

[illegible]

Method of Determination: Bladder visible on imagery. Troughs visible on imagery.

Change in POU? ☒X ☐Y ☐N Amendment Required? ☐X ☒Y ☐N☐ Delivery System Diagram Attached (required). Indicate all major components and distances between components.

Indicate weir size/pipe as applicable.

☐ Aerial Photo Attached (required for irrigation of 10+ acres).☐ Photo of Diversion and System Attached

4. Well or Diversion Identification No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size

*Code to correspond with No. on map and aerial photo

D. FLOW MEASUREMENTS

1.Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date

2. Measurements: < _____ >

E. FLOW CALCULATIONS☐ Additional Computation Sheets Attached

Measured Method:

0.14 cfs is equal to the recommended per Application Processing Memo #3 for 501-600 head of stock.

No evidence of extra cfs being diverted specifically for wildlife. 0.09 cfs for stock, 0.05 cfs for wildlife

Per memo from Dan Nelson dated 12/04/13 – recommend based on stockwater amounts for 341 range cattle and wildlife amount for 160 wild horses.

For Diversion to storage see memo from Dan Nelson dated 12/04/13. – 0.16 cfs recommended.

Permit allowed = 0.16 cfs – 0.09 cfs for cattle, 0.07 cfs for horses, 0.16 cfs diversion to storage.**License recommend for 0.14 cfs stock and wildlife. - 0.09 cfs for cattle, 0.05 cfs for horses and 0.16 cfs diversion to storage.****F. VOLUME CALCULATIONS**

1. Volume Calculations for Irrigation:

$$V_{I.R.} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = \underline{\hspace{2cm}}$$

$$V_{D.R.} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = \underline{\hspace{2cm}}$$

$$V = \text{Smaller of } V_{I.R.} \text{ and } V_{D.R.} = \underline{\hspace{2cm}}$$

2. Volume Calculations for Other Uses:

Stock:

$$501 \times 0.0134 = 6.7 \text{ afa}$$

Recommendation per Application Processing Memo #3 : 501 – 600 head = 8.1 afa

Per memo from Dan Nelson dated 12/04/13 – recommend based on stockwater amounts for 341 range cattle and wildlife amount for 160 wild horses.

- License recommend for 6.8 afa for stockwater use – 4.6 afa for cattle, 2.2 afa for horses

Bladder:

Per application, bladders is 14855 gal. 14855 gal X 1/325850 af/gal = 0.1 afa single fill

- License recommend for 0.1 afa for stockwater/wildlife storage

G. PURPOSE OF USE

Irrigation _____N # Stock_501 = 341 cattle, 160 horses___ Domestic # of Homes _____

Other: Wildlife

Change in Purpose of Use? ____Y__X__N

Method of Determination: Information provided by permit holder.

If Yes: From Use _____ To Use _____ Amount _____ CFS _____ AFA _____

H. NARRATIVE/REMARKS/COMMENTS

Upper Rats Nest Spring Project 0075 Rats Nest Allotment 0522
Water District 57E

At time of proof, 2 troughs and one bladder were functional. Se memo dated 12/02/13.

Have conditions of permit approval been met? __X__Yes ____No

I. RECOMMENDATIONS

1. Recommended Amounts

<u>BENEFICIAL USE</u>	<u>PERIOD OF USE</u>	<u>DIVERSION RATE</u>	<u>ANNUAL VOLUME</u>
Stockwater Storage	01/01 to 12/31	0.0 CFS	0.1 AFA
Stockwater From Storage	01/01 to 12/31	0.0 CFS	0.1 AFA
Stockwater	01/01 to 12/31	0.9 CFS	4.6 AFA
Wildlife	01/01 to 12/31	0.5 CFS	2.2 AFA
Wildlife Storage	01/01 to 12/31	0.0 CFS	0.1 AFA
Wildlife From Storage	01/01 to 12/31	0.0 CFS	0.1 AFA
Diversion To Storage	01/01 to 12/31	1.6 CFS	0.0 AFA
<u>Totals:</u>		1.6 CFS	6.9 AFA

