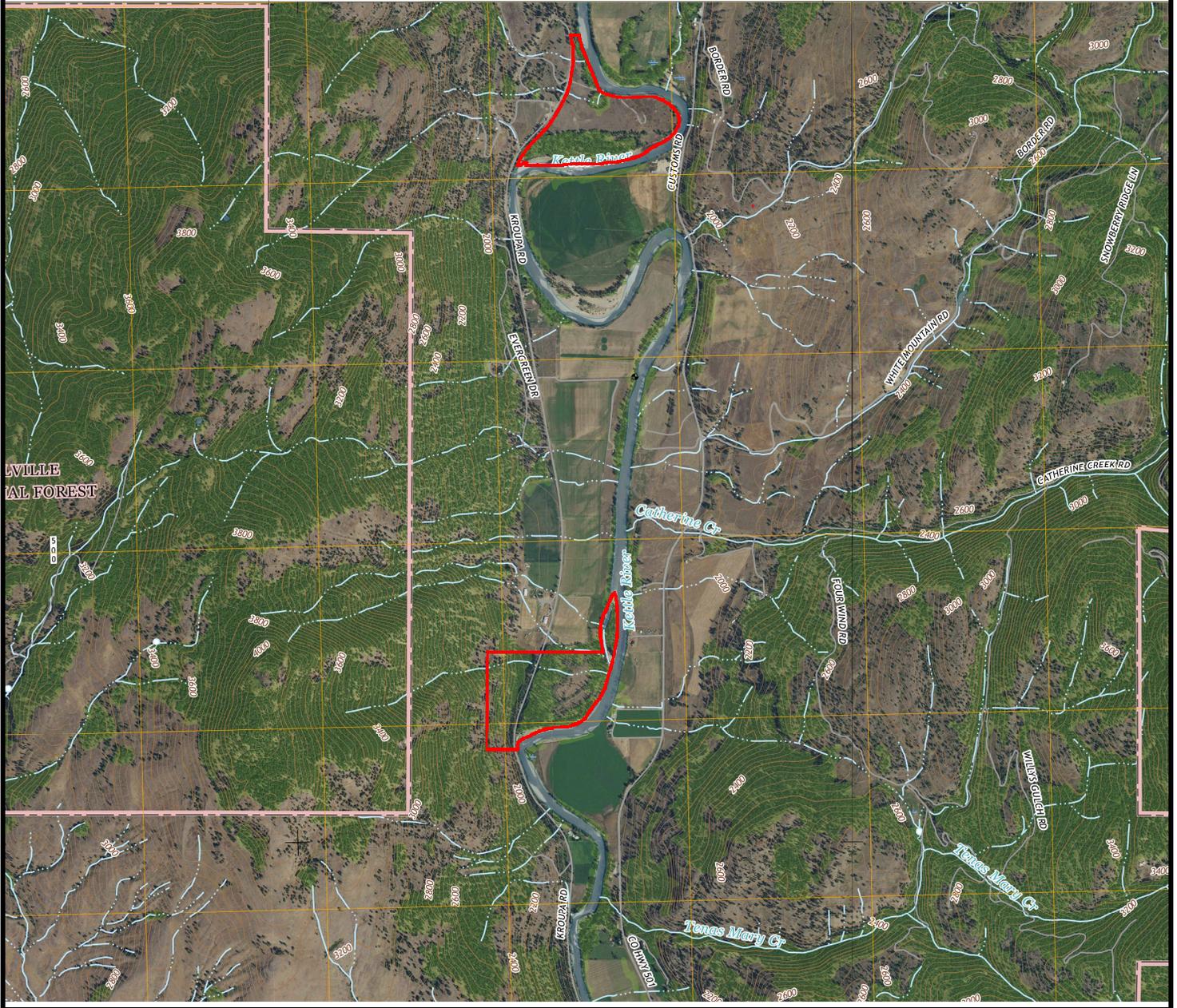


Appendix 10.5

Historical Research Documentation



368 47'30" 370 371 2 140 000 FEET 118°45' 373 000m E



Historical Topographic Map
