

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Claim No: 15-04023
Exam Date: 10/26/2016

1. Current Owner:

CHAD L RINDLISBACHER 321 N 5400 W MALAD ID 83252 (208) 766-4945 AND

CAROL RINDLISBACHER 321 N 5400 W MALAD ID 83252 (208) 766-4599 AND

BLAIR PALMER 4029 WEST 500 SOUTH MALAD CITY ID 83252 (435)279-7049 AND

HEATHER PALMER 4029 W 500 S MALAD CITY ID 83252 (435)279-7049 AND

ROTATION CROP GROWERS WELL HOLBROOK STAR RT
HOLBROOK MALAD CITY ID 83252 AND

JENKIN PALMER ZZ

2. Accompanied by: Chad Rindlisbacher

Phone No: 208 313 4945

Address: 890 North 4600 West, Malad, ID 83252

Relationship to Claim Holder: Same

3. SOURCE:

GROUND WATER

TRIBUTARY:

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 15-7312 in Sections 22 and 23. Various other water rights overlap the remainder of the place of use, but information about them is vague. Right 15-2032 overlaps in NWSE of Section 23, but is proposed to be moved off that land in Transfer 81272.

2. Other water rights with the same point-of-diversion: None

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

GROUND WATER NE¼SW¼ Sec. 23, Twp 14S, Rge 35E, B.M. ONEIDA County

Method of Determination: GPS and ArcMap.

2.

PLACE OF USE: IRRIGATION

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
14S	35E	22				40													40.0
14S	35E	23							40.0	40.0						40.0			120.0
14S	35E	25						40.0	40.0										80.0
14S	35E	26	40.0			40.0									40.0	40.0	40.0		200.0
14S	35E	35		40.0															40.0

Total Acres: 480

Method of Determination: Aerial photography and ArcMap. The above place of use reflects the changes authorized under Transfer 81294.

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.

What was pump HP?

D. FLOW MEASUREMENTS

A direct measurement could not be taken, so a theoretical was performed as detailed below.

E. FLOW CALCULATIONS

☐ Additional Computation Sheets Attached

A 50 horse power pump and 30 horse power booster discharged from the well to four 1/4 mile wheel lines.

Each wheel line had 32 sprinklers with 3/16" nozzles. When fully pressurized, the system maintained a level of 50 PSI.

According to "Exhibit 9, Sprinkler System Discharge," 3/16" nozzles at 50 psi yield 7.41 gallons per minute.

$7.41 \text{ gpm/sprinkler} \times 4 \text{ wheel lines/system} \times 32 \text{ sprinklers/wheel line} = 948.48 \text{ gpm/system}$. $948.48 \text{ gpm/system} / 448.84 \text{ gpm/cfs} = 2.11 \text{ cfs/system}$.

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 480 \text{ acres} \times 3.5 \text{ AFA/Acre} = 1680 \text{ AFA}$

$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 2.11 \text{ cfs} \times 1.9835 \text{ acre feet per cfs/day} \times 154 \text{ days/irrigation season} = 645.5 \text{ AF/irrigation season}$.

However, the volume on the water right will be limited by amount claimed, **624.0 AF/irrigation season**.

$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = 624.0 \text{ AFA}$

G. NARRATIVE/REMARKS/COMMENTS

Four affidavits, signed in 1978, all testified to the fact that water from the well had been used on the lands covered in the claim since the well was completed in April 1941. Three of those affidavits included a statement that the well was used on "approximately" 360 acres of the 480 acres described as the place of use. Evidence available to the Department, including aerial photography, indicates that the lands have been consistently irrigated since April of 1941.

