

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 84-7299

Exam Date: 12/27/2013

1. Current Owner: EVAH HICKS
C/O JEFF HICKS
PO BOX 948
ARTESIA NM 88211
(505) 746-0700

AND

ROYCE E HICKS
4229 VIEW POINT DR
AHSAHKA ID 83520
(208)476-7475

2. Accompanied by: N/A (In house exam)

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: 84-12109
2. Other water rights with the same point of diversion: None

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

GROUND WATER NE1/4SE1/4 Sec. 24, Twp 35N, Rge 03E, B.M.

CLEARWATER County

Method of Determination: Air photos and topographic maps

2.

PLACE OF USE: STOCKWATER

Twp	Rge	Sec	NE				NW				SW				SE				
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	Totals
35N	03E	24									X								

DOMESTIC same as STOCKWATER

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>
Well	UNK	0.5	UNK	UNK	UNK

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>
-----NA (In house exam, no measurements taken)-----						

E. FLOW CALCULATIONS☒ Additional Computation Sheets Attached

Measured Method:

Theoretical horsepower calculator

F. VOLUME CALCULATIONS

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) =$$

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

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

2. Volume Calculations for Other Uses: Stock water volume: 40 head X 12 gpd/head X 365 = 175200/325850 = 0.55 AF

G. NARRATIVE/REMARKS/COMMENTS

Permit 84-7299 authorized the use of 0.04 cfs of ground water for domestic and stock water purposes. The proof of beneficial use form indicates the system provides water for use in one home and waters 40 mixed head of cattle. The source of the water is a single ground water well.

Proof of beneficial use was filed on 03/05/1999.

To conduct the in-office field exam for this water right permit, the file was reviewed as well as aerial photographs. The taxlot information indicates that a company by the name of Lolo Land and Livestock, LLC owns the land.

Based on the IDWR water right database, it appears that there is an overlap with water right 84-12109. This right is a spring source water right and is owned by the applicant and the place of use for this right is in the southern portion of the POU for this water right. It appears the POU for 84-12109 is an additional water right for stock water use from the springs located on the southern portion of the property. The source of water for this permit is a ground water well, located east of the POU approximately ½ mile.

Information regarding the well was provided in the water right file. The well was drilled in September, 1991, to a depth of 70 feet below land surface. The well was drilled as a 6-inch well, and was tested at 30 gallons per minute. The proof of beneficial use form indicates the well is equipped with a ½ Hp pump. The theoretical horsepower calculation spreadsheet is attached.

Based on the aerial photographs and information in the proof of beneficial use form, the place of use was determined. The POU includes a 40-acre parcel that covers the single home that is supplied water under this right, the irrigation of ½ acre of lawn, garden, and orchard as well as the land used by livestock.

The stock water use is assigned to the quarter-quarter sections identified in the water right permit. The beneficial use form indicates that 40 head of mixed stock utilized the water for this use of the permit. Using the recommended diversion rates and volumes, a rate of 0.04 cfs and a volume of 0.55 AFA are recommended.

The domestic use is limited to the one house and the irrigation of ½ acre. Using the recommended rates and volume limits listed on page 2 of administrator's memo #22, 0.4 cfs and 1.2 AF are recommended.

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>
DOMESTIC	1/01 to 12/31	0.040 CFS	1.2 AF
STOCKWATER	1/01 to 12/31	0.040 CFS	0.5 AF
<u>Totals:</u>		0.040 CFS	1.7 AF