2017

Curlew
Ferry County, WA

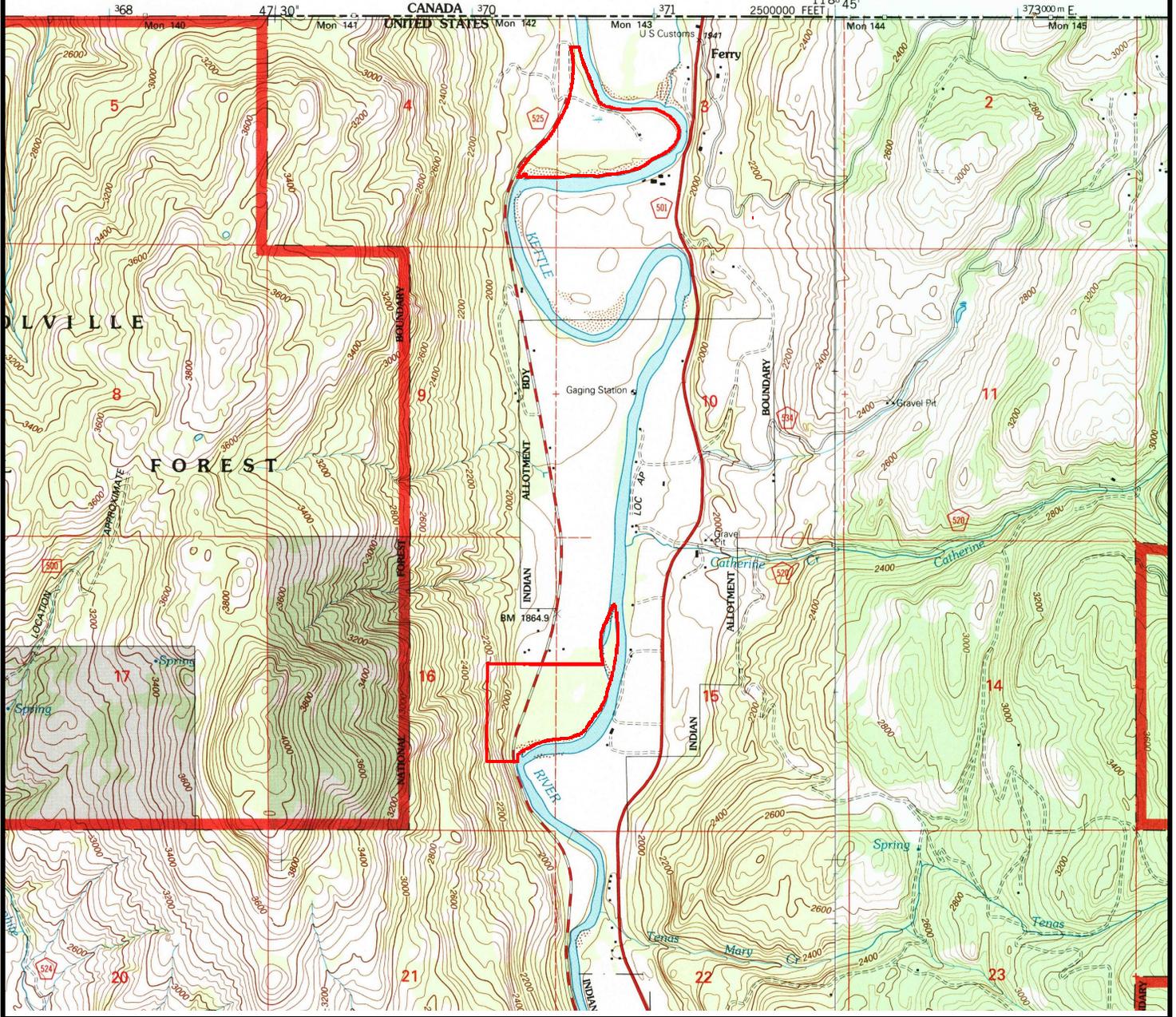


Target Site: 48.979491, -118.769714 Job #: 2104692868

STATES
OF AGRICULTURE
SERVICE

118° 45'

7.5



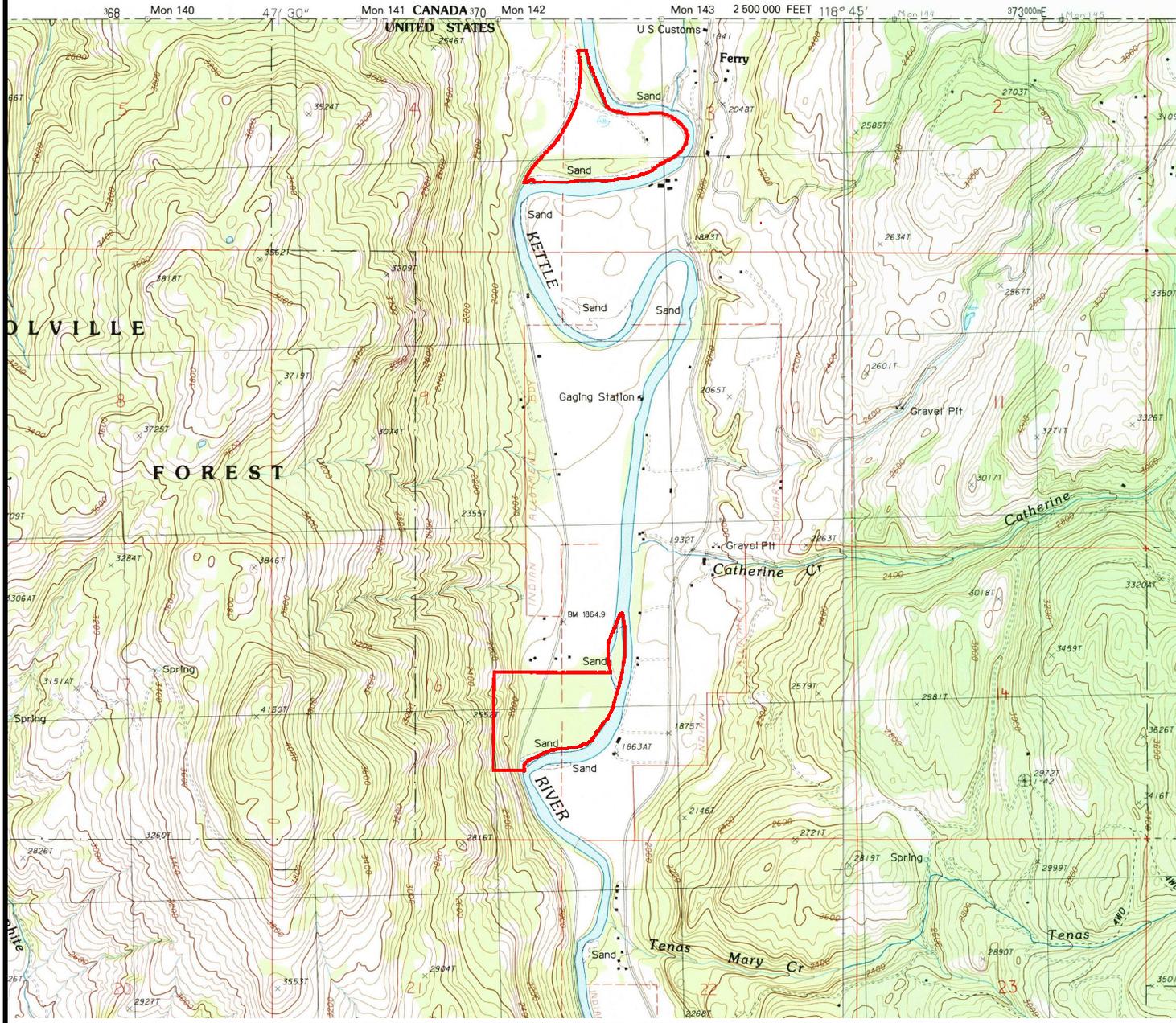
Historical Topographic Map
1996

Curlew
Ferry County, WA



Target Site: 48.979491, -118.769714 Job #: 2104692868

TORODA QUADR/
WASHINGTON
7.5 MINUTE SERIES (TO



Historical Topographic Map
1988

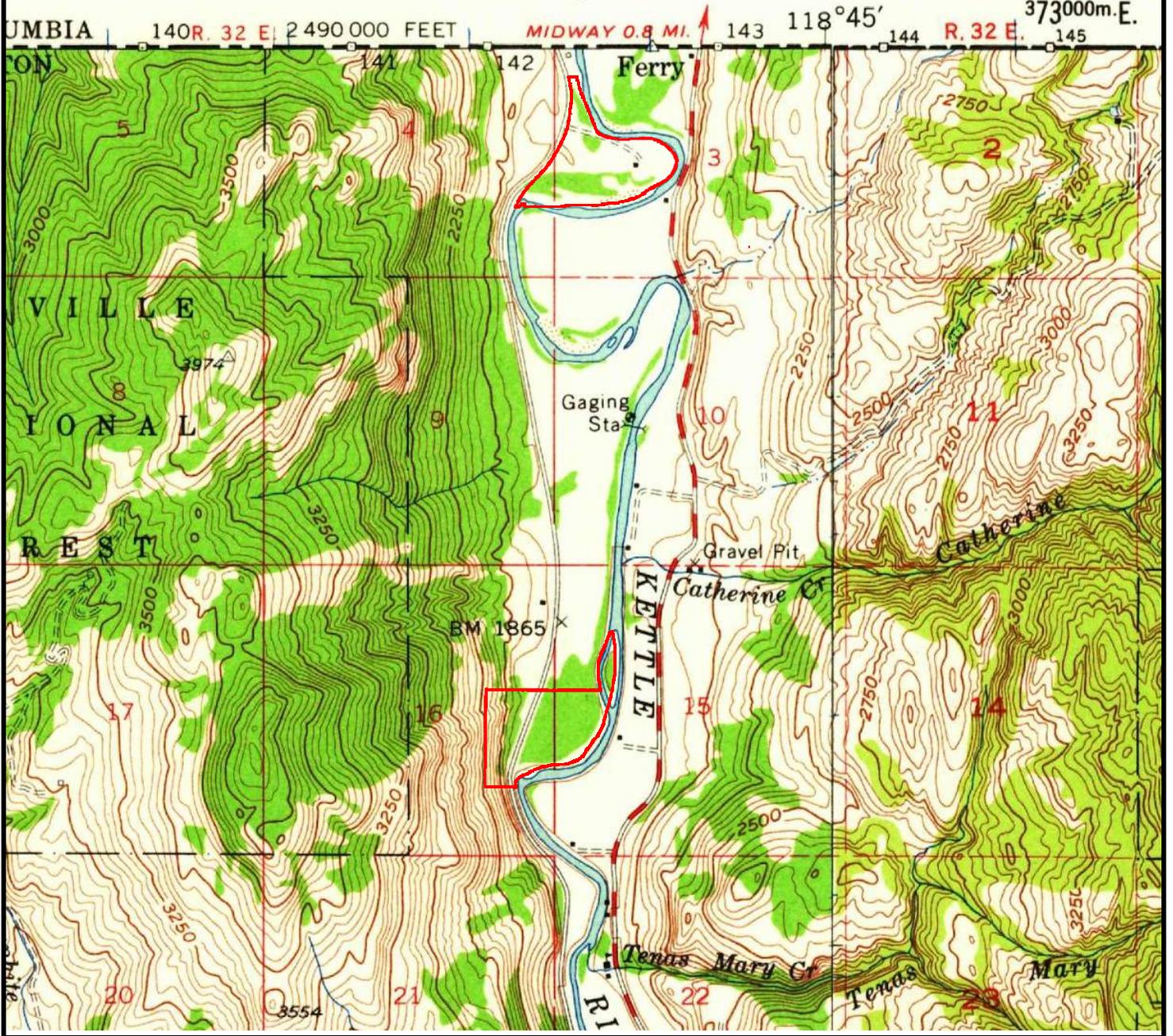
Curlew
Ferry County, WA



Target Site: 48.979491, -118.769714 Job #: 2104692868

BODIE MTN. QUADRANGLE
WASHINGTON
15 MINUTE SERIES (TOPOGRAPHIC)

UNIT
DEPARTMENT
GEOLOG



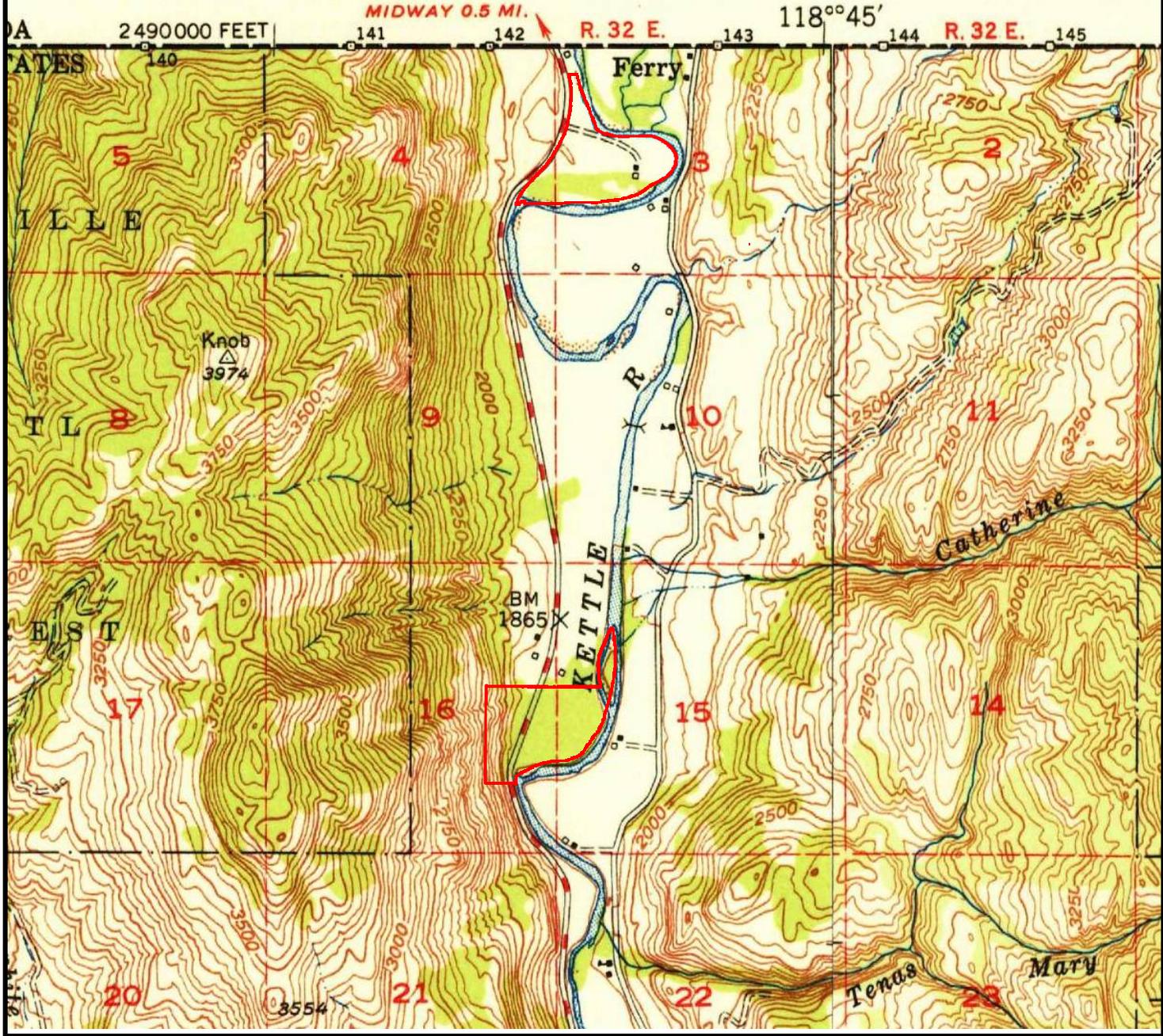
Historical Topographic Map
1961 (West), 1957 (East)

