

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 43-13424

Exam Date: 5/18/2012

1. Current Owner: LARRY KINCADE
1781 E HWY 77
MALTA ID 83342
(208)645-2346

And

DARLENE KINCADE
1781 E HWY 77
MALTA ID 83342
(208)645-2346

2. Accompanied by: Larry Kincade

3. SOURCE

SPRING

TRIBUTARY

SINKS

B. OVERLAP REVIEW

1. Other water rights with the same place of use: 43-10505 (separate system, not combined); 45-10509
(In-stream stockwater from different spring source)
2. Other water rights with the same point of diversion: None

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

SPRING

SW1/4NW1/4NW1/4

Sec. 25, Twp 13S, Rge 25E, B.M.

CASSIA County

Method of Determination: Waypoints were collected with a Garmin GPS map 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2009 and 2011 aerial photography and verified the point of diversion to be in Twp 13s Rge 25E Sec 25 SWNWNW¼. See attached map.

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
13S	25E	25						X											
13S	26E	19								X	X	X	X	X	X	X	X	X	
											L 3	L 4							
13S	26E	20									X	X							

Method of Determination: Waypoints were collected with a Garmin GPS map 60CSx receiver and downloaded into an ArcMap shapefile that corresponds with 2011 and 2009 aerial photography and verified the troughs to be in the permitted places of use. See attached map.

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

D. FLOW MEASUREMENTS

1.

Measurement Equipment

5 gal Bucket

2. Measurements: Filled 5 gal bucket three times:
29.8 sec
28.5 sec
30.2 sec
Average = 29.5; approximately 10 gpm or 0.02 cfs

E. FLOW CALCULATIONS None

F. VOLUME CALCULATIONS Not required under the current beneficial use examination rules.

G. NARRATIVE/REMARKS/COMMENTS

Permit 45-13424 is for 0.04 cfs stockwater in trough system supplied water from a spring source.

Application for permit 45-13424 submitted by Larry and Darlene Kincade was filed on January 30, 2006 and proof of Beneficial Use was submitted March 8, 2007.

With assistance from the NRCS, Mr. Kincade has developed a stockwater trough system that diverts water from a springbox through a 1.5" and 1.25" polyethylene pipeline system over a distance of approximately 2.2 miles and delivers it to 18 troughs at various locations along the pipeline. There are 5 troughs with an 8' diameter (approximately 600 gallons) and 13 troughs with a 5.6' diameter (approximately 350 gallons). Two of the troughs are near the spring where Mr. Kincade winters his 350 cattle in the NWNW1/4 of Section 25. On the ranch, in the SW1/4 and SE1/4 of Section 19 and the NWSW1/4 and SWSW1/4 of Section 20, the cattle are moved around on three different pastures and typically only 5 troughs are kept filled at any one time.

Overlap analysis indicates there is place of use overlap with water right 43-10519 in the NWNW1/4 of Section 25. Water right 43-10509 is an instream stockwater right and on the application for permit the remarks stated this permit would be from the same spring as this right. I verified this permit is from a separate spring source with a separate point of diversion from water right 43-10509. There is an additional place of use overlap from ground water right 43-10505 (stockwater and domestic) in the NWSW1/4 of Section 20. Water right 43-10505 delivers stockwater to two troughs in the corral adjacent to the house and is a completely separate system.

Applicant applied for a diversion rate of 0.04 cfs, but the actual flow rate measured was 0.02 cfs.

Recommend permitting 0.02 cfs

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>
STOCKWATER	01/01 to 12/31	0.020 CFS
<u>Totals:</u>		0.020 CFS