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
IRRIGATION	5/01 to 10/01	2.11 CFS	624.0 AF
	<u>Totals:</u>	2.110 CFS	624.00 AF

2. Recommended Amendments

_____ Change P.D. as reflected above _____ Add P.D. as reflected above X None

_____ Change P.U. as reflected above _____ Add P.U. as reflected above X None

I. AUTHENTICATION

Field Examiner's Name _____ Cooper Fritz _____ Date _____ 12/1/2016 _____

Reviewer _____ Date _____

State of Idaho
County of Caida

being first duly sworn,

deposes and says: Being I am a son of Henry Stagner, who originally had interest in irrigation well drilled on NW quarter of SW quarter, Sect. 23 Township 14, Sec. 35, E Base Meridian, I am personally acquainted with and have knowledge of the fact that the interest owned by my father was sold to Joseph Palmer.

The above said well was completed in April of 1941 and was used by members of the Rotation Camp Straws Inc. from that date and by the original owners and those who they have sold it to since that date.

J. Lynne Stagner
(signature)

Subscribed and sworn to before me this 26 day of Feb, 1978

(Notary Public)

Residing at _____
My Commission Expires _____

Micro

IN THE MATTER OF:)

CLAIM TO WATER RIGHTS)

AFFIDAVIT

State of Idaho)

County of Oneida)

George A. Palmer

being first duly sworn,

deposes and says: That the water from the underground well situated on the northeast quarter of the SW quarter, Section 23, Township 14, South 35, East Boise Meridian, is used on lands to the east and south of the point of diversion, including approximately 120 acres of Melvin Richards' property, 100 acres of George Palmer's property and 145 acres of the W. H. Palmer estate. Properties have been utilized to produce crops since its original drilling in April of 1941 to the present date.

Further, there was a joint venture of the Rotation Crop Growers Association including Dr. Thomas Richards, Henry Stayner, Lawrence Jones, W. H. Palmer, and Joseph Palmer, 1/5 undivided interest. In later years, Mr. Stayner's and Mr. Jones' property was sold to Dr. Richards and Joseph Palmer, thus owning 2/5 Dr. Richards, and 2/5 Joseph Palmer, and W. H. Palmer 1/5. The water is apportioned according to the amount of ownership within the group.

Although the above lands described to be irrigated by said well are greater than the capacity, all of the owners of the well have additional irrigation property to implement the amount of water derived from the well.

George A. Palmer
(Signature)

Subscribed and sworn to before me this 4th day of February, 1948

Lawrence E. Cronin
(Notary Public)

Residing at Malheur, Idaho
My Commission Expires 6-15-50

RECORDED

IN THE MATTER OF:

CLAIM TO WATER RIGHTS

State of Idaho
County of Oneida

AFFIDAVIT

Melvin A. Richards

being first duly sworn,

deposes and says: That the water from the underground well situated on the northeast quarter of the NW quarter, Section 23, Township 14, South 35, East Boise Meridian, is used on lands to the east and south of the point of diversion, including approximately 120 acres of Melvin Richards' property, 100 acres of George Palmer's property and 145 acres of the W. H. Palmer Estate. Properties have been utilized to produce crops since its original drilling in April of 1941 to the present time.

Further, there was a joint venture of the Rotation Crop Growers Association including Dr. Thomas Richards, Henry Stayner, Lawrence Jones, W. H. Palmer, and Joseph Palmer, 1/5 undivided interest. In the later years, Mr. Stayner's and Mr. Jones' property was sold to Dr. Richards and Joseph Palmer, thus owning 2/5 Dr. Richards, and 2/5 Joseph Palmer, and W. H. Palmer 1/5. The water is apportioned according to the amount of ownership within the group.

Although the above lands described to be irrigated by said well are greater than the capacity, all of the owners of the well have additional irrigation property to implement the amount of water derived from the well.

Dr. Melvin M. Richards
(Signature)

Subscribed and sworn to before me this 24 day of February, 1978.

