

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 41-7057

Exam Date: 8/7/2012

1. Current Owner: UDY BROTHERS PARTNERSHIP
455 PIERCE ST
AMERICAN FALLS ID 83211
(208)226-7857
2. Accompanied by: George Udy
Phone No: 208-221-7755
Address: 455 Pierce American Falls ID. 83211
Relationship to Permit Holder: Owner

3. SOURCE**TRIBUTARY**

GROUND WATER

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 41-7026
2. Other water rights with the same point of diversion: 41-7026

C. DIVERSION AND DELIVERY SYSTEM**1. LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER	SW1/4SE1/4	Sec. 1,	Twp 10S,	Rge 30E, B.M.
POWER County				
GROUND WATER	NE1/4NW1/4	Sec. 12,	Twp 10S,	Rge 30E, B.M.
POWER County				
GROUND WATER	SE1/4SW1/4	Sec. 1,	Twp 10S,	Rge 30E, B.M.
POWER County				

Method of Determination: GPS

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	
10S	30E	1								.7				36.0		1.5	36.0		74.2
10S	30E	12	14.0	39.0	32.0		38.0			31.0									154.0

Total Acres: 228.2

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>
A0010376	US	100	02849-08-173	NA	NA
A0006376 Booster	Fairbanks Marathon	75 40	T1320-1 2A2862TUP70BBB	NA Paco	NA NA
A0010375	GE	100	LHJ1110347	Berkley	70200451

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>
Flow meter	Ultra Sonic	Polysonics	TFP	NA	NA	March 1999

2. Measurements:

Measurements were conducted by a contractor (Idaho Power Company) for the American Falls/Aberdeen GW district. The following information is from the WMIS data based with dates of measurements along with system description of the system at the time of the measurement.

A0010376 or Middle well measurement:

#	15757	Condition Date:	06/22/1999	ConditionPCC:	737.30	Percentage:	100
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KW: 78.20Boost On: No

GPM:576.0Description:4 W/L 9/64

PSI: 84

A0010375 or Pivot well measurement:

#	15761	Condition Date:	06/22/1999	ConditionPCC:	736.40	Percentage:	100
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KW: 76.20Boost On: No

GPM:562.0Description:1 pivot

PSI: 48

A0006376 or Booster well measurement:

#	15416	Condition Date:	07/12/1999	ConditionPCC:	730.50	Percentage:	50
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KW: 80.30Boost On: No

GPM:597.0Description:8 Handlines vary in length-all shorter than 32 birds

PSI: 80

E. FLOW CALCULATIONS

____ Additional Computation Sheets Attached

Measured Method:

Sum of the three measurements 1735 GPM or 3.87 cfs

CFS limit per acre = .02 (cfs)(#acres)= 4.56

Rate limited to system capacity of 3.87 cfs

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (228.2) \times (4) = 912.8$$

$$V_{D.R.} = [3.87 \times (184) \times 1.9835] = 1412.41$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = 912.8$$

2. Volume Calculations for Other Uses:

G. NARRATIVE/REMARKS/COMMENTS

Irrigation system consist of one full circle pivot a small corner pivot and four wheel lines. Three wells all tied together. The full pivot cannot run in a complete circle due to three phase power line. Well capacity is limited to alternating set systems and pivots, capacity cannot cover the complete system at the same time. End gun on full pivot is boosted and changes rate of flow by about 95 gpm. Field exam work did not include ultrasonic measurement at time of visit, overview of the system does show similar operating conditions as were measured by the American Falls Aberdeen Water District Hydrographer. Water right 41-7026 was licensed at about 0.25 inch to the acre rate significantly less than what irrigation requirements are for this area. This permit was filed to increase authorized rates of flow up to 0.75 inches to the acre which will provide sufficient flow for this area. Therefore the combined rate of 3.87 cfs should be cumulative on the 250 acres being irrigated under these two rights.

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	03/15 to 11/15	3.870 CFS	912.80 AF
<u>Totals:</u>		3.870 CFS	912.80 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 in red text above ☐ Other

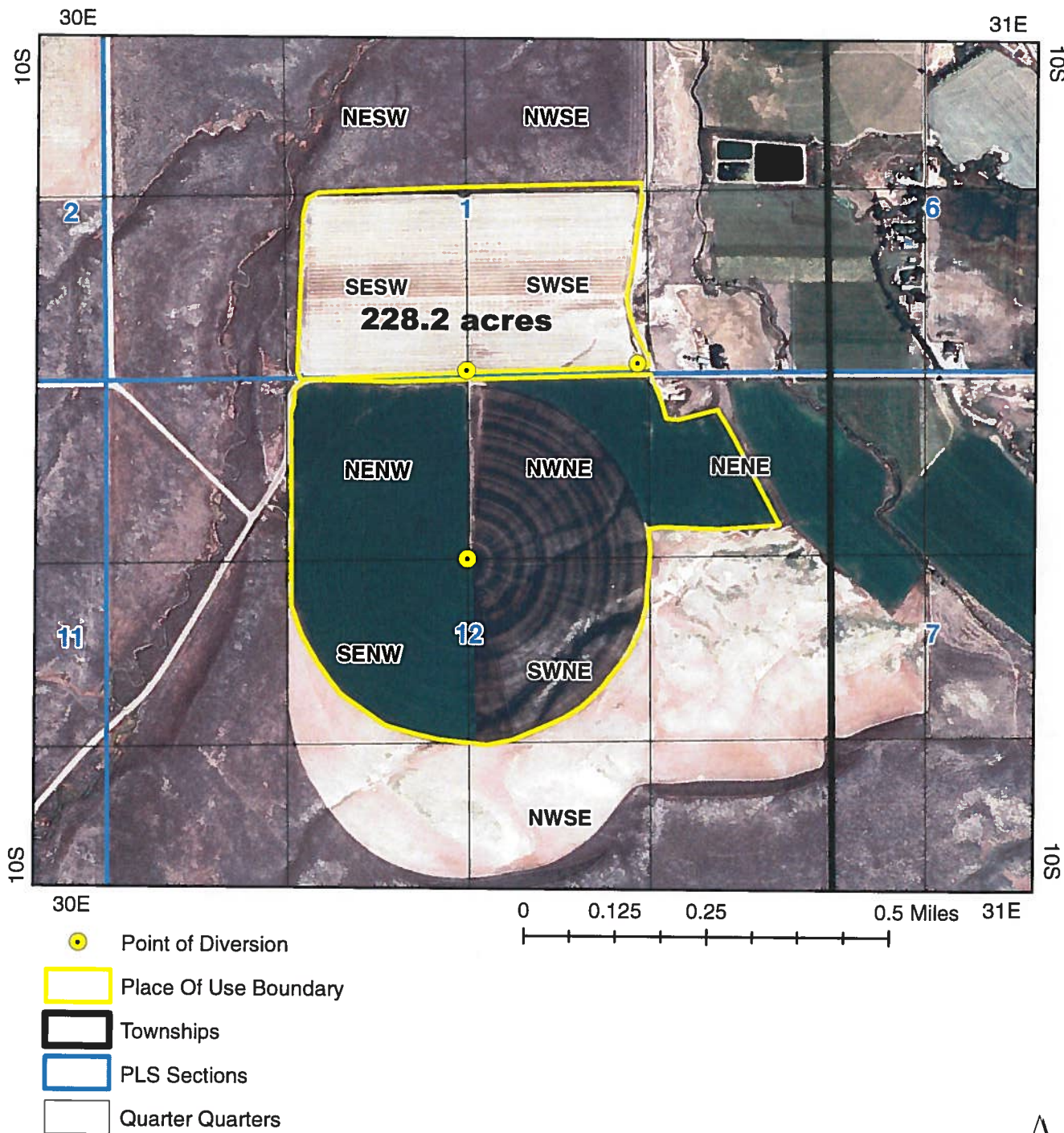
I. AUTHENTICATION- Corbin R Knowles

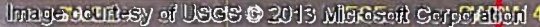
Field Examiner's Name Cheryl Date 1/14/15