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

5-23-2012

Reviewer

Date

5/25/2012

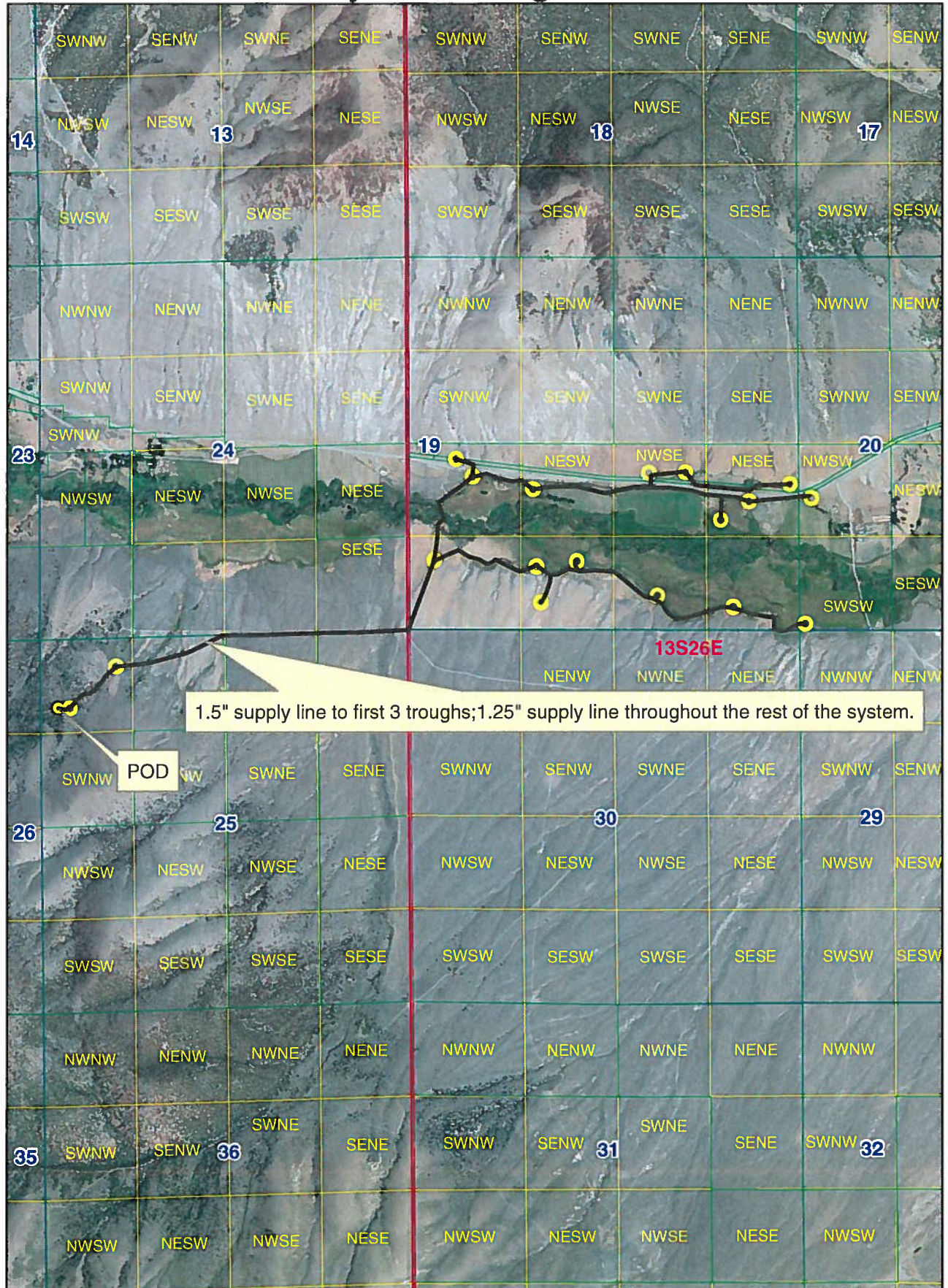


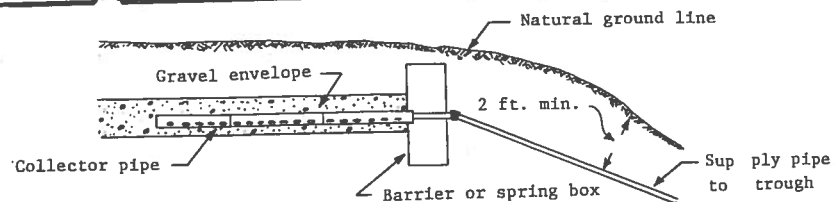
Figure 1: Spring box.