Pat S. Felt
(Notary Public)

Residing at Pocatello, Idaho
My Commission Expires Oct 1978

RECORDED

IN THE MATTER OF:
CLAIM TO WATER RIGHTS

AFFIDAVIT

State of Idaho
County of Oneida

Jenkin L. Palmer being first duly sworn,
deposes and says: That the water from the underground well situated on
the northeast quarter of the SW quarter, Section 23, Township 14, South 35,
East Boise Meridian, is used on lands to the east and south of the point of
diversion, including approximately 120 acres of Melvin Richards' property,
100 acres of George Palmer's property and 145 acres of the W. H. Palmer
Estate. Properties have been utilized to produce crops since its original
drilling in April of 1941 to the present time.
Further, there was a joint venture of the Rotation Crop Growers Association
including Dr. Thomas Richards, Henry Stayner, Lawrence Jones, W. H.
Palmer, and Joseph Palmer, 1/5 undivided interest. In later years, Mr. Stayner's
and Mr. Jones' property was sold to Dr. Richards and Joseph Palmer, thus
owning 2/5 Dr. Richards, and 2/5 Joseph Palmer, and W. H. Palmer 1/5. The
water is apportioned according to the amount of ownership within the group.

Although the above lands described to be irrigated by said well are
greater than the capacity, all of the owners of the well have additional
irrigation property to implement the amount of water derived from the well.

Jenkin L. Palmer
(Signature)

Subscribed and sworn to before me this 26th day of January, 1978.