Reviewer _____ Date _____

State of Idaho
Department of Water Resources
Field Exam Map
41-7057

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



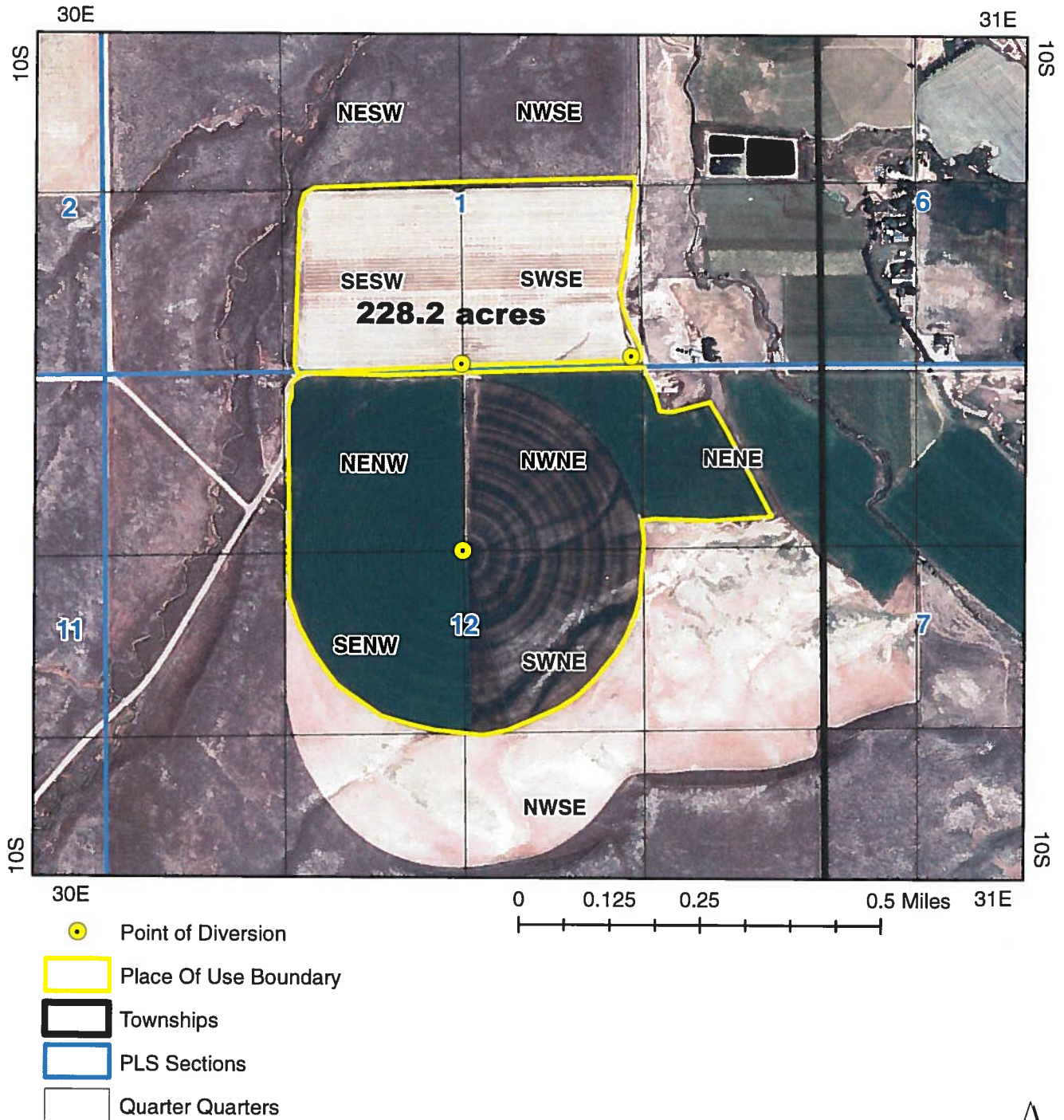


41-7057_system_diagram



State of Idaho
Department of Water Resources
Attachment To Water Right License
41-7057

This map depicts the IRRIGATION place of use boundary for this water right at the time of this approval and is attached to the approval document solely for illustrative purposes.



(Sign once if Firm Official & Operator)

MAR 17 2005