2. Recommended Amendments

__X__Change P.D. as reflected above ____Add P.D. as reflected above ____None

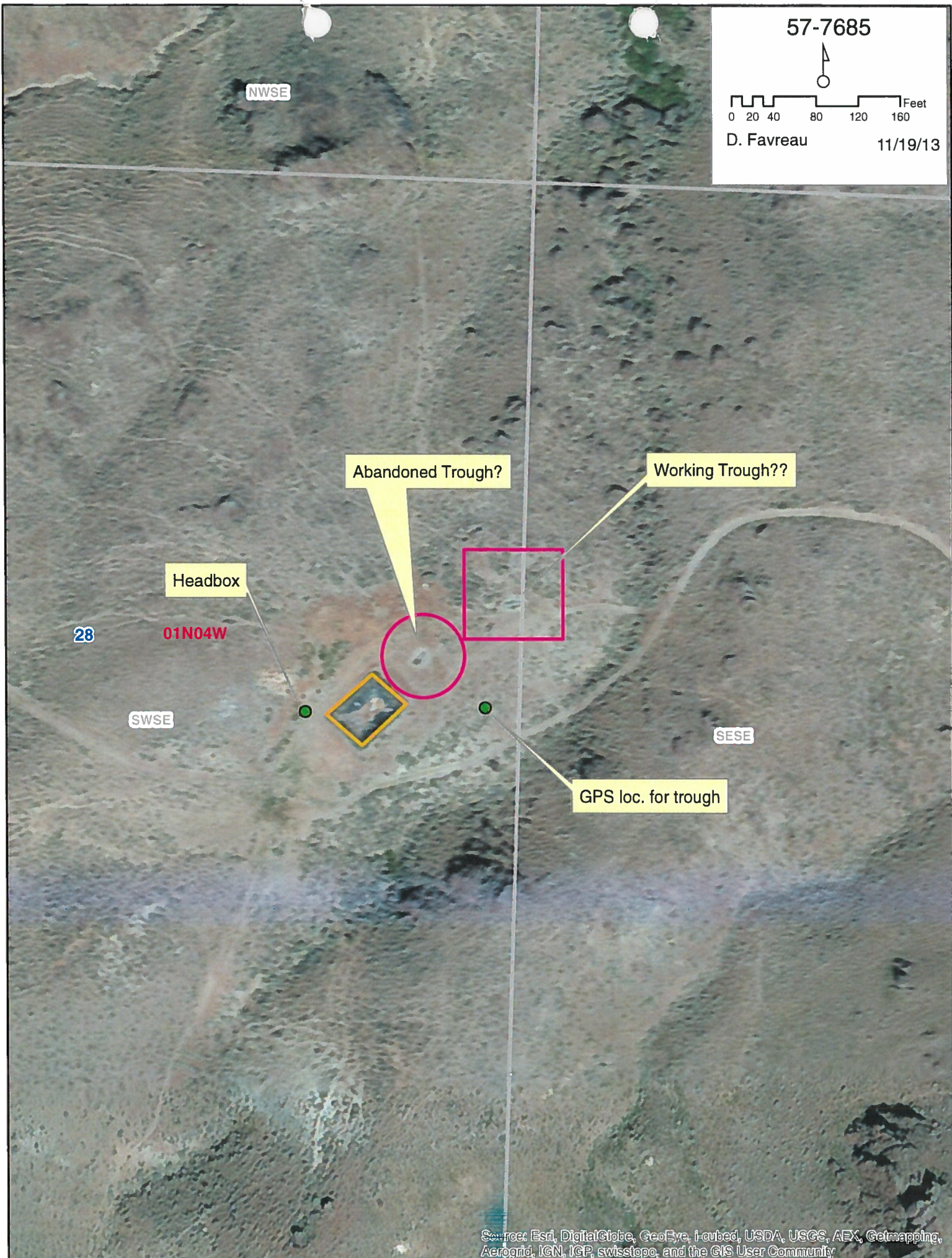
__X__Change P.U. as reflected above ____Add P.U. as reflected above ____None

Other:

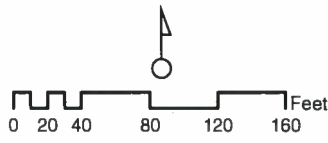
J. AUTHENTICATION

Field Examiner's Name Danille L. Lamm Date 02/01/14

Reviewer _____ Date _____



57-7685



D. Favreau 11/19/13

Abandoned Trough?

Working Trough??

Headbox

28

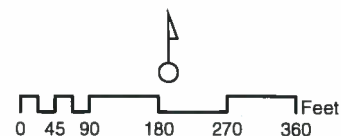
01N04W

SWSE

SESE

GPS loc. for trough

57-7685



D. Favreau

11/19/13

NWSE

NESE

Abandoned Trough?

Working Trough??

28

Headbox

01N04W

SWSE

non-functioning bladder

SESE

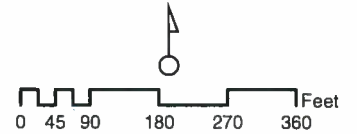
GPS loc. for trough

NWNE

33

NENE

57-7685



D. Favreau

11/19/13

NWSE

NESE

Abandoned Trough?

Working Trough??

28

Headbox

01N04W

SWSE

SESE

non-functioning bladder

GPS loc. for trough

NWNE

33

NENE

Upper Rats Nest Spring (0075)

Water Right # 57-07685

T. 1 n., R. 4 w., Sec. 28

1 Trough

1 Collection Headbox

1 Bladder/Not functional

Upper Tats Nest Spring (0075)
Water Right # 57-07603
T. 1n R. 4w Sec. 28

x
4820.936 N 4804017.591 E Meters

Trough
UTM 514871.736 N 4804030.292 E Meters

Bladder
514837.935 N 4804016.484 E Meters

PACK
Upper Tats Nest
Spring



Upper
Trough