2. Recommended Amendments

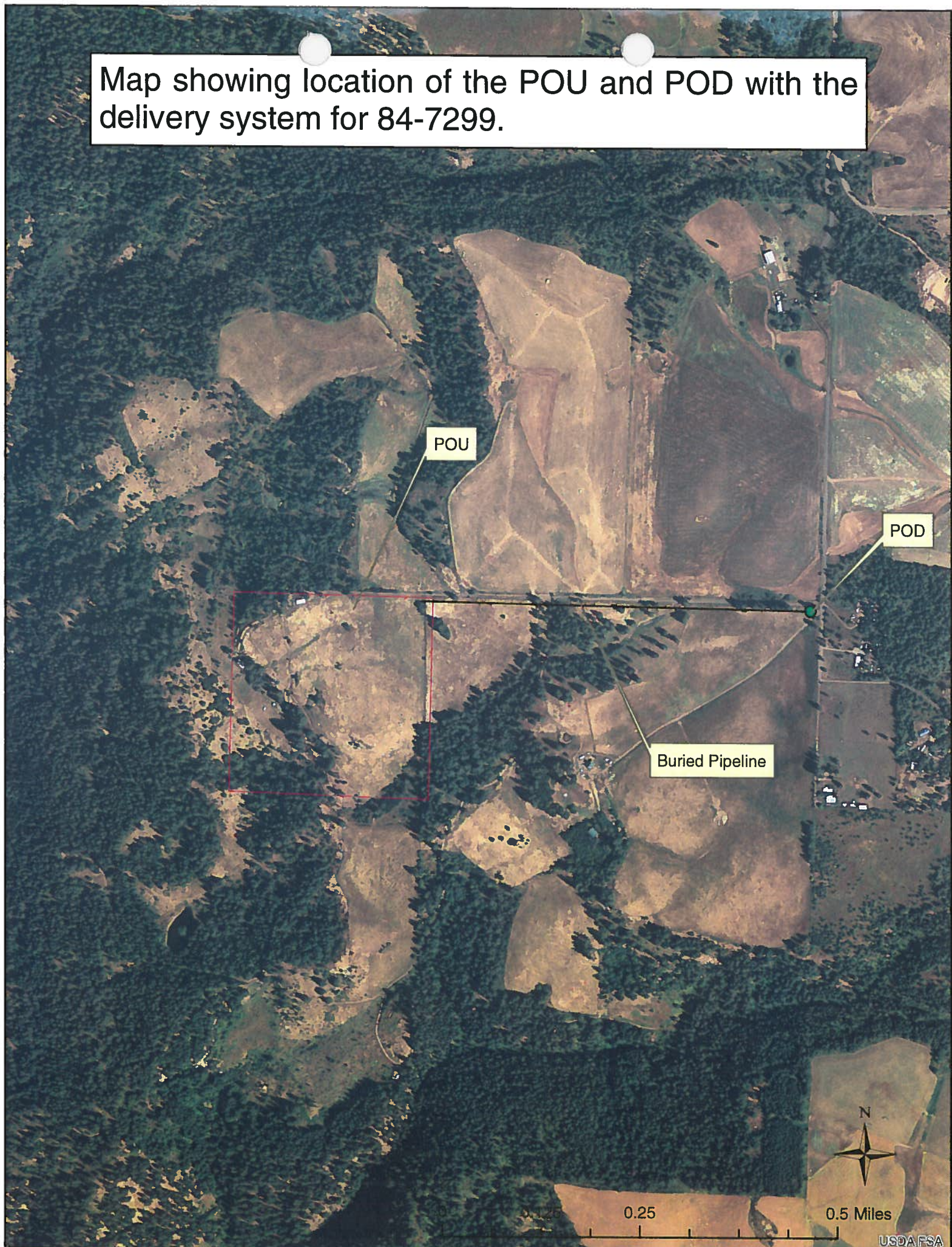
☐ Change P.D. as reflected above ☐ Add P.D. as reflected above ☒ None

☐ Change P.U. as reflected above ☐ Add P.U. as reflected above ☐ Other

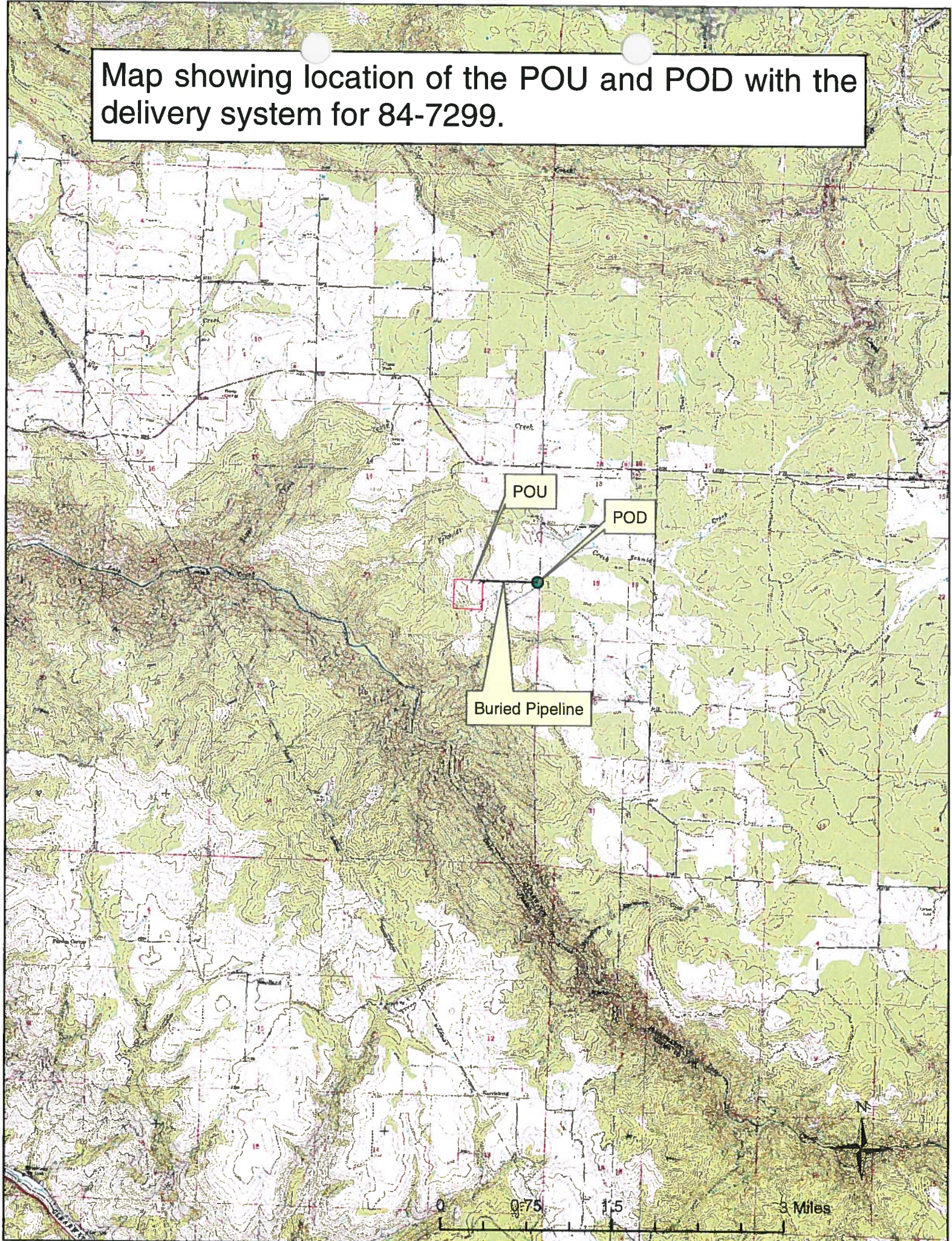
I. AUTHENTICATION

Field Examiner's Name  Date 1/2/2014
 Reviewer Daniel A. Webb Date 1-3-14

Map showing location of the POU and POD with the delivery system for 84-7299.



Map showing location of the POU and POD with the delivery system for 84-7299.



THEORETICAL HORSEPOWER EQUATION WORKSHEET (cjh 1/92)

Water Right No.: 84-7299
 Examiner: D. Owsley
 Date of Field Exam: 12/27/2013

	Option 1	Option 2	Option 3
P/D No.: D0033611			
PUMP HORSEPOWER	0.5	0.5	0.5
BOOSTER HORSEPOWER	0	0	0
PUMPING LEVEL	51	51	51
DISCHARGE PRESSURE	10	20	30
FRICTION	0	0	0
RATE OF FLOW (cfs)	0.04	0.03	0.03
(gpm)	18.7	14.2	11.5

The above calculates the formula =

$$Q = \frac{8.8 * (\text{Efficiency}) * \text{hp}}{\text{depth to water} + 2.31 * (\text{psi}) + \text{friction}}$$

Assumptions: %70 efficiency.

Examiners Notes: