FEATURE TYPE: CLINKER OUTCROPS
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4
PHOTOPOINT GPS NO: 1001
SUBSTRATE: SCORIA
EXPOSURE: VARIOUS
DESCRIPTION: FIRST OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE WEST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1002

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: SECOND OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE SOUTHWEST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1003

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: THIRD OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE SOUTH
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1004

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: FOURTH OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE SOUTHEAST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1005

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: FIFTH OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE EAST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1006

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: SIXTH OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE NORTHEAST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1007

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: SEVENTH OF 7 PANORAMIC VIEWS OF SCORIA OUTCROPS; VIEW TO THE NORTH
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1008

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: VIEW TO NORTHWEST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1009

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: VIEW TO SOUTHEAST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1010

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: FIRST OF FOUR PANORAMIC VIEWS; VIEW TO NORTHWEST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1011

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: SECOND OF FOUR PANORAMIC VIEWS; VIEW TO WEST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1012

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: THIRD OF FOUR PANORAMIC VIEWS; VIEW TO SOUTHWEST
FEATURE TYPE: CLINKER OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NW 1/4

PHOTOPOINT GPS NO: 1013

SUBSTRATE: SCORIA

EXPOSURE: VARIOUS

DESCRIPTION: FOURTH OF FOUR PANORAMIC VIEWS; VIEW TO SOUTH
FEATURE TYPE: STEEP BANKED COULEE WITH SOME RIM OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; NE 1/4

PHOTOPOINT GPS NO: 1014

SUBSTRATE: SANDSTONE AND SHALE

EXPOSURE: NORTH

DESCRIPTION: TRIBUTARY COULEE TO THREE MILE CREEK; UPPER END LOOKING DOWNSTREAM
FEATURE TYPE: SANDSTONE OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1015

SUBSTRATE: SANDSTONE

EXPOSURE: WEST

DESCRIPTION: RIDGE WITH OUTCROPS ALONG THE EAST SECTION LINE
FEATURE TYPE: ERODED COULEE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1016

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 1 LOOKING DOWNSTREAM TO WEST
FEATURE TYPE: ERODED COULEE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1017

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 1 LOOKING UPSTREAM TO EAST INTO SECTION 11
FEATURE TYPE: ERODED COULEE

DIMENSIONS: 400 X 100 FEET

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1018

SUBSTRATE: SCORIA

EXPOSURE: NORTHWEST

DESCRIPTION: DEEP CUT TRIBUTARY TO COULEE 1; VIEW TO SSE
FEATURE TYPE: ERODED COULEE BANK

DIMENSIONS: 500 X 100 FEET

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1019

SUBSTRATE: SCORIA

EXPOSURE: EAST

DESCRIPTION: SCORIA CLIFFS ON COULEE 1; VIEW TO WNW
FEATURE TYPE: ERODED COULEE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1020

SUBSTRATE: SCORIA

EXPOSURE: WEST

DESCRIPTION: MID- COULEE 1; VIEW UPSTREAM TO NE. CLINKER OUTCROPS IN BACKGROUND
FEATURE TYPE: ERODED COULEE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SE 1/4

PHOTOPOINT GPS NO: 1021

SUBSTRATE: SCORIA

EXPOSURE: WEST

DESCRIPTION: MID- COULEE 1; VIEW DOWNSTREAM TO WEST. CLINKER OUTCROPS ON LEFT BANK
FEATURE TYPE: ERODED COULEE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SW 1/4

PHOTOPOINT GPS NO: 1022

SUBSTRATE: SCORIA

EXPOSURE: WEST

DESCRIPTION: LOWER COULEE 1; VIEW DOWNSTREAM TO WEST. POND 1 AREA.
FEATURE TYPE: CLINKER OUTCROPS (BACKGROUND)

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 10; SW 1/4

PHOTOPOINT GPS NO: 1023

SUBSTRATE: SCORIA

EXPOSURE: WEST

DESCRIPTION: VIEW TO NORTH; POND 1B AREA.
FEATURE TYPE: SANDSTONE OUTCROPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NW 1/4

PHOTOPOINT GPS NO: 1101

SUBSTRATE: SANDSTONE

EXPOSURE: NORTWEST

DESCRIPTION: PINE BREAKS; NORTH VIEW TOWARD THREE MILE CREEK
FEATURE TYPE: SANDSTONE OUTCROPS/BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NW 1/4

PHOTOPOINT GPS NO: 1102

SUBSTRATE: SANDSTONE, SHALE

EXPOSURE: NORTHWEST

DESCRIPTION: NORTHEAST VIEW TOWARD THREE MILE CREEK
FEATURE TYPE: SANDSTONE OUTCROPS/BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NW 1/4

PHOTOPOINT GPS NO: 1103

SUBSTRATE: SANDSTONE, SHALE

EXPOSURE: SOUTHWEST

DESCRIPTION: BREAKS ALONG THREE MILE TRIBUTARY; NORTHEAST VIEW TOWARD THREE MILE CREEK
FEATURE TYPE: SANDSTONE OUTCROPS/BADLANDS

DIMENSIONS: 800 X 150 FEET

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1104

SUBSTRATE: VARIOUS

EXPOSURE: NORTHEAST

DESCRIPTION: BADLANDS ALONG THREE MILE DIVIDE; VIEW TO SOUTHEAST
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1105

SUBSTRATE: VARIOUS

EXPOSURE: NORTH

DESCRIPTION: BADLANDS TRIBUTARY COULEE TO THREE MILE CREEK; ANOTHER VIEW OF 11-3 VIEW TO NORTH
FEATURE TYPE: EROSION

DIMENSIONS: 200 X 5 FEET X 3-4 FEET DEEP

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1106

SUBSTRATE: SILTY CLAY

EXPOSURE: NORTHEAST

DESCRIPTION: ERODED COW PATH
FEATURE TYPE: EROSION

DIMENSIONS: 2900 X 50 FEET X 10-15 FEET DEEP (X 2; BOTH SIDES;

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1107

SUBSTRATE: SILTY CLAY

EXPOSURE: NORTHWEST

DESCRIPTION: DEEPLY ERODