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Permit No: 47-8180

DEPARTMENT OF
WATER RESOURCES

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 47-8180

Exam Date: 8/19/04

1. Current Owner: CITY OF TWIN FALLS
PO BOX 1907
TWIN FALLS ID 83301-1907
(208)735-7240
2. Accompanied by: Adam York
Phone No: 734-3700
Address:
Relationship to Permit Holder: Magic Valley Speedway is the facility built on City of Twin Falls property.
Magic Valley Speedway employee (Steve York is the manager and Adam is his son)

3. SOURCE

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: Twin Falls Canal Company Shares for irrigation
2. Other water rights with the same point of diversion: NONE

C. DIVERSION AND DELIVERY SYSTEM (SEE ATTACHED PHOTOS AND MAPS)

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER

NE1/4SE1/4NE1/4

Sec. 7, Twp 11S, Rge 17E, B.M.

TWIN FALLS County

Method of Determination:

2.

PLACE OF USE: COMMERCIAL

[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>
Well	Unknown	3	Unknown	Unknown	Unknown

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

D. FLOW MEASUREMENTS None possible

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>
NONE						

2. Measurements: None

E. FLOW CALCULATIONS

Measured Method:

Review of well logs in area review static level in NE S7, T11S, R17E to range from 207 to 222 feet below ground surface.
 Review of observation well data for 11S17E-07BBA1 finds ranges from 219 to 209 feet below ground surface. Estimate water level to be 219 for use in calculation.

$$Q = (HP) \times (3960) \times (\text{efficiency}) / (TDH) \times (448.8)$$

HP = 3 per conversation with Elsing Drilling

Efficiency = est. 0.7

TDH = 219 + (2.31 x 50)

$$\text{Therefore } Q = (3 \times 3960 \times .7) / (334.5 \times 448.8) = 0.06 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation: NONE

2. Volume Calculations for Other Uses:

Commercial

Estimate 32 races per season

Restroom:	1500 users /race, est. 10 gallons per user	>>>	1.5 afa
Wash:	26 gpm x 90 minute	>>>	0.3 afa
Car:	50 gallons x est 30 cars	>>>	0.2 afa
TOTAL VOLUME		>>>	2.0 afa

G. NARRATIVE/REMARKS/COMMENTS

The field exam was conducted on 8/19/04. Corbin Knowles assisted. We met Adam York at the Magic Valley Speedway and he showed us the well and described the water uses at the race track. The permit includes irrigation however the grounds are irrigated from a pump in the Twin Falls Canal Co. just north of the facility. The well is not used for irrigation. Inspection of the well, power panels and pressure tanks found no information about the well. The distribution line from the well is buried. After the exam I contacted Arnold Elsing and he indicated that the well had a 3 H.P. submersible pump which was set 252 feet below ground.

Mr. York explained that the facility had a seating capacity of 3000 people. He indicated that normally 1200 to 1500 people attend the weekly Saturday race. (Only one race per week is held.) This reported number of people includes pit crews, drivers, fans, and employees. Race season is from March through October.

Water uses include water for the restroom facilities, water for the concession stand, water used in the pits for vehicle maintenance and water used for washing down the bleachers after each race. Washing takes approx. 90 minutes.

Have conditions of permit approval been met? ☒ Yes ☐ No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
COMMERCIAL	03/01 to 10/31	0.06 CFS	2.0 af
<u>Totals:</u>		0.06 CFS	2.0 af

2. Recommended Amendments

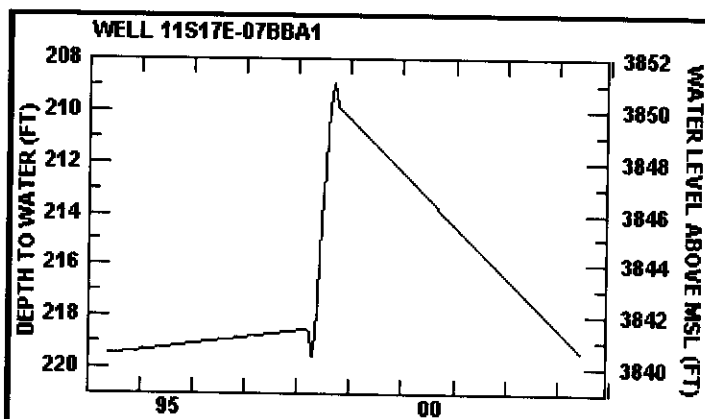
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

