend annual professional training on relevant topics. The training session must qualify for a minimum of 0.6 continuing education units (CEUs) to meet the professional growth requirement. The Idaho Operators Certification Board and State Upgrade Trainer co-sponsor the Idaho Certification and Training Web Site at www.idahocertificationtraining.com or call the

Certification and Training Referral Office at 1-800-543-4358 or 208-465-5725. Mr. John Bobish is the certified operator for the Lacey Vista water system.

Ground Water Under the Direct Influence of Surface Water (GWUDI)

Based on DEQ's letter dated February 16, 1995 the two wells were determined groundwater sources that are not under the direct influence of surface water.

Recommendations and Conclusions

1. Ensure that the well house is in good repair, kept clean and not used for storage. The pieces of insulation on the floor of the well house should be removed.

The following improvements must be made to comply with DEQ regulations (IDAPA 58.01.08):

1. Install a sample tap, such as a hose-bib on the discharge line of Well #2 so that the well itself can be sampled independently. The sample tap should be facing down and at least 18-inches above the floor.
2. Install approved flow meters (which read both instantaneous flows and total flows) on the discharge lines of the wells with the necessary straight lengths of pipe upstream and downstream of the meter as recommended by the manufacturer. A flow meter would help in tracking the performance of each well pump and would be necessary for calibrating a chlorination system if one was ever installed.
3. Install an approved casing vent on Well #1 and Well #2 so that the space between the well casing and column is vented to the atmosphere. The end of the pipe must be down-facing, screened, and at least 18-inches above the ground level. The purpose of the vent is to vent the space between the casing and the column and prevent a vacuum from forming when the well turns on and draws down the water table. A vacuum could draw in contamination through joints or leaks in the casing or cause the well to slough.
4. For Well 1, & Well 2, install the necessary valves and piping to allow the wells to have pump-to-waste capabilities via an approved air gap. This feature is desirable to allow the well pumps to be easily pumped and flushed out without pumping the water through the distribution system
5. At the beginning of every year, submit a sampling plan showing each month's sampling location (address). Chemical contaminant testing should be collected from the well house sample tap and the monthly bacteria samples should be rotated throughout the system to represent the entire water system.

SEE
CONDITION

29-07607-4

DEQ recommends the deficiencies be addressed as soon as possible, however, we must receive written notification that they have been addressed no later than May 23, 2002. If you have any questions regarding this letter please contact Barbara Jones or me at (208) 236-6160.

Thank you for your cooperation in this matter.

Sincerely,

A handwritten signature in black ink, appearing to read "Sean Scott", with a long horizontal stroke extending to the right.

Sean Scott
Hydrogeologist

cc: John Kirkpatrick, Regional Engineering Manager, DEQ-PRO
Barbara Jones, Monitoring and Reporting Program, DEQ-PRO
File

29-07607-5

TIMECLOCK DATA

EXAMINER: M. HOLLIDAY

DATE: 8/14/00 GPS SITE TAG: E0007421 RECORD #: 200500

OWNER: LACEY VISTA ACRES DISTRICT: NORTH EAST

OP HOURS: AVG GPM: AVG CFS: ACRE FEET:

96.3

COMMENTS:

DIVERSION NAME IS NORTH WELL.

PRESSURE RANGE IS BETWEEN 51 + 74 PSI.

FLOW RANGE WAS BETWEEN 100 + 92 GPM.

✓TERRY: ADD TO MONTHLY FULL YEAR PUMP CARD LIST

QUALIFIER

EM ERRONEOUS MEA

FE FULL YEAR ESTIM

MR MONTHLY RECOR

ND NO DIVERSION OC

NM NO MONTHLY RE

OW OTHER WELL

PM PARTIAL YEAR M

Z ZERO PUMPAGE

00-08-14 10:01:30
+4.315E+0 ft/s
+9.007E+1 gal/m
+TOTAL 0000008 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:02:29
+4.290E+0 ft/s
+9.949E+1 gal/m
+TOTAL 0000107 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:03:29
+4.279E+0 ft/s
+9.925E+1 gal/m
+TOTAL 0000206 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:04:29
+4.188E+0 ft/s
+9.714E+1 gal/m
+TOTAL 0000304 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:05:29
+4.140E+0 ft/s
+9.603E+1 gal/m
+TOTAL 0000400 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:06:29
+4.088E+0 ft/s
+9.482E+1 gal/m
+TOTAL 0000496 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:07:29
+4.034E+0 ft/s
+9.357E+1 gal/m
+TOTAL 0000590 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:08:29
+3.980E+0 ft/s
+9.232E+1 gal/m
+TOTAL 0000682 gal
-TOTAL 0000000 gal
NORMAL

00-08-14 10:09:29
+1.176E+1 ft/s
+2.728E+0 gal/m
+TOTAL 0000765 gal
-TOTAL 0000000 gal
NORMAL

52 PSI
N. WELL

60 PSI

63 PSI

69 PSI

72 PSI

96.3 GPM

SEND PUMP CARDS TO:
LACEY VISTA ACRES
ATTN: JOHN BOBISH
15273 W. LACEY RD
POCATELLO, ID 83202

North Well Max Q = 100.7 gpm

00-08-14 10:09

SITE SETUP	
PIPE PARAMETER	
SITE NAME	
OUTER DIAMETER	3.5000in
PIPE MATERIAL	CARBON STEEL
WALL THICKNESS	0.2110in
LINING MATERIAL	NO LINING
LINING THICKNESS	0.0000in
KIND OF FLOID	WATER
SENSOR MOUNTING	V
SENSOR TYPE	FLD12

TIMECLOCK DATA			
EXAMINER: M. HOLLIDAY			
DATE	8/14/00	GPS SITE TAG	E0007420
RECORD #		200499	
OWNER	LACEY VISTA ACRES	DISTRICT	NORTH EAST
OP HOURS	AVG GPM	AVG CFS	ACRE-FEET
	104.4		
COMMENTS:		QUALIFIER	
PIPE PARAMETERS SAME AS 200500.		EM ERRONEOUS MEAS.	
DIVERSION NAME IS SOUTH WELL.		FE FULL YEAR ESTIMATE	
PRESSURE RANGE IS BETWEEN 49 AND 70 PSI.		MR MONTHLY RECORDINGS	
FLOW RANGE IS BETWEEN 111 AND 100 GPM.		ND NO DIVERSION OCCURED	
TERRY: ADD TO MONTHLY FULL YEAR PUMP CARD LIST.		NM NO MO	
		OW OTHER	
		PM PARTIAL	
		Z ZERO P	

SEND PUMP CARDS TO:
LACEY VISTA ACRES
ATTN: JOHN BOBISH
15273 W. LACEY RD
PDCATELL, ID 83202

SOUTH WELL MAX Q = 110.9 gpm

08-08-14 10:20:45
+8.000E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000000 gal
-TOTAL 0000000 gal
ABNORMAL

08-08-14 10:21:44
+4.755E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000100 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:22:44
+4.682E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000209 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:23:44
+4.580E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000316 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:24:44
+4.501E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000422 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:25:44
+4.450E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000526 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:26:44
+4.401E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000629 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:27:44
+4.327E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000730 gal
-TOTAL 0000000 gal
NORMAL

08-08-14 10:28:44
+4.298E+0 ft/s
+1.000E+2 gal/m
+TOTAL 0000831 gal
-TOTAL 0000000 gal
NORMAL

SOUTH WELL
49 PSI

53 PSI

104.4 GPM

58 PSI

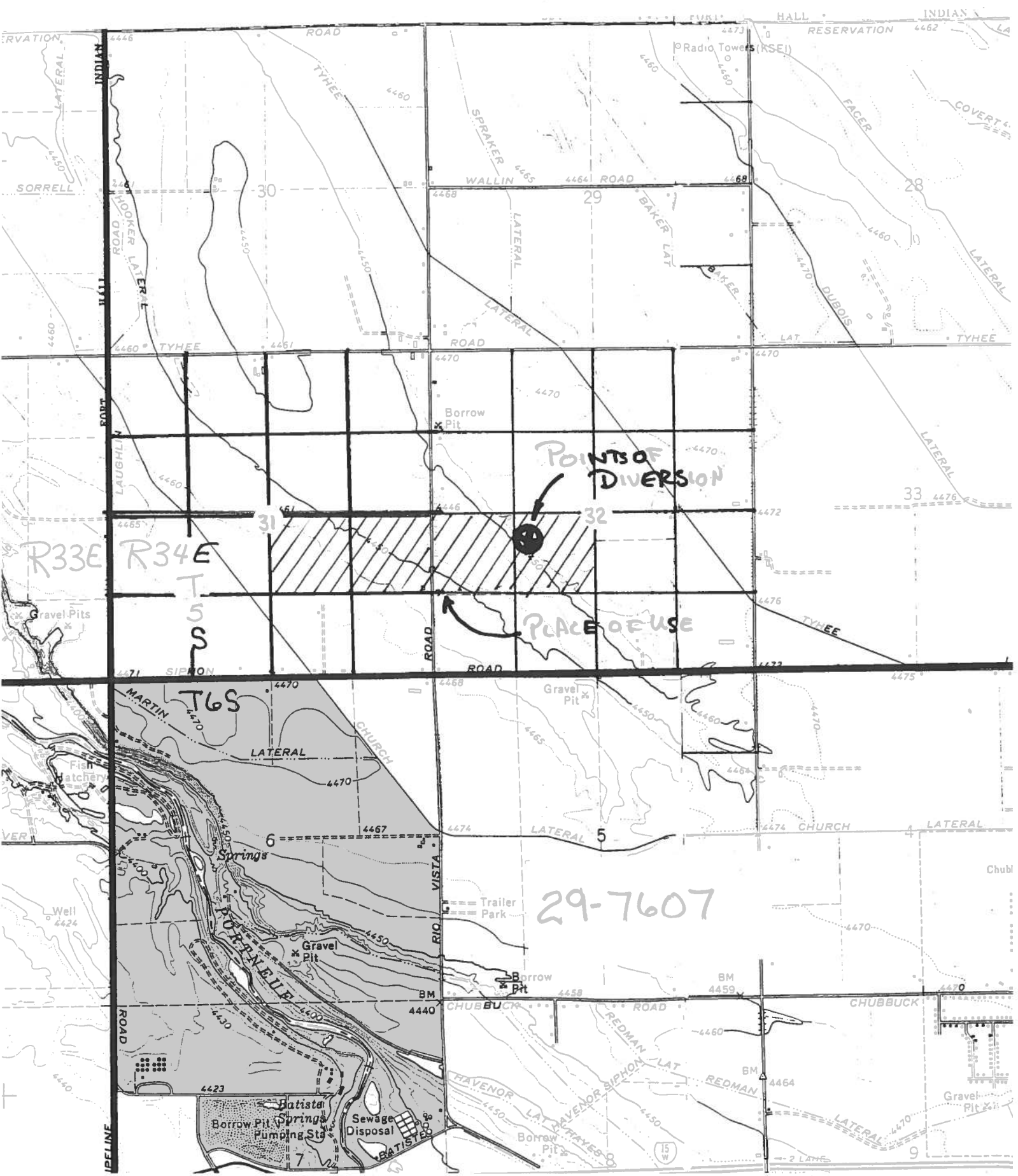
62 PSI

65 PSI

66 PSI

68 PSI

70 PSI



29-7607

POINTS OF DIVERSION

PLACE OF USE

R33E R34E

T5S

T6S

MARTIN

LATERAL

CHURCH

VISTA

CHUBBUCK

REDMAN

HAVENOR

BAPTIST

Sewage Disposal

Borrow Pit

Gravel Pit

Well

Fish Hatchery

Trailer Park

Radio Towers (KSEI)

