

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-7076

Exam Date: 10/5/2011

1. Current Owner: CORP OF THE PRESIDING BISHOP
CHURCH OF JESUS CHRIST OF LATTER DAY SAINTS
REAL ESTATE SERVICES DIV
50 E NORTH TEMPLE ST
SALT LAKE CITY UT 84150-6320
(801) 240-4657
2. Accompanied by: None (see narrative)
Phone No:
Address:
Relationship to Permit Holder:

3. SOURCE TRIBUTARY
GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 37-10417, and City of Carey rights.
2. None

C. DIVERSION AND DELIVERY SYSTEM1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SW1/4SW1/4NE1/4 Sec. 27, Twp 01S, Rge 21E, B.M.
BLAINE County

Method of Determination: GPS, aerial photo

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	
01S	21E	27			1.0														1.0

Total Acres: 1

DOMESTIC same as IRRIGATION

Domestic use also covered by decreed right 37-10417

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 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 Size</u>
A00017833		5			

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

D. FLOW MEASUREMENTS

1.

<u>Measurement Equipment</u>	<u>Type</u>	<u>Make</u>	<u>Model No.</u>	<u>Serial No.</u>	<u>Size</u>	<u>Calib. Date</u>

2. Measurements: not running

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method: Theoretical

$$\frac{(8.8) \times (5 \text{ hp}) \times 70\%}{14.5 + (55 \times 2.31)} = \frac{30.8}{141.55} = 0.217 \text{ cfs}$$

OR

$$\frac{(8.8) \times (5 \text{ hp}) \times 70\%}{55 + (55 \times 2.31)} = \frac{30.8}{182.05} = 0.169 \text{ cfs}$$

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 1 \times 3.5 \text{ AF/ac} = 3.5 \text{ AF}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \times 214 \times 1.9835 = 12.73 \text{ AF}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 3.5 \text{ AF}$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

The original permit was approved on October 22, 1971 with proof due on or before November 1, 1972. A lapse notice was sent on November 6, 1972 because neither proof of beneficial use nor a request for extension of time had been received. On October 24, 1988 the department received a proof of beneficial use statement along with evidence that the water had been put to beneficial use in 1971. The permit was reinstated with the priority date advanced to October 24, 1988. I talked to a Delmus Johnson in SLC who is in charge of water rights for the church. He gave me the name of Clayton Pope, the facility manager for the area to get in touch with at 208 324-5097 (office) or 208 539-6283 (cell). Mr. Pope had recently had knee surgery and was unable to meet me so I got in touch with the local bishop, Craig Patterson, who told me where the well was located (SE corner of property) and said he would leave the shed unlocked in case I needed to look at anything since the controls were located inside. He also said the well was only used for lawn irrigation now as the church buildings were connected to the City of Carey water system about 14+ years ago? As far as the church congregation size, he said that it is a Stake Center which consists of two Wards, with approximately 285 people in each with about half attending services on Sundays and a youth group meets on Wednesday evenings and the General Conference meets twice a year. He guessed the peak attendance would be about 600 people. I visited the church site on October 5, 2011, along with fellow agent Jana Reeder; we GPS'd the site and attached tag #A0017833 to the well head and confirmed there was an underground sprinkler system. Clayton Pope, the Facilities Manager, confirmed the system had a 5 hp submersible pump. There seems to be just under an acre of irrigation now but in looking at old aerial photos of the 70s, 80s, and 90s, it appears there was more irrigation before they enlarged the parking lot. I recommend an acre of irrigation and a diversion rate of 0.03 cfs, the amount allowed for small irrigation systems of less than 5 acres, and 3.5 af, the standard irrigation volume for the area. Decreed right 37-10417 is also for domestic use at the church for 0.1 cfs and 13,000 gpd. I recommend a combined limit of 0.1 cfs and 1 acre of irrigation when both rights are combined. Changed season of use for irrigation to current standard for area of 4/1 - 10/31.

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>
IRRIGATION	04/01 to 10/01	0.030 CFS	3.50 AF
DOMESTIC	01/01 to 12/31	0.060 CFS	
<u>Totals:</u>		0.090 CFS	3.50 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

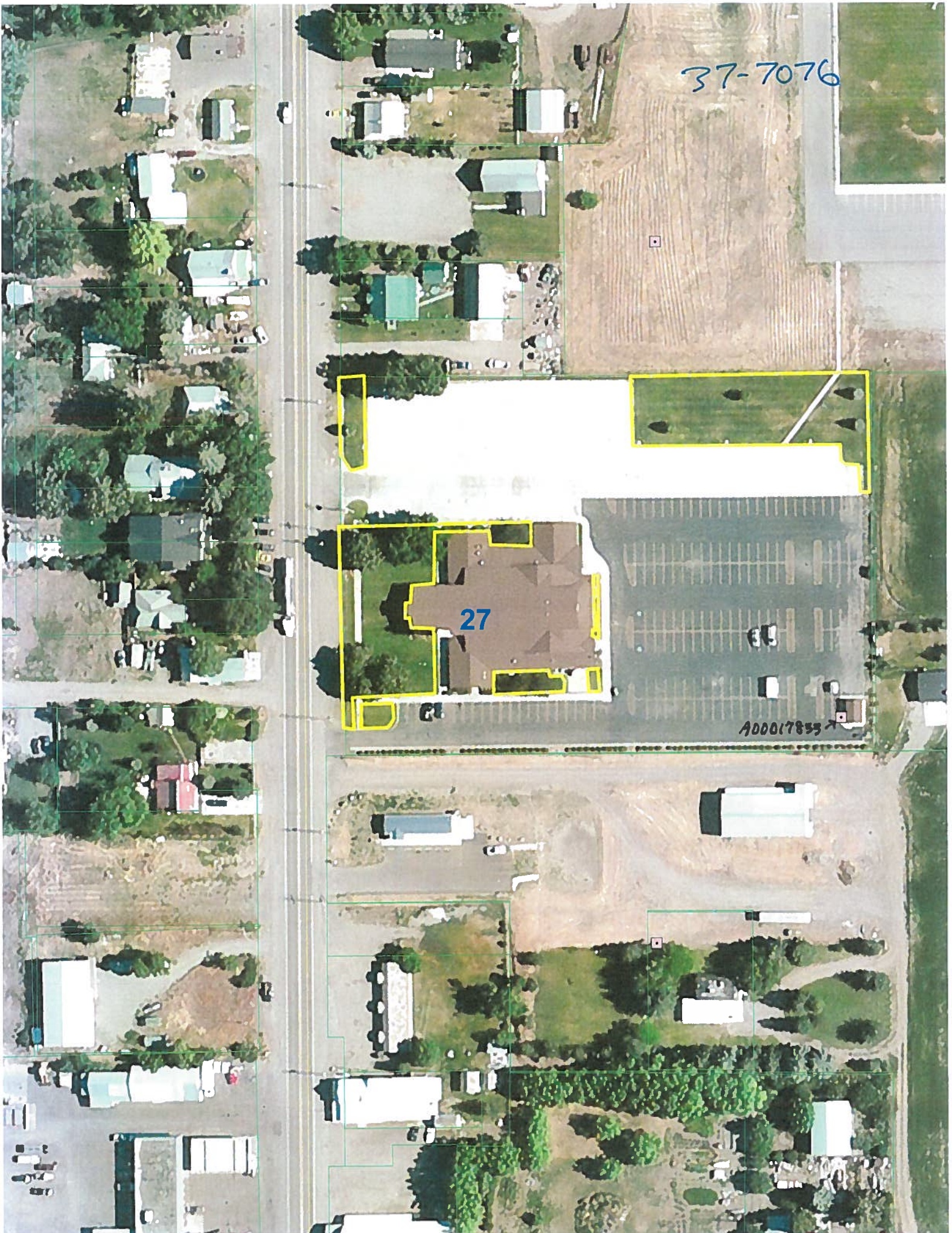
Field Examiner's Name Jeanie Robertson Date 3/21/2012

Reviewer Chris Martin Date 4/6/2012

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37- 7076

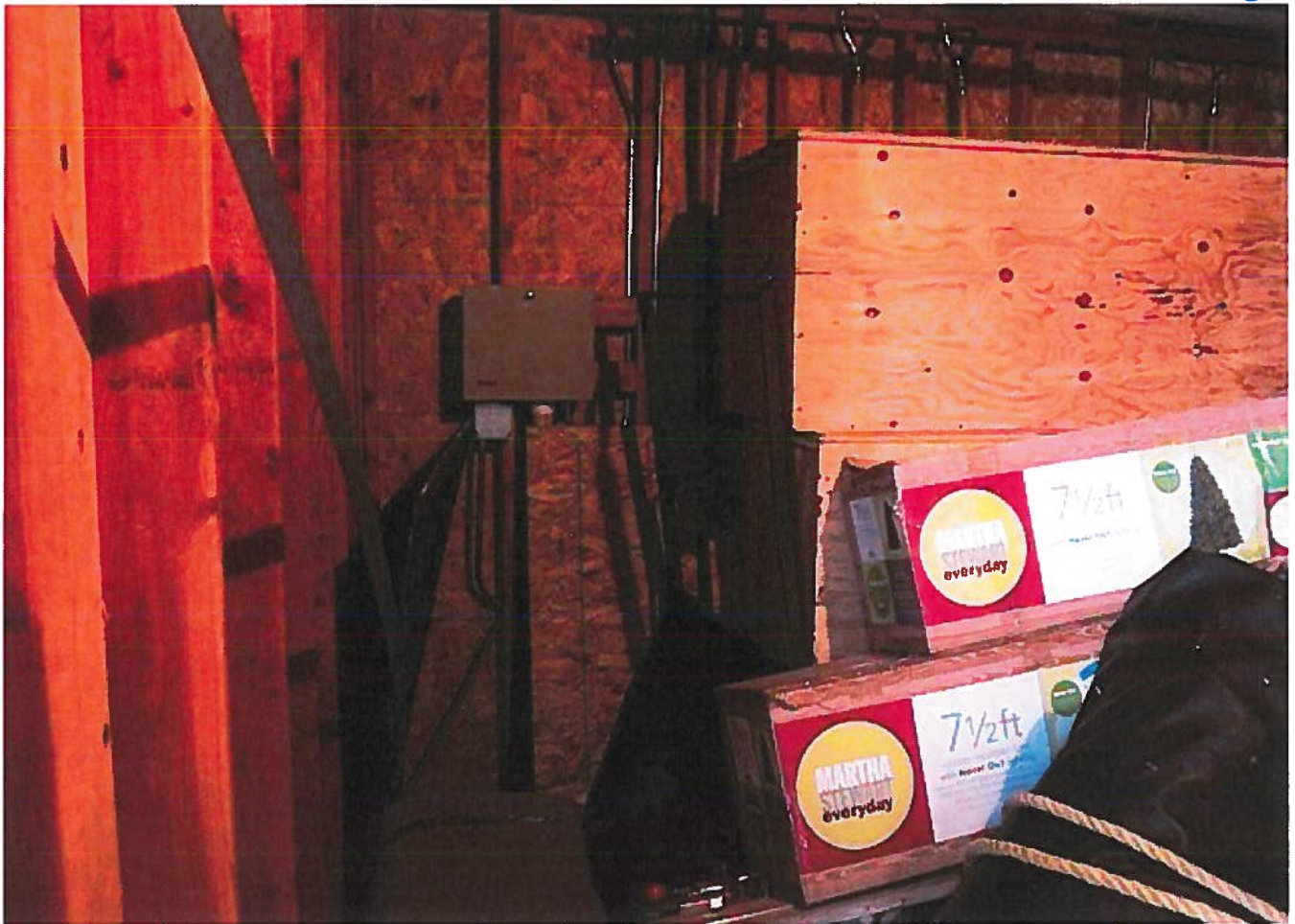


Well



Valve pit

37-7076



Controls in utility building



Well

37-7076

The screenshot shows the ArcMap interface with the following components:

- Table of Contents:**
 - Layers
 - Water Permit POD
 - Water Permit POU
 - PLSS
 - Township/Range
 - Sections
 - QQ
 - Taxlots** (selected)
 - DRG
 - Imagery
 - 1987
 - 1992 DOQQ
 - 2009 1 meter
- Identify Window:**
 - Identify from: Taxlots
 - Taxlots: LD 5 CHURCH
 - Location: 2,504,499.858 1,345,597.269 Meters
 - Field Value
 - OBJECTID: 5624987
 - UPDATED: 7/31/2010
 - PIN: RPC1521027351A
 - OWNER: LD 5 CHURCH
 - ADDRESS1: 22ND FLOOR 511-8166
 - ADDRESS2: 50 EAST NORTH TEMPLE
 - CITY: SALT LAKE CITY
 - STATE: UT
 - ZIPCODE: 84150-3620
 - P_ADDRESS: 20494 MAIN ST
 - P_ZIPCODE: 83320
 - SUB_NAME: CAREY TOWNSITE & TAXLOTS
 - LEGAL1: CAREY
 - LEGAL2: FR SW/4E TL 7600
 - LEGAL3: SEC 27 15 21E CHURCH
 - LEGAL4: EXEMPTION APP RECD FOR 2010
 - LEGAL5: <null>
 - LEGAL6: <null>
 - ACRES: 4.1
 - COUNTY: Blaine
 - SOURCE: <null>
 - YEAR_BUILT: 0
 - Identified 1 feature
- Map:** A cadastral map showing land parcels. A parcel is highlighted in blue and labeled 'Carey'. Other labels on the map include 'High Sch' and '27'.
- Status Bar:**
 - Process: POU - POD - Wells - SC - WMIS - Dam Safety - UIC - WRA
 - Number of Features selected: 1
 - 2504498.839 1345615.733 Meters

Church is in
Carey