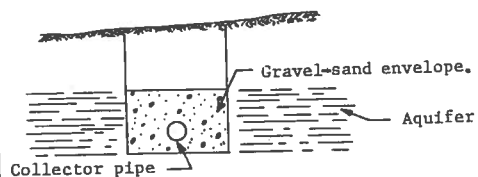
Figure 2: Small trough near the spring.

System Diagram

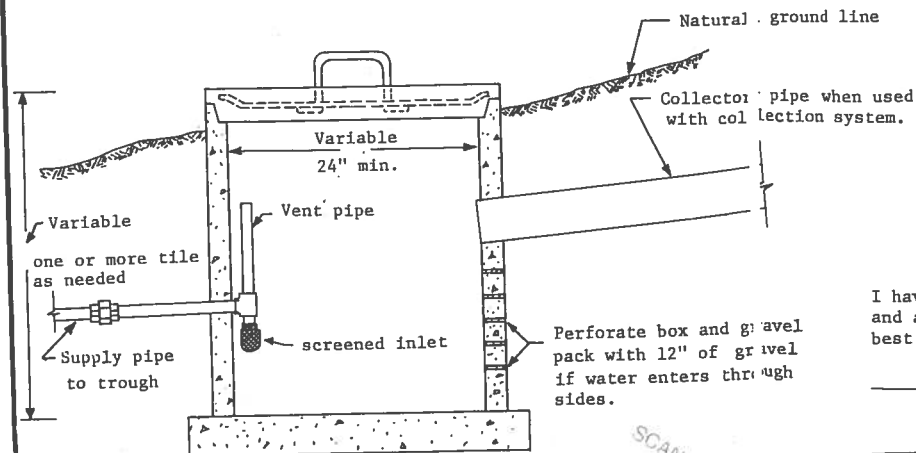


**ELEVATION**

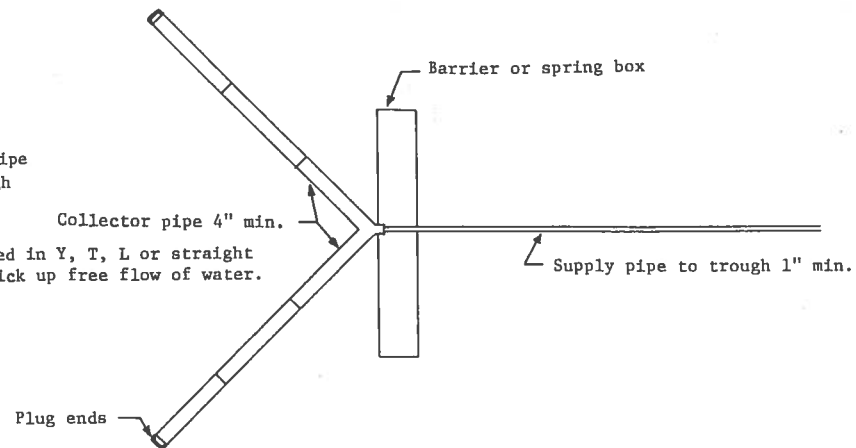
Can be installed in Y, T, L or straight line to best pick up free flow of water.

**TRENCH DETAIL**

Spring box to be used when water emerges in one spot or with collection system above. Box may be concrete or metal pipe.



Concrete bottom or filter gravel (min. 6" thick) if water enters through bottom.

**SCHEMATIC LAYOUT**

Box: _____
(Material)

Size _____

Collection system: _____

Supply pipe: _____

(Diameter & type)

Protection of source _____

Job class _____

PLAN

I have reviewed the plans and specifications and agree to construct this project to the best of my ability in accordance with them.

Cooperator Date: _____

CONSTRUCTION SPECIFICATIONS
ID-SS-E _____ ATTACHED

SPRING DEVELOPMENT	
COOPERATOR _____	
SCD _____ CO., IDAHO	
U. S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE	
Designed _____	Date _____
Drawn _____	Approved by _____
Typed _____	File _____
	Stamp _____

State of Idaho
Department of Water Resources

Attachment To Water Right License

43-13424

This map depicts the STOCKWATER 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.