Indian Reservation

Covert

Facer

DUBOIS

TYHEE

WALLIN

SPRAKER

BAKER

WALLIN ROAD

SPRAKER ROAD

BAKER ROAD

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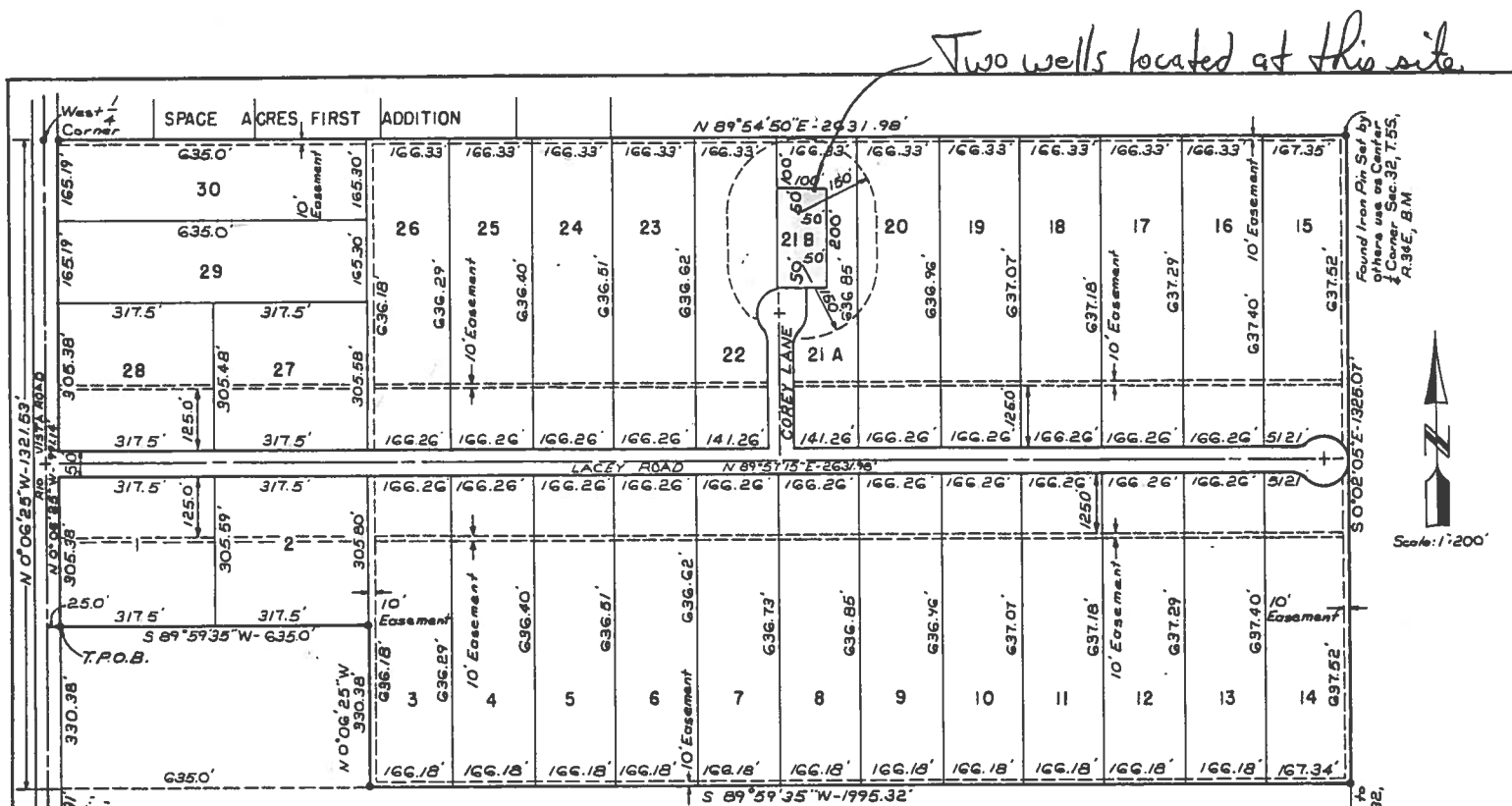
SPRAKER ROAD

BAKER ROAD

DUBOIS ROAD

TYHEE ROAD

SIPHON ROAD



Sanitary Restrictions are in force under Title 50, Chapter 13, Idaho Code.

Notes on Well Site

- 1-No waste water to be discharged within 150 feet of well.
- 2-No sewer lines within 50 feet of well.
- 3-Well site to be dedicated (Lot 21 B).

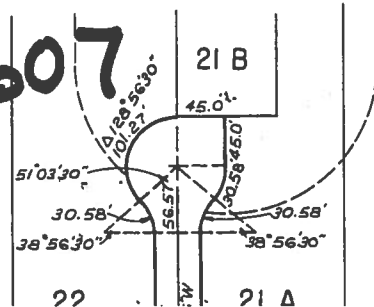
1A

Found Nail-Replace with Iron Pin

R.R. Spike N 89°59'50"W-2653.11' S 89°51'15"E-2653.20' Found Iron Pin

Section 32, T.5S, R.34E, B.M.

N 89°54'50"E-2656.98'



