

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 37-20551

Exam Date: 8/9/2012

1. Current Owner: BLACK BUTTE HILLS LLC
C/O GREGORY VIK
PO BOX 1607
BELLEVUE WA 98009
(425) 460-2542

2. Accompanied by: Ron Gonsales.
Phone No: (208) 764-3904
Relationship to Permit Holder: Manager.
Email: camascreek@hughes.net

3. **SOURCE**

TRIBUTARY

GROUND WATER

B. OVERLAP REVIEW

1. **Other water rights with the same place of use:** The following water rights overlap only at the one stock tank (site #6 on the field examination map for water right 37-20551, Sec. 13 NESE): 37-8781 and 37-8778. Both of these water rights are for stockwater storage and stockwater from Storage.

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

C. DIVERSION AND DELIVERY SYSTEM

1. **LOCATION OF POINT(S) OF DIVERSION:**

GROUND WATER L1 NW1/4NW1/4 Sec. 19, Twp 02S, Rge 16E, B.M. CAMAS County
GROUND WATER L4 SW1/4SW1/4 Sec. 18, Twp 02S, Rge 16E, B.M. CAMAS County

Method of Determination: Garmin GPS Map 76S, ArcMap 2011 and esri Imagery

2.

<u>PLACE OF USE:</u>			STOCKWATER															<u>Totals</u>	
Twp	Rge	Sec	NE				NW				SW				SE				
			<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>	<u>SE</u>	<u>NE</u>	<u>NW</u>	<u>SW</u>		<u>SE</u>
02S	15E	13				X	X	X		X					X				
02S	16E	18											X						
													L 4						

Method of Determination: Garmin GPS Map 76S, ArcMap 2011 and esri Imagery

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 (field exam pictures were lost when computer crashed, and were not able to be retrieved; for this reason close ups of ArcMap 2011 imagery and field exam narrative are used).

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>
A0018554	Franklin Electric	1 Hp	model# 280184915		unknown (30 psi)

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

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>
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None

3. Measurements: None

E. FLOW CALCULATIONS

Measured Method:

At the time of the field examination, there was no way to obtain a physical measurement from the groundwater collector, or from the well. For this reason the following calculations are being used: Pipe conversion for 1 1/2 inch main from the groundwater collector, and from lines off the 2 inch main that convert to 1 1/2 inch poly running to the stock tanks = 0.06 cfs

Theoretical for the well:

$(8.8 \times 1 \text{ Hp} \times 0.7 \text{ eff}) / [17 \text{ ft} + (30 \text{ psi} \times 2.31)] = 0.07 \text{ cfs}$

RECOMMEND:

Stockwater for 1000 head cattle at 0.04 cfs (as permitted)

F. VOLUME CALCULATIONS

1. Volume Calculations for Stockwater:

$\text{Vir} = (1000 \text{ cattle} \times 12 \text{ gpd} \times 365 \text{ days}) / 325,850 = 13.4 \text{ af}$

$\text{Vdr} = 0.04 \text{ cfs} \times 365 \text{ days} \times 1.9835 = 28.9 \text{ af}$

Under the application for permit, they filed under Part A Domestic Exemption ID 42-111 with the Annual Volume = 180 days:

$(1000 \text{ head} \times 12 \text{ gpd} \times 180 \text{ days}) / 325,850 = 6.6 \text{ af}$

2. Volume Calculations for Other Uses: None

RECOMMEND:

6.6 af as permitted (1000 head cattle)

G. NARRATIVE/REMARKS/COMMENTS

Pictures of the system taken at the time of the field examination, were lost when my computer crashed and had to be rebuilt. Pictures from 8/9/2012 were not retrieved. There were some "indicator pictures," that were added to this field exam (dated 9/19/2012) which were taken to determine actual location while conducting another field examination. The pictures that were added to this exam are for water right 37-20551, and demonstrate parts of the system.

There are two PODs: (1) Groundwater source from an Underground Collector, and (2) a well. The Underground Collector is located up on the hill which discharges north, down the hill through a 1 1/2 inch buried poly pipe to the well, which is located at the bottom of the hill. Overflow from the Underground Collector discharges to a pond located to the west. The 6 inch well (ID Tag A0018554), which extends 18 inches above ground level, has a Franklin electric 1 Hp submersible pump, model 2801084915, with unknown discharge size, converts to (3) 2 inch buried poly mains that reduce to 1 1/2 inch poly going to each of the troughs/stockwater tanks. System runs at 30 psi.