Janice Ingle
Notary Public

Residing at Boise, Idaho
My Commission Expires _____

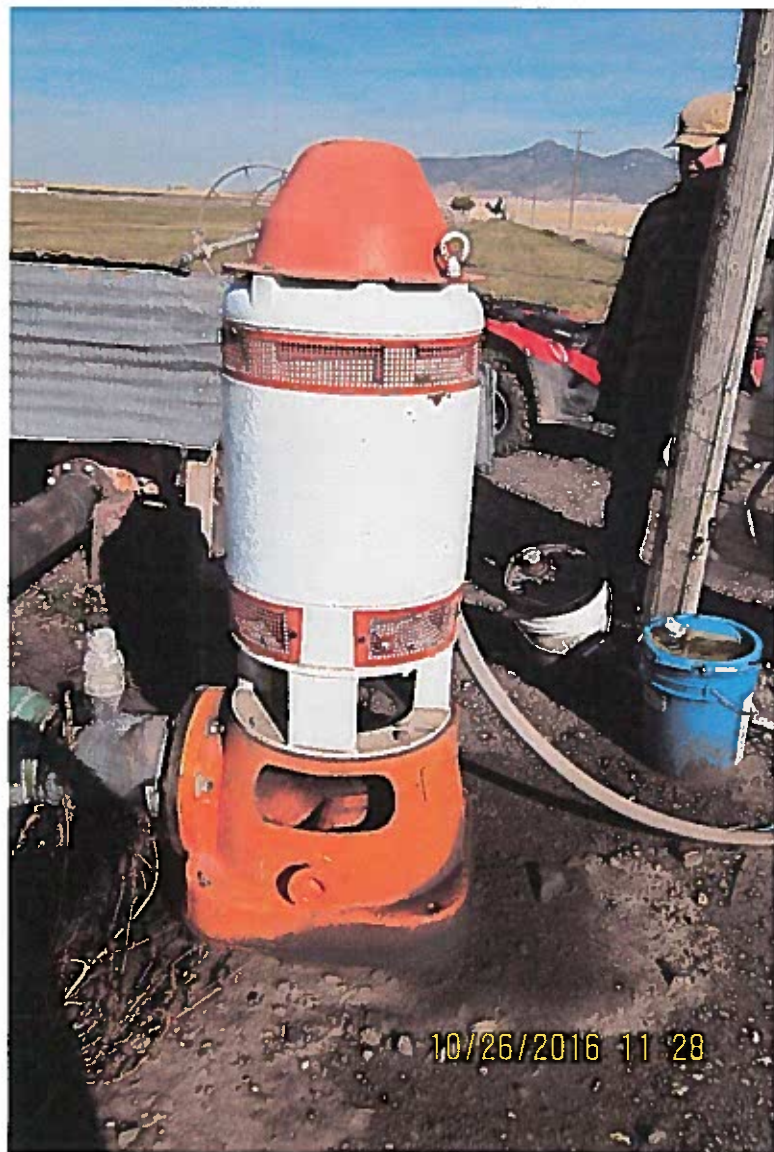
MICROFILMED

Log of 14" Well Drilled by Charles B
Gardner

Rotation Crop Growers Inc:
Joe Palmer, W. H. Palmer, Fred Jones Jr.
Henry Stayner, Thomas M. Richards-

From	0 ft.	to	2 ft.	soil.
"	2 "	"	25 "	Clay.
"	25 "	"	67 "	Clay yellow
	67		80	gravel (dry)
	80		158	Gravel (Perforated below 90')
	158		177	Clay yellow-
	177-		186	Gravel (Perf.)
	186.		198	Clay.
	198		201	gravelly clay. (Perf)
	201		209	gravel (Perf)
	209		212	Clay-
	212		231	gravel (Perf)
	231		241	Clay yellow
	241		244	gravel (Perf)
	244		251	Clay.

Well cased with 14 inch Double Hard
Red steel casing. Perforated with
Mills perforator at all gravel strata
below 90 feet.
Drilling completed in April 1941





SPRINKLER SYSTEM DISCHARGE

NOZZLE DISCHARGE - GALLONS PER MINUTE							
psi	3/32	1/8	9/64	5/32	11/64	3/16	13/64
20	1.17	2.09	2.65	3.26	3.92	4.69	5.51
25	1.31	2.34	2.96	3.64	4.38	5.25	6.16
30	1.44	2.56	3.26	4.01	4.83	5.75	6.80
35	1.55	2.77	3.50	4.31	5.18	6.21	7.30
40	1.66	2.96	3.74	4.61	5.54	6.64	7.80
45	1.76	3.13	3.99	4.91	5.91	7.03	8.30
50	1.85	3.30	4.18	5.15	6.19	~~7.41~~	8.71
55	1.94	3.46	4.37	5.39	6.48	7.77	9.12
60	2.03	3.62	4.50	5.65	6.80	8.12	9.56
65	2.11	3.77	4.76	5.87	7.06	8.45	9.92
70	2.19	3.91	4.96	6.10	7.34	8.78	10.32
75	2.27	4.05	5.12	6.30	7.58	9.08	10.66
80	2.35	4.18	5.29	6.52	7.84	9.39	11.02
85	2.42	4.31	5.45	6.71	8.07	9.67	11.35
90	2.49	4.43	5.61	6.91	8.31	9.95	11.69
95	2.56	4.56	5.76	7.09	8.53	10.20	11.99
100	2.63	4.67	5.91	7.29	8.76	10.50	12.32

AVERAGE APPLICATION RATE - INCHES PER HOUR

Spacing in Feet	Discharge From Each Sprinkler						
	2 gpm	3 gpm	4 gpm	5 gpm	6 gpm	7 gpm	8 gpm
20x20	0.48	0.72	0.96	1.20	1.44	1.70	1.95
20x30	0.32	0.48	0.64	0.80	0.96	1.12	1.28
20x40	0.24	0.36	0.48	0.60	0.72	0.84	0.96
30x30	0.21	0.32	0.43	0.54	0.64	0.75	0.88
30x40	0.16	0.24	0.32	0.40	0.48	0.56	0.64
30x50	0.13	0.19	0.25	0.32	0.38	0.45	0.51
40x40	0.12	0.18	0.24	0.30	0.36	0.42	0.48
40x50	0.1	0.14	0.19	0.24	0.29	0.34	0.38
40x60		0.12	0.12	0.20	0.24	0.28	0.32