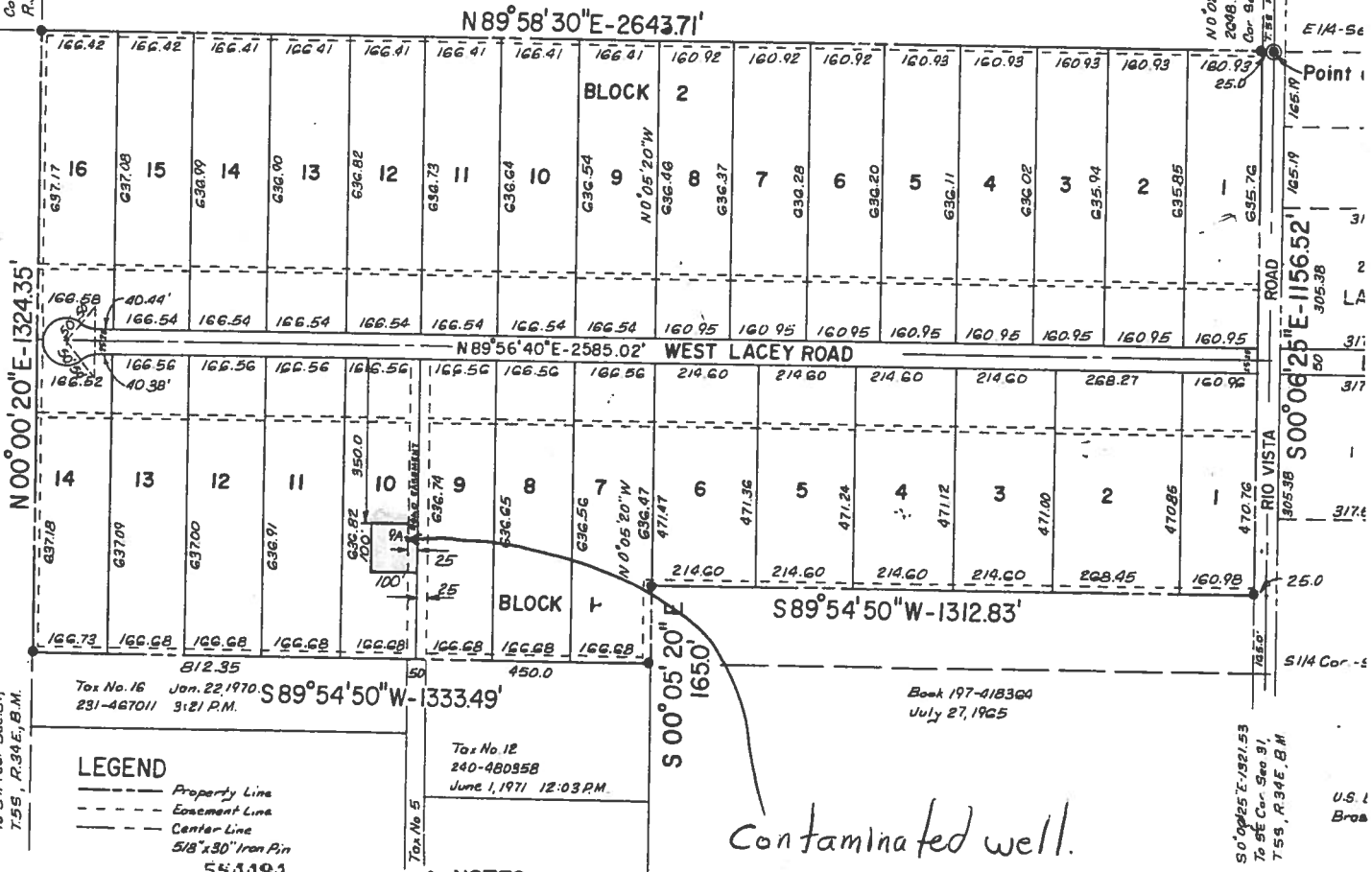


While this is a scale reproduction of the recorded plat, this company assumes no liability for variations, if any, with a re-survey.

N 0° 00' 20" E -
2645.18 To N 1/4
Cor. Sec. 31, T5S,
R34E, B.M.

Trs. No. 18
Book 104 - Page 604
Inst. No. 26367

N 0° 02' 15" E -
2048.08 To NE
Cor. Sec. 31,
T5S, R34E, B.M.



LEGEND

- Property Line
- Easement Line
- Center Line
- 5/8" x 30" Iron Pin

Instrument No. 554494
Time: 10:01 AM Date: 5-12-76
Book: 9 Page: 42
Record of Bonnock County:
State of Idaho
Fee: \$5.00 Recorder:
At Request of Hamilton & Vessler

Trs. No. 12
240-480958
June 1, 1971 12:03 P.M.

NOTES:

- 1-All easements 10 feet unless otherwise noted.
- 2-Sanitary Restrictions are in force under Title 50, Chapter 13, Idaho Code.

NOTES ON WELL:

- 1-No waste water to be discharged within 150 feet of well
- 2-No sewer lines within 50 feet of well
- 3-Well site to be dedicated (Lot 9A Block 1)

BOUNDARY DESCRIPTION

Beginning at the East 1/4 Corner of Section 31, T5S, R34E, B.M., Bonnock County, Idaho; thence S 0° 06' 25" E-1156.52 feet; thence S 89° 54' 50" W-1312.83 feet; thence S 0° 05' 20" E-1650.0 feet; thence S 89° 54' 50" W-1333.49 feet; thence N 0° 00' 20" E-1324.35 feet; thence N 89° 58' 30" E-2643.71 feet, more or less, to the Point of Beginning.

29-07607

I, Tim Eriksen, Clerk, Auditor and Recorder of Bonnock County, Idaho, do hereby certify that this is a true copy of the Plat of First Addition to Lacey Vista Acres, as same as is filed in the records of Bonnock County, Idaho.



Permit 29-7607 Well #3 (not in use due to contamination)

Well #1 inside well house



Well #2 80' north