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>
STOCKWATER	01/01 to 12/31	0.040 CFS	6.60 AF
	<u>Totals:</u>	0.040 CFS	6.60 AF

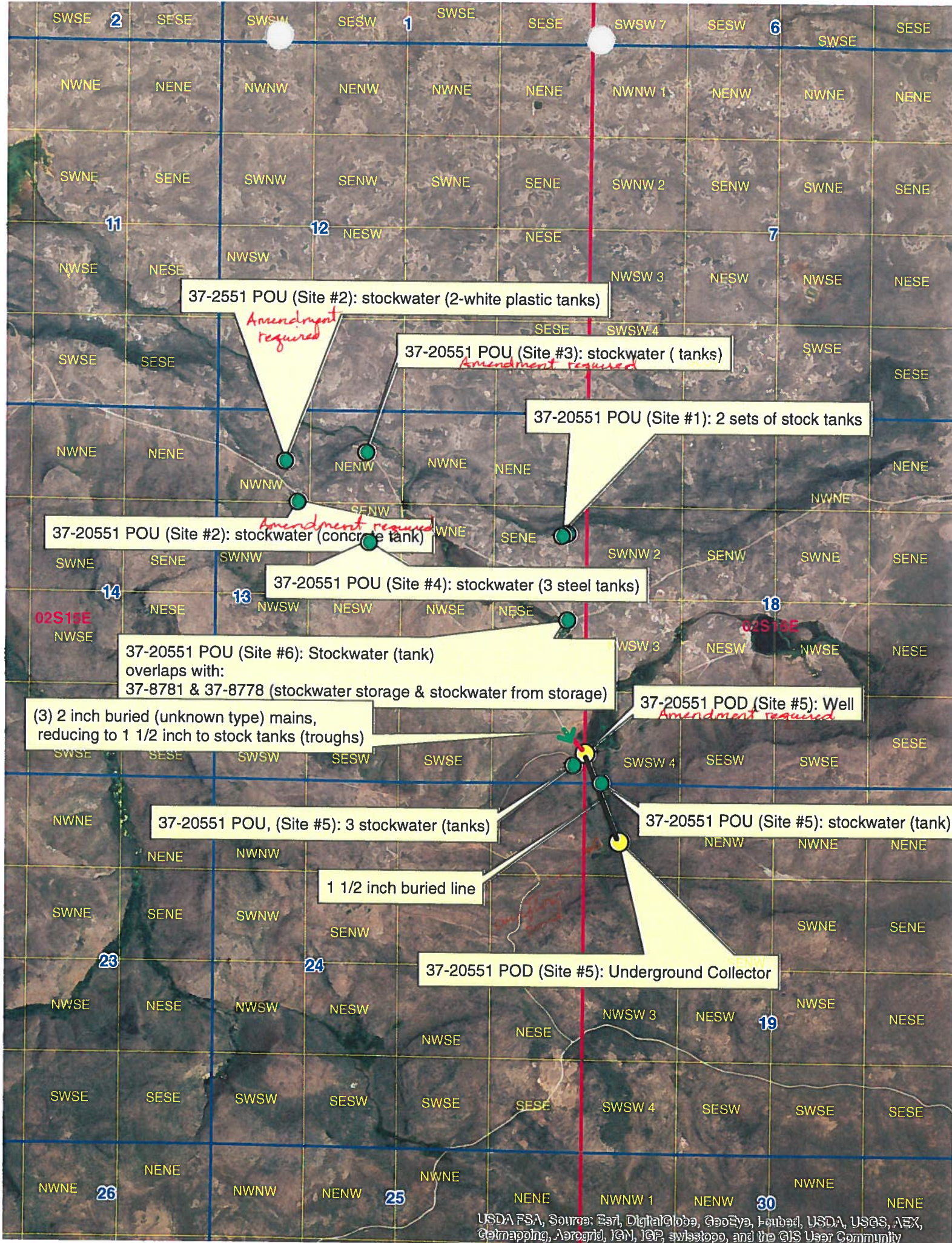
2. Recommended Amendments

☒ 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

Sandy Hemenway Date 2/10/2014



37-2551 POU (Site #2): stockwater (2-white plastic tanks)

Amendment required

37-20551 POU (Site #3): stockwater (tanks)

Amendment required

37-20551 POU (Site #1): 2 sets of stock tanks

37-20551 POU (Site #2): stockwater (concrete tank)

Amendment required

37-20551 POU (Site #4): stockwater (3 steel tanks)

37-20551 POU (Site #6): Stockwater (tank)
overlaps with:
37-8781 & 37-8778 (stockwater storage & stockwater from storage)

(3) 2 inch buried (unknown type) mains,
reducing to 1 1/2 inch to stock tanks (troughs)

37-20551 POD (Site #5): Well

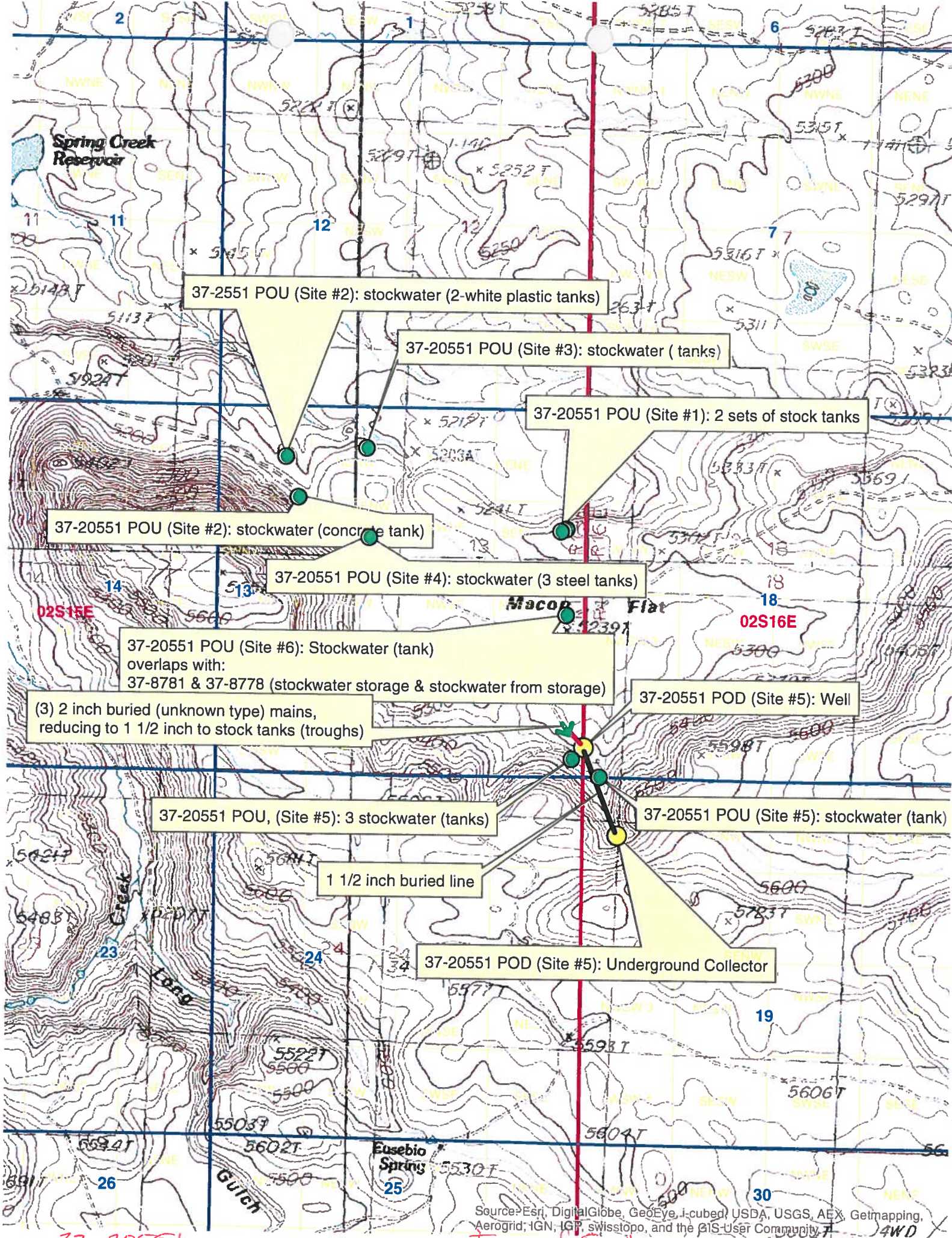
Amendment required

37-20551 POU, (Site #5): 3 stockwater (tanks)

37-20551 POU (Site #5): stockwater (tank)

1 1/2 inch buried line

37-20551 POD (Site #5): Underground Collector



37-2551 POU (Site #2): stockwater (2-white plastic tanks)

37-20551 POU (Site #3): stockwater (tanks)

37-20551 POU (Site #1): 2 sets of stock tanks

37-20551 POU (Site #2): stockwater (concrete tank)

37-20551 POU (Site #4): stockwater (3 steel tanks)

37-20551 POU (Site #6): Stockwater (tank)
overlaps with:
37-8781 & 37-8778 (stockwater storage & stockwater from storage)

(3) 2 inch buried (unknown type) mains,
reducing to 1 1/2 inch to stock tanks (troughs)

37-20551 POD (Site #5): Well

37-20551 POU, (Site #5): 3 stockwater (tanks)

37-20551 POU (Site #5): stockwater (tank)

1 1/2 inch buried line

37-20551 POD (Site #5): Underground Collector

37-20551

Top at Site

20551

4WD

An aerial photograph of a landscape, likely a field or forest, with a yellow label pointing to a specific site. The label is located in the upper right quadrant of the image. The landscape is mostly green and brown, with some lighter patches. A thin black line runs vertically through the center of the image. Two white circular marks are visible at the top of the image.

37-20551, Site #1: POU (stock tanks) 1:600

SENE

13

02S15E

37-20551, Site #2 POU: Stockwater (2 white plastic tanks)

NWNW

NENW

13

02S15E

37-20551, Site #2 POU: Stockwater (concrete tank)

SWNW

SENW

SESW

12

SWSE

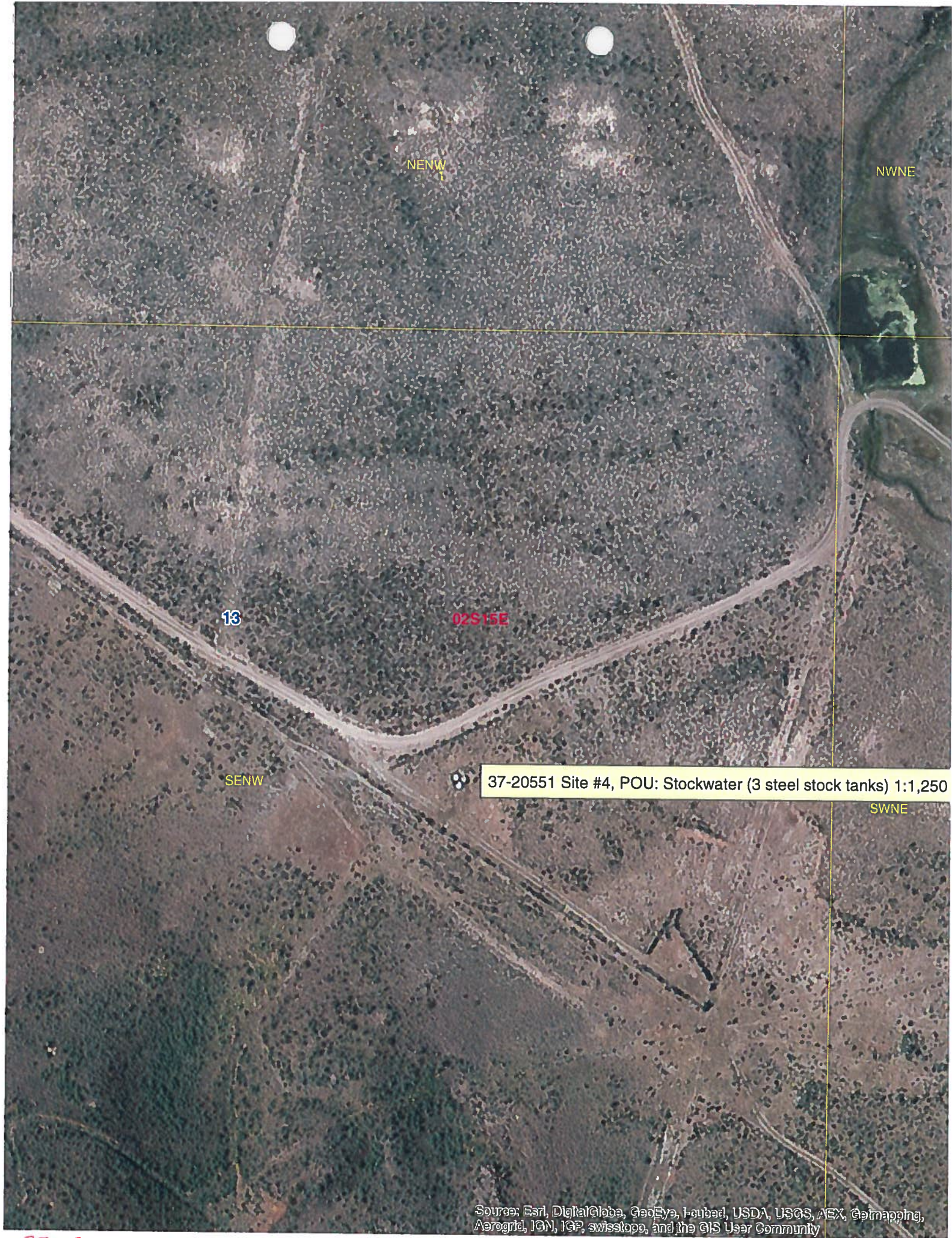
02S15E

NENW

13

37-20551, Site #3 POU: Stockwater (tanks) 1:1,233

NWNE



NENW

NWNE

13

02S15E

SENW

SWNE

37-20551 Site #4, POU: Stockwater (3 steel stock tanks) 1:1,250

NESE

NWSW 3

NESW

13

SESE

18

SWSW 4

SESW

37-20551 Site #5 POD: Well/Pump House

37-20551 Site #5 POU: Stockwater (3 tanks)

37-20551 Site #5 POU: Stockwater (tank)

02S15E

02S16E

NENE

NWNW 1

NENW

37-20551 Site #5, POD/Underground Collector

24

19

1:3,000

SENE

SWNW 2

SENW

SESE

13

02S15E

37-20551 Site #5 POU: Stockwater (3 tanks)

1:1,000

NENE

24

37-20551 Site #5 POD: Well/Pump House

SWSW 4

18

02S16E

37-20551 Site #5 POU: Stockwater (tank)

NWNW 1

19

An aerial photograph of a forested area. A callout line points from a text box to a specific location in the forest. The text box contains the label '37-20551 Site #5, POD/Underground Collector'. Other labels on the map include 'NWNW 1', '19', and '02S16E'. A scale bar indicates '1:600'.

37-20551 Site #5, POD/Underground Collector

NWNW 1

19

02S16E

1:600



37-20551, Site #6 POU: Stockwater (tank) 1:1,250
Overlaps with water rights:
37-8781 & 37-8778 Stockwater storage & stockwater from:

stockwater

09/19/2012



37-20551

Indicates pictures of another field exam
to determine actual location, but this is
not the site #? see 37-20551 (2 shrub to the left)

S. Hemminger
Sec. 13 NW 1/4

09/19/2012



37-2055-1

Indicates picture for another field exam
to determine location, but this is also
- at 37-2055-1

S. Hemmings
Sec. 13 NW 1/4

09/19/2012



SENW Sec 13

Site #4

Si. Hemenway

37-20551 Induction picture from another field exam to distance

37-20551

S. Hemerway

37-20551
POD: Underground
collector

37-20551
POD: W
location

pump
house

This picture was only taken a
picture for another field exam to determine
the location of the site #5

37-20551

09/19/2012

Indicate picture for another field exam
to determine location. The area marked at
the location then will determine location
S. Hemerway

