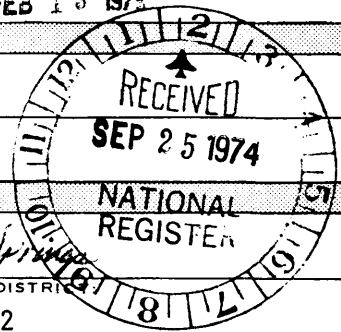


NATIONAL REGISTER OF HISTORIC PLACES
INVENTORY - NOMINATION FORM

(Type all entries - complete applicable sections)

STATE:	Idaho
COUNTY:	Gooding
FOR NPS USE ONLY	
ENTRY DATE:	FEB 13 1974



1. NAME

COMMON:
Priestly's Hydraulic Ram

AND/OR HISTORIC:

2. LOCATION

STREET AND NUMBER:
T8S, R14E *located south of Highway at Thousand Springs*

CITY OR TOWN:
near Hagerman

CONGRESSIONAL DISTRICT:
District #2

STATE: Idaho CODE: 16 COUNTY: Gooding CODE: 047

3. CLASSIFICATION

CATEGORY (Check One)	OWNERSHIP	STATUS	ACCESSIBLE TO THE PUBLIC
<input type="checkbox"/> District <input type="checkbox"/> Site <input checked="" type="checkbox"/> Object <input type="checkbox"/> Building <input checked="" type="checkbox"/> Structure	<input type="checkbox"/> Public <input checked="" type="checkbox"/> Private <input type="checkbox"/> Both	Public Acquisition: <input type="checkbox"/> In Process <input type="checkbox"/> Being Considered	<input type="checkbox"/> Occupied <input checked="" type="checkbox"/> Unoccupied <input type="checkbox"/> Preservation work in progress
PRESENT USE (Check One or More as Appropriate)			
<input checked="" type="checkbox"/> Agricultural <input type="checkbox"/> Commercial <input type="checkbox"/> Educational <input type="checkbox"/> Entertainment	<input type="checkbox"/> Government <input type="checkbox"/> Industrial <input type="checkbox"/> Military <input type="checkbox"/> Museum	<input type="checkbox"/> Park <input type="checkbox"/> Private Residence <input type="checkbox"/> Religious <input checked="" type="checkbox"/> Scientific	<input type="checkbox"/> Transportation <input type="checkbox"/> Comments <input checked="" type="checkbox"/> Other (Specify) <i>Private non residence</i>

4. OWNER OF PROPERTY

OWNER'S NAME:
Federal District Judge Willis Ritter

STREET AND NUMBER:

CITY OR TOWN:
Salt Lake

STATE:
Utah

5. LOCATION OF LEGAL DESCRIPTION

COURTHOUSE, REGISTRY OF DEEDS, ETC.:
Gooding County Courthouse

STREET AND NUMBER:

CITY OR TOWN:
Gooding

STATE:
Idaho

CODE:
16

6. REPRESENTATION IN EXISTING SURVEYS

TITLE OF SURVEY:
Idaho State Historic Preservation Plan

DATE OF SURVEY: 1972 Federal State County Local

DEPOSITORY FOR SURVEY RECORDS:
Idaho State Historical Society

STREET AND NUMBER:
610 N. Julia Davis Drive

CITY OR TOWN:
Boise

STATE:
Idaho

CODE:
16

SEE INSTRUCTIONS

STATE: Idaho

COUNTY: Gooding

ENTRY NUMBER: FEB 13 1974

DATE: FEB 13 1974

FOR NPS USE ONLY

7. DESCRIPTION

CONDITION	(Check One)					
	<input type="checkbox"/> Excellent	<input type="checkbox"/> Good	<input type="checkbox"/> Fair	<input checked="" type="checkbox"/> Deteriorated	<input type="checkbox"/> Ruins	<input type="checkbox"/> Unexposed
	(Check One)			(Check One)		
	<input type="checkbox"/> Altered	<input checked="" type="checkbox"/> Unaltered		<input type="checkbox"/> Moved	<input checked="" type="checkbox"/> Original Site	

DESCRIBE THE PRESENT AND ORIGINAL (if known) PHYSICAL APPEARANCE

About 1890, a settler near the Snake River named William W. Priestly invented a way to get water to flow uphill 110 feet to irrigate his land lying just above Thousand Springs near Hagerman. His pump consisted of a series of 24" diameter pipes made of 1/2" boiler plate (a metal reservoir tank) and to operate the pump, he first trained one pipe opening at the largest spring flowing from the cliff, catching the water in such a way that a great deal of air was combined with the water. This aerated water fell through the pipe for a distance of 190 feet to the reservoir at the bottom of the cliff. Here, the water was drained off into the river and the channeled air was forced by great pressure back up the cliff in a second pipe. The air pipe was connected to a third pipe which also caught spring water, although not as much as the first pipe. This pipe dropped the water sixty feet before it met the air pipe. When the air from the second pipe met the water from the third pipe, it pushed up a fourth pipe which fed the water onto the dry farmland above. Parts of the pipeline and the storage tank still remain at the site today.



SEE INSTRUCTIONS

4. SIGNIFICANCE

PERIOD (Check One or More as Appropriate)

- | | | | |
|--|---------------------------------------|--|---------------------------------------|
| <input type="checkbox"/> Pre-Columbian | <input type="checkbox"/> 16th Century | <input type="checkbox"/> 18th Century | <input type="checkbox"/> 20th Century |
| <input type="checkbox"/> 15th Century | <input type="checkbox"/> 17th Century | <input checked="" type="checkbox"/> 19th Century | |

SPECIFIC DATE(S) (If Applicable and Known) **1890**

AREAS OF SIGNIFICANCE (Check One or More as Appropriate)

- | | | | |
|---|---|--|--|
| <input type="checkbox"/> Aboriginal | <input type="checkbox"/> Education | <input type="checkbox"/> Political | <input type="checkbox"/> Urban Planning |
| <input type="checkbox"/> Prehistoric | <input type="checkbox"/> Engineering | <input type="checkbox"/> Religion/Philosophy | <input type="checkbox"/> Other (Specify) |
| <input type="checkbox"/> Historic | <input type="checkbox"/> Industry | <input checked="" type="checkbox"/> Science | _____ |
| <input checked="" type="checkbox"/> Agriculture | <input checked="" type="checkbox"/> Invention | <input type="checkbox"/> Sculpture | _____ |
| <input type="checkbox"/> Architecture | <input type="checkbox"/> Landscape Architecture | <input type="checkbox"/> Social/Humanitarian | _____ |
| <input type="checkbox"/> Art | <input type="checkbox"/> Literature | <input type="checkbox"/> Theater | _____ |
| <input type="checkbox"/> Commerce | <input type="checkbox"/> Military | <input type="checkbox"/> Transportation | _____ |
| <input type="checkbox"/> Communications | <input type="checkbox"/> Music | | _____ |
| <input type="checkbox"/> Conservation | | | _____ |

STATEMENT OF SIGNIFICANCE

Pioneer inventiveness, wrought of necessity, is dramatically shown in this ingenious device which enabled fertile but arid land to be farmed prosperously with the addition of water. Priestly's arable land was located 110 feet directly above Thousand Springs. Here he had plenty of water and 190 feet of fall to make his pump work well. The boiler plate pipes all had to be riveted together by hand, then lowered from the top of the cliff and set into place. This task alone must have taken considerable doing. To insure the continued success of his pump, in 1894 Priestly claimed the water rights on all of the waters of Thousand Springs.

Priestly's hydraulic ram, a pump with not one moving part, was considered truly marvelous. Although evidence points to a similar less sophisticated device in Arizona in 1886, four years before, Priestly is thought to have come upon his invention independently. Similar hydraulic air compressors were built near Montreal, Quebec in 1896, at Ainsworth, British Columbia in 1898 and at Norwich, Conn. in 1902. However, these pumps, which operated with about 70% efficiency, were displaced by much more efficient steam, gasoline and electric pumps, before any possible development of widespread use of Priestly's pump. The 1947 edition of the Encyclopedia Britannica describes Priestly's invention in detail. Few such original developments in the field of power transmission have been made anywhere in the United States.



SEE INSTRUCTIONS

9. MAJOR BIBLIOGRAPHICAL REFERENCES

Twin Falls Times-News, 21 May 1972.
Encyclopedia Britannica, 1947 edition.

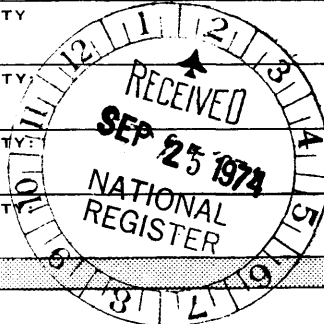
10. GEOGRAPHICAL DATA

LATITUDE AND LONGITUDE COORDINATES DEFINING A RECTANGLE LOCATING THE PROPERTY			O R	LATITUDE AND LONGITUDE COORDINATES DEFINING THE CENTER POINT OF A PROPERTY OF LESS THAN TEN ACRES		
CORNER	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	
	Degrees Minutes Seconds	Degrees Minutes Seconds		Degrees Minutes Seconds	Degrees Minutes Seconds	
NW	° ' "	° ' "		42° 44' 40"	114° 15' 25"	
NE	° ' "	° ' "				
SE	° ' "	° ' "				
SW	° ' "	° ' "				

APPROXIMATE ACREAGE OF NOMINATED PROPERTY: **less than one acre**

LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES

STATE:	CODE	COUNTY	CODE



No
v. m.
C.

SEE INSTRUCTIONS

11. FORM PREPARED BY

NAME AND TITLE:
Thomas B. Renk, Site Survey Staff

ORGANIZATION: **Idaho State Historical Society** DATE: **22 Feb. 1974**

STREET AND NUMBER:
610 N. Julia Davis Drive

CITY OR TOWN: **Boise** STATE: **Idaho** CODE: **16**

12. STATE LIAISON OFFICER CERTIFICATION **NATIONAL REGISTER VERIFICATION**

As the designated State Liaison Officer for the National Historic Preservation Act of 1966 (Public Law 89-665), I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service. The recommended level of significance of this nomination is:

National State Local

Name Merle W. Wells

Title State Historic Preservation Officer

Date 1 April 1974

I hereby certify that this property is included in the National Register.

[Signature]
 Director, Office of Archeology and Historic Preservation

Date 7/13/75

ATTEST:
[Signature]
 Keeper of The National Register

Date 2-12-75