**Curlew
Ferry County, WA**



Target Site: 48.979491, -118.769714 Job #: 2104692868

BODIE MOUNTAIN QUADRANGLE UNIT
WASHINGTON DEPARTMENT OF GEOLOGY
15 MINUTE SERIES (TOPOGRAPHIC)



Historical Topographic Map
1951



Curlew
Ferry County, WA

Target Site: 48.979491, -118.769714 Job #: 2104692868



FERRY COUNTY
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Rachel D. Siracuse
Ferry County Assessor 350 E Delaware Ave. Stop 1 Republic, WA 99166

[Assessor](#) [Treasurer](#) [Appraisal](#) [MapSifter](#)

Parcel

Parcel#: 24004110004002 **Owner Name:** KROUPA, CHRIS & NICOLE J
DOR Code: 83 - Resource - Agriculture Current Use **Address1:**
Situs: 394 KROUPA RD, CURLEW 99118 **Address2:** 99 TORODA CRK
Map Number: 32-40-04 **City, State:** CURLEW WA
Status: **Zip:** 99118
Description: UNSRVYD TRACT 4: KROUPA SURVEY #225705 (PT GLS6 & 14:SEC 3 & PT GL5: SEC 4)
Comment:

2018 Market Value		2018 Taxable Value		2018 Assessment Data	
Land:	\$250,500	Land:	\$15,100	District:	6 -
Improvements:	\$0	Improvements:	\$0	Current Use/DFL:	Yes
Permanent Crop:	\$0	Permanent Crop:	\$0	Senior/Disability Exemption:	No
Total	\$250,500	Total	\$15,100	Total Acres:	50.48000

Ownership

Owner's Name	Ownership %
KROUPA, CHRIS & NICOLE J	100 %

Sales History

Sale Date	Sales Document	# Parcels	Excise #	Grantor	Grantee	Price
03/10/80	QCD 184967	1	19109	KROUPA, THOMAS F & DOLORES	KROUPA, CHRIS A & JULIE A	\$3,100

Building Permits

No Building Permits Available

Historical Valuation Info

Year	Billed Owner	Land	Impr.	PermCrop Value	Total	Exempt	Taxable
2018	KROUPA, CHRIS & NICOLE J	\$250,500	\$0	\$0	\$250,500	\$0	\$15,100
2017	KROUPA, CHRIS & NICOLE J	\$250,500	\$0	\$0	\$250,500	\$0	\$15,100
2016	KROUPA, CHRIS & NICOLE J	\$250,500	\$0	\$0	\$250,500	\$0	\$15,100
2015	KROUPA, CHRIS & NICOLE J	\$275,400	\$0	\$0	\$275,400	\$0	\$15,100
2014	KROUPA, CHRIS & NICOLE J	\$275,400	\$0	\$0	\$275,400	\$0	\$15,100

[View Taxes](#)

Parcel Comments

No Comments Available

Property Images

Click on an image to enlarge it.



1.0.6103.28469

Data current as of: 1/19/2018 3:51 PM

TX_RollYear_Search: 2018



FERRY COUNTY WASHINGTON



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Rachel D. Siracuse
Ferry County Assessor 350 E Delaware Ave. Stop 1 Republic, WA 99166

[Assessor](#) [Treasurer](#) [Appraisal](#) [MapSifter](#)

Parcel

Parcel#: 24015220004002 **Owner Name:** KROUPA, CHRIS A
DOR Code: 83 - Resource - Agriculture Current Use **Address1:**
Situs: **Address2:** 99 TORODA CRK
Map Number: 32-40-15 **City, State:** CURLEW WA
Status: **Zip:** 99118
Description: TAX#10 & #11 (PTS GL3):
Comment: FERRY COUNTY LTRS TEST 074000144: 6/11/2007: DELORES V KROUPA ESTATE: APTD CHRIS A KROUPA ESTATE PR:

2018 Market Value		2018 Taxable Value		2018 Assessment Data	
Land:	\$186,500	Land:	\$600	District:	6 -
Improvements:	\$0	Improvements:	\$0	Current Use/DFL:	Yes
Permanent Crop:	\$0	Permanent Crop:	\$0	Senior/Disability Exemption:	No
Total	\$186,500	Total	\$600	Total Acres:	29.60000

Ownership

Owner's Name	Ownership %
KROUPA, CHRIS A	100 %

Sales History

Sale Date	Sales Document	# Parcels	Excise #	Grantor	Grantee	Price
02/07/08	PRD-270969	7	2008054	KROUPA, DOLORES V	KROUPA, CHRIS A	\$0

Building Permits

No Building Permits Available

Historical Valuation Info

Year	Billed Owner	Land	Impr.	PermCrop Value	Total	Exempt	Taxable
2018	KROUPA, CHRIS A	\$186,500	\$0	\$0	\$186,500	\$0	\$600
2017	KROUPA, CHRIS A	\$186,500	\$0	\$0	\$186,500	\$0	\$600
2016	KROUPA, CHRIS A	\$186,500	\$0	\$0	\$186,500	\$0	\$600
2015	KROUPA, CHRIS A	\$207,200	\$0	\$0	\$207,200	\$0	\$600
2014	KROUPA, CHRIS A	\$207,200	\$0	\$0	\$207,200	\$0	\$600

[View Taxes](#)

Parcel Comments

Date	Comment
02/11/08	FERRY COUNTY LTRS TEST 074000144: 6/11/2007: DELORES V KROUPA ESTATE: APTD CHRIS A KROUPA ESTATE PR:

Property Images

No images found.

1.0.6103.28469

Data current as of: 1/19/2018 3:51 PM

TX_RollYear_Search: 2018



FERRY COUNTY WASHINGTON



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[PAYMENT CART\(0\)](#)

Rachel D. Siracuse
Ferry County Assessor 350 E Delaware Ave. Stop 1 Republic, WA 99166

[Assessor](#) [Treasurer](#) [Appraisal](#) [MapSifter](#)

Parcel

Parcel#: 24016140001002 **Owner Name:** KROUPA, CHRIS A
DOR Code: 83 - Resource - Agriculture Current Use **Address1:**
Situs: **Address2:** 99 TORODA CRK
Map Number: 32-40-16 **City, State:** CURLEW WA
Status: **Zip:** 99118
Description: GOVT LOT 1: TAX#2 (PT SE4 NE4):
Comment: FERRY COUNTY LTRS TEST 074000144: 6/11/2007: DELORES V KROUPA ESTATE: APTD CHRIS A KROUPA ESTATE PR:

2018 Market Value		2018 Taxable Value		2018 Assessment Data	
Land:	\$152,900	Land:	\$700	District:	6 -
Improvements:	\$0	Improvements:	\$0	Current Use/DFL:	Yes
Permanent Crop:	\$0	Permanent Crop:	\$0	Senior/Disability Exemption:	No
Total	\$152,900	Total	\$700	Total Acres:	34.75000

Ownership

Owner's Name	Ownership %
KROUPA, CHRIS A	100 %

Sales History

Sale Date	Sales Document	# Parcels	Excise #	Grantor	Grantee	Price
02/07/08	PRD-270969	7	2008054	KROUPA, DOLORES V	KROUPA, CHRIS A	\$0

Building Permits

No Building Permits Available

Historical Valuation Info

Year	Billed Owner	Land	Impr.	PermCrop Value	Total	Exempt	Taxable
2018	KROUPA, CHRIS A	\$152,900	\$0	\$0	\$152,900	\$0	\$700
2017	KROUPA, CHRIS A	\$154,700	\$0	\$0	\$154,700	\$0	\$700
2016	KROUPA, CHRIS A	\$153,800	\$0	\$0	\$153,800	\$0	\$700
2015	KROUPA, CHRIS A	\$168,600	\$0	\$0	\$168,600	\$0	\$700
2014	KROUPA, CHRIS A	\$168,600	\$0	\$0	\$168,600	\$0	\$700

[View Taxes](#)

Parcel Comments

Date	Comment
02/11/08	FERRY COUNTY LTRS TEST 074000144: 6/11/2007: DELORES V KROUPA ESTATE: APTD CHRIS A KROUPA ESTATE PR:

Property Images

No images found.

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Data current as of: 1/19/2018 3:51 PM

TX_RollYear_Search: 2018

North Ferry Area, Washington

BmD—Bisbee loamy fine sand, 0 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2bwg

Elevation: 1,400 to 3,400 feet

Mean annual precipitation: 15 to 20 inches

Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 100 to 130 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Bisbee and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Bisbee

Setting

Landform: Terraces

Parent material: Sandy glacial outwash reworked by wind

Typical profile

H1 - 0 to 4 inches: loamy fine sand

H2 - 4 to 28 inches: loamy fine sand

H3 - 28 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 25 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High
(1.98 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 5.1 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Other vegetative classification: ponderosa pine-Douglas-fir/
bluebunch wheatgrass (CDG311)

Hydric soil rating: No

Data Source Information

Soil Survey Area: North Ferry Area, Washington

Survey Area Data: Version 14, Sep 5, 2017

North Ferry Area, Washington

DaB—Dart coarse sandy loam, 0 to 5 percent slopes

Map Unit Setting

National map unit symbol: 2bwv

Elevation: 1,400 to 2,800 feet

Mean annual precipitation: 15 to 20 inches

Mean annual air temperature: 45 to 48 degrees F

Frost-free period: 100 to 130 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Dart and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dart

Setting

Landform: Terraces

Parent material: Sandy alluvium

Typical profile

H1 - 0 to 6 inches: coarse sandy loam

H2 - 6 to 19 inches: coarse sandy loam

H3 - 19 to 60 inches: sand

Properties and qualities

Slope: 0 to 5 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: A

Other vegetative classification: ponderosa pine-Douglas-fir/
bluebunch wheatgrass (CDG311)

Hydric soil rating: No

Data Source Information

Soil Survey Area: North Ferry Area, Washington

Survey Area Data: Version 14, Sep 5, 2017

North Ferry Area, Washington

DrE—Donovan-Rock land-Nevine complex, 15 to 50 percent slopes

Map Unit Setting

National map unit symbol: 2bx2
Elevation: 1,800 to 4,000 feet
Mean annual precipitation: 14 to 40 inches
Mean annual air temperature: 43 to 48 degrees F
Frost-free period: 80 to 120 days
Farmland classification: Not prime farmland

Map Unit Composition

Donavan and similar soils: 40 percent
Rock land: 30 percent
Nevine and similar soils: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Donovan

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Parent material: Volcanic ash over glacial till

Typical profile

H1 - 0 to 7 inches: stony ashy loam
H2 - 7 to 28 inches: ashy loam
H3 - 28 to 60 inches: gravelly loam
H4 - 60 to 70 inches: gravelly sandy loam

Properties and qualities

Slope: 15 to 40 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high to high (0.57 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Other vegetative classification: ponderosa pine-Douglas-fir/
bluebunch wheatgrass (CDG311)
Hydric soil rating: No

Description of Rock Land

Properties and qualities

Slope: 15 to 50 percent

Depth to restrictive feature: 0 inches to lithic bedrock

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Nevine

Setting

Landform: Hills

Landform position (two-dimensional): Backslope

Landform position (three-dimensional): Side slope

Parent material: Volcanic ash over dense till

Typical profile

H1 - 0 to 6 inches: stony ashy loam

H2 - 6 to 17 inches: ashy loam

H3 - 17 to 32 inches: very gravelly sandy loam

H4 - 32 to 50 inches: very gravelly sandy loam

H5 - 50 to 60 inches: very gravelly sandy loam

Properties and qualities

Slope: 15 to 45 percent

Depth to restrictive feature: 20 to 40 inches to densic material

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water storage in profile: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Other vegetative classification: Douglas-fir/ninebark (CDS715)

Hydric soil rating: No

Data Source Information

Soil Survey Area: North Ferry Area, Washington

Survey Area Data: Version 14, Sep 5, 2017