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

I. AUTHENTICATION

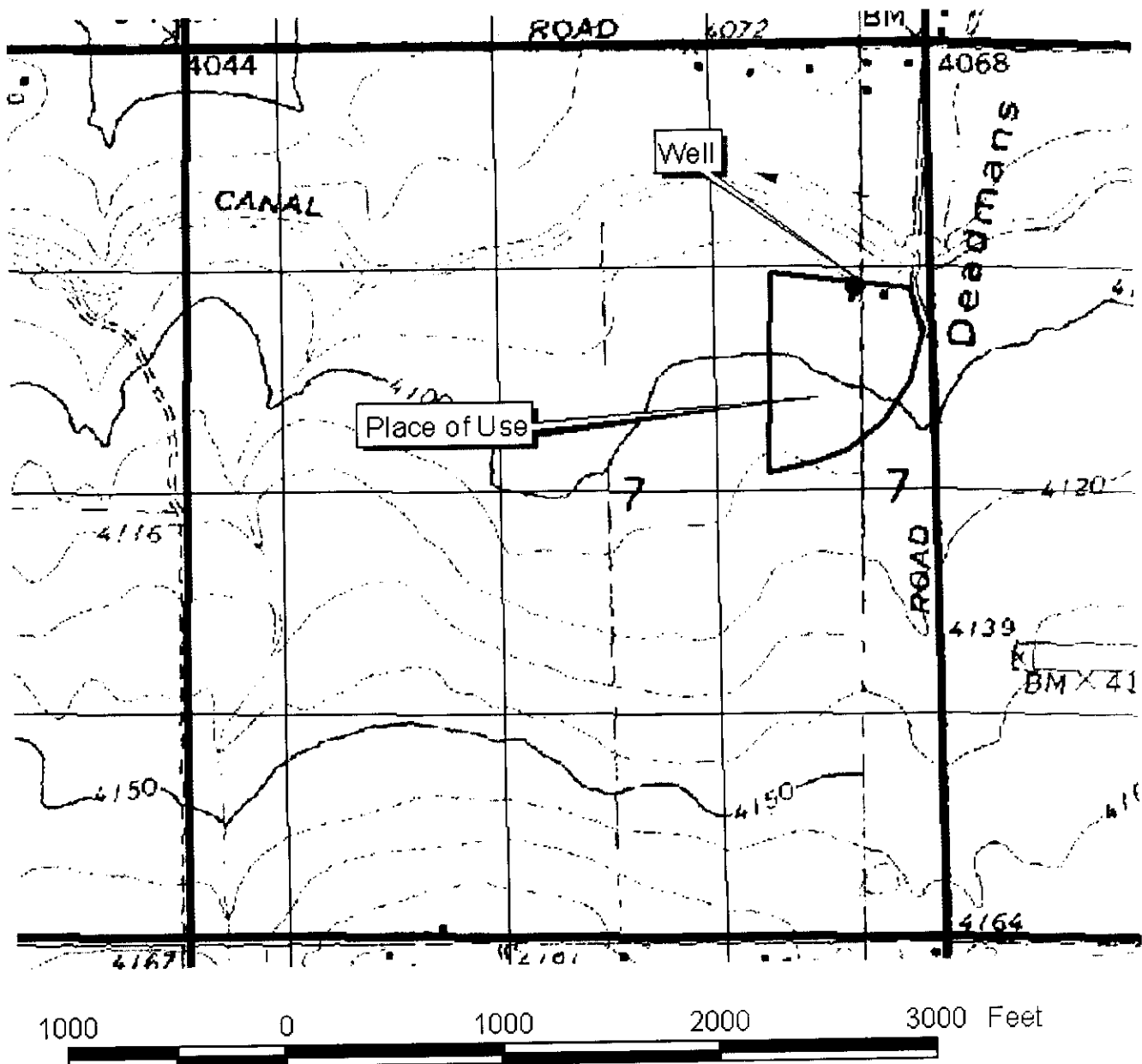
Field Examiner's Name  Date 11/24/04

Reviewer _____ Date _____



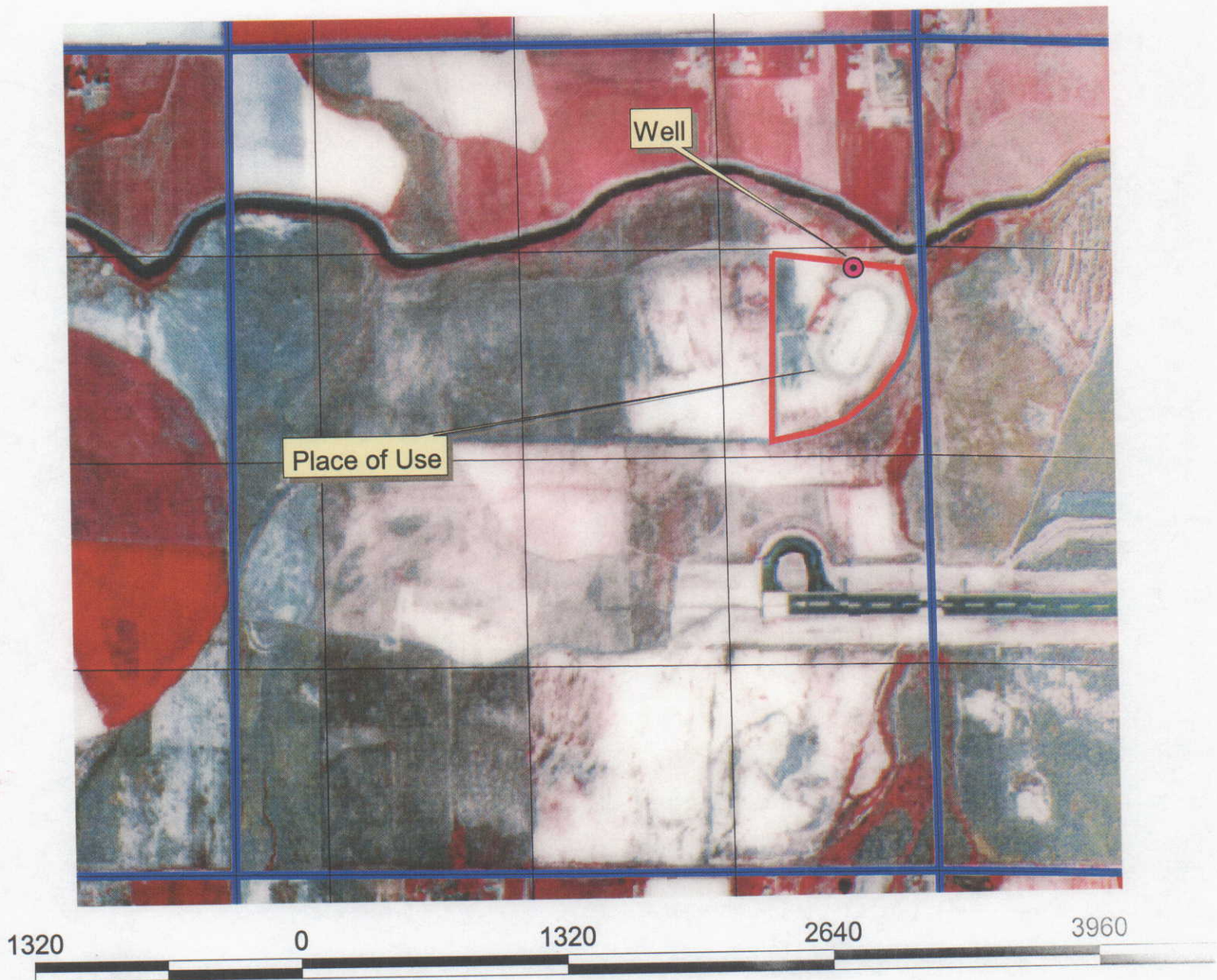
Measurement Date	Depth To Water (feet)	Site Status	Measuring Agency
5/14/1994	219.5	Recently Pumped	USGS
3/24/1998	218.5		USGS
4/22/1998	219.6		USGS
5/19/1998	218.4		USGS
6/16/1998	215.1		USGS
7/21/1998	212.3		USGS
8/18/1998	210		USGS
9/16/1998	208.9		USGS
10/20/1998	209.9		USGS
7/8/2003	219.4		USGS

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Section 7, T11S, R17E, B.M.

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Section 7, T11S, R17E, B.M.

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View of Well in foreground with race track in background. View is looking south. Well is used for commercial purposes at the Magic Valley Speedway. The property is owned by the City of Twin Falls.



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View looking north from well toward TFCC canal where pump exists that diverts canal shares for irrigation use at the Magic Valley Speedway. The well is not used for irrigation.



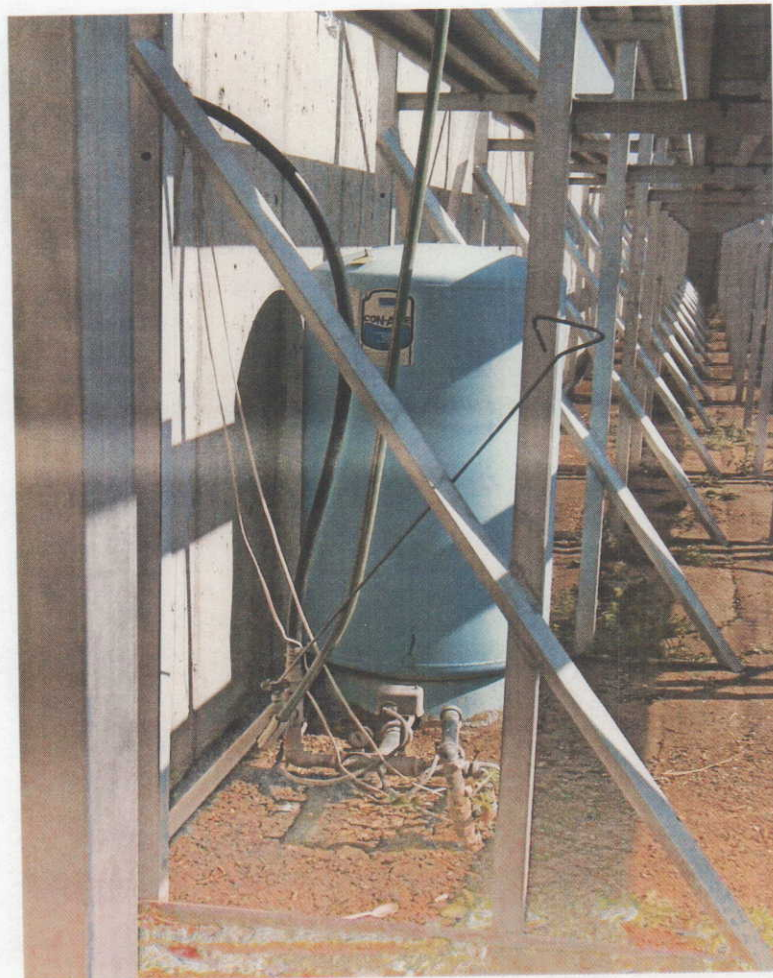
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Announcer's stand above bleacher sets. Contains Men's and Women's rest rooms. Men's rest room has 4 toilets, 4 urinals and 3 sinks. Women's has 6 toilets and 3 sinks. View looking north.



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Pressure tank under bleachers with spigot used for washing bleachers after each race. Wash time per week is 90 minutes.



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View looking south from Announcer's stand toward the Concession Stand (trailer) and Storage/Restroom building. Men's has 6 urinals, 2 toilets and 2 sinks. Women's has 11 toilets and 3 sinks. This building also has 3 additional pressure tanks. The parking and pit area is in the background. Note that each light pole in pit area has a spigot for the pit crew.



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View looking north from county road toward parking area with race track in background.

