Cliff Features



Rock Outcrop Features



Looking North

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Length: 60 ft Height: 5 ft

LOCATION: Township: 8S Range: 39E Section: 23

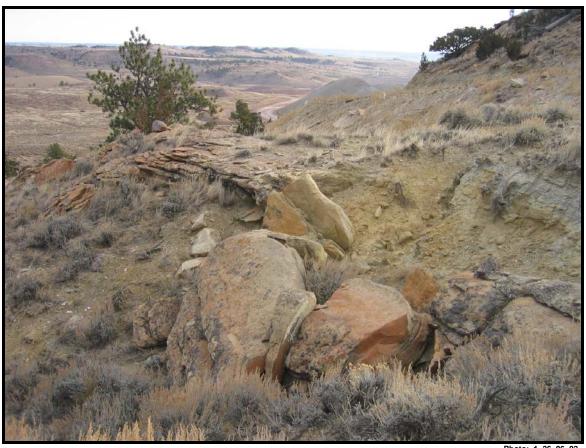
HANDHELD GPS POINTS: Northing **Easting**

14001 418224.19 2664095.91 **14002** 418279.60 2664117.37

SUBSTRATE: Sandstone/siltstone **EXPOSURE:** Southern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above consists of layered

sandstone/siltstone rocks that are located at the top of a small southern facing hill. This feature has a long, narrow geometry.



Looking Northeast

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Length: 60 ft Width: 15 ft

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing **Easting**

14003 418435.63 2664205.34 **14004** 418470.08 2664255.88

SUBSTRATE: Sandstone/siltstone **EXPOSURE:** Northern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above overlooks a small draw,

which is a tributary to Spring Creek. The feature sits on highly erosive, sandy silt material and the layout of the rocks creates

potential habitat. The rocks within this feature vary in size.



Looking East

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Area of outcrop: 0.09 acres

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting **Northing** Easting

14005 418609.55 2664055.12 **14007** 418572.28 2664144.13 **14006** 418628.84 2664088.07 **14008** 418521.10 2664140.61

SUBSTRATE: Sandstone/siltstone **EXPOSURE:** Northern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above sits on highly erosive,

sandy silt material and voids are present between the rocks. Most of these rocks are flat and approximately 2 feet in thickness. In one area this outcrop intersects a small draw.



Photo: 1_26_06_04

Looking West

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Area of outcrop: 1.08 acres

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting Northing Easting

14009 418926.16 2663918.40 **14011** 419170.97 2663817.57 **14010** 418995.23 2663797.38 **14012** 419068.60 2664151.42

SUBSTRATE: Sandstone/siltstone

EXPOSURE: Northern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above sits on highly erosive,

sandy silt material. Throughout the outcrop area, the rocks vary from small, flat, sandstone/siltstone rocks to large, layered, sandstone/siltstone rocks. See the picture on the next page for

another view of the rocks in this outcrop.



Photo: 1 26 06 05

Looking South



Looking West

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Area of outcrop: 0.12 acres

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting **Northing** Easting

2663706.30 **14014** 419510.20 2663817.00 **14016** 419499.35 **14015** 419557.07 2663800.00 **14017** 419456.20 2663725.77

SUBSTRATE: Sandstone/siltstone **EXPOSURE:** Northern facing slope

DESCRIPTION OF FEATURE: The type of rock outcrop shown above is very common in this

area. The layered sandstone/siltstone rocks are stacked over the area, leaving voids beneath and between the rocks. The

subsoil consists of sandy silt.



Looking East

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Length: 70 ft Width: 20 ft

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing **Easting**

14110 420872.14 2663858.48 **14111** 420874.45 2663930.71

SUBSTRATE: Scoria

EXPOSURE: Northern facing slope

DESCRIPTION OF FEATURE: Scoria outcrops like the one shown above appear in many areas

across the mine. This feature is located at the top of a small, tree covered hill. The rocks in this outcrop are small and

covered with lichens.



Looking Northeast

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Length: 115 ft Height: 10 ft

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing **Easting**

14112 420587.58 2665107.17 **14113** 420631.15 2665214.23

SUBSTRATE: Sandstone/siltstone **EXPOSURE:** Northern facing slope

DESCRIPTION OF FEATURE: The sandstone/siltstone rock outcrop shown above is weathered

and eroded. It is located on a sandy silt subsoil and has overhangs and areas where holes have been dug below the

rock.



Looking Southeast

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Area of outcrop: 0.14 acres

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting Northing **Easting**

2665338.76 **14116** 420504.37 2665582.43 **14114** 420452.76

14115 420538.24 2665501.29

SUBSTRATE: Sandstone/siltstone **EXPOSURE:** Northern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above is located in an area

vegetated with small trees, grass and sagebrush. sandstone/siltstone rocks within the feature have the same

characteristics as many outcrops in this area.



Looking Southeast

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Area of outcrop: 0.02 acres

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting Northing Easting

2665621.26 **14117** 420063.78 2665606.95 **14119** 420020.47

14118 420036.46 2665664.64

SUBSTRATE: Scoria

EXPOSURE: Northern facing slope

DESCRIPTION OF FEATURE: This small rock outcrop is located in an area vegetated with

small trees, grass and sagebrush. Scoria outcrops, like the one shown above, appear in many areas across the mine. This feature is located at the top of a small, tree covered hill. The

rocks in this outcrop are small and covered with lichens.



Photo: 1_26_06_51

Looking East

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Length: 45 ft Height: 15 ft

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting

14121 419975.15 2667159.30 **14122** 419935.57 2667176.07

SUBSTRATE: Sandstone/siltstone

EXPOSURE: Northern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above is located in an area

vegetated with small trees, grass and sagebrush. The layered sandstone/siltstone outcrop creates areas of habitat. It was noted in the field that there were holes and areas of current

habitat within this outcrop.



Photo: 2_1_06_23

Looking Northwest

FEATURE TYPE: Rock Outcrop

GEOMETRIC DIMENSIONS: Area of outcrop: 0.11 acres

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing Easting Northing Easting

 16054
 420993.07
 2668634.55
 16056
 421055.06
 2668407.88

 16055
 420982.39
 2668642.64
 16057
 421022.09
 2668403.78

SUBSTRATE: Sandstone/siltstone

EXPOSURE: Southern facing slope

DESCRIPTION OF FEATURE: The small rock outcrop shown above is located at the top of a

small, sandy silt hill overlooking the Spring Creek channel bottom. The large, flat, layered rocks have voids between and

below.

Riparian Areas

Section 17.24.313 Addendum D

RIPARIAN FEATURE: R_0047



Looking East

FEATURE TYPE: Riparian Area

GEOMETRIC DIMENSIONS: See attached topographic map

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing **Easting**

14013 419164.92 2664424.67

SUBSTRATE: Not applicable

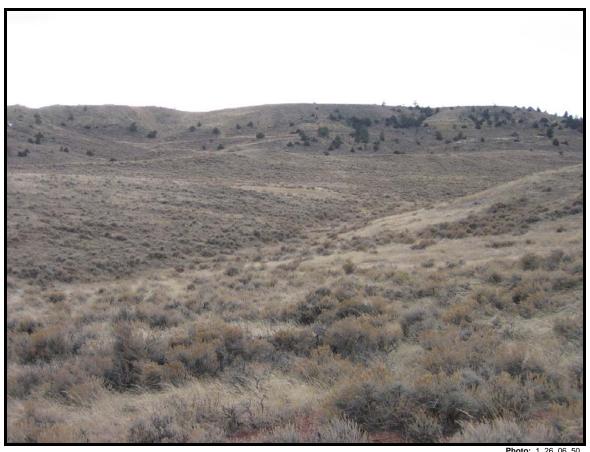
EXPOSURE: Drainage runs in an easterly direction

DESCRIPTION OF FEATURE: This draw is a tributary to Spring Creek. The picture above looks

downstream and shows geometry of the channel. The channel

bottom is vegetated with grass and sagebrush.

RIPARIAN FEATURE: R_0052



Looking East

FEATURE TYPE: Riparian Area

GEOMETRIC DIMENSIONS: See attached topographic map

LOCATION: Township: 8S Range: 39E Section: 23

HANDHELD GPS POINTS: Northing **Easting**

14120 419503.36 2665761.87

SUBSTRATE: Not applicable

EXPOSURE: Drainage runs in an easterly direction

DESCRIPTION OF FEATURE: This draw is a tributary to Spring Creek. The picture above looks

upstream and shows geometry of the channel. The channel bottom is vegetated with grass and sagebrush. This drainage

runs parallel to R_0047.

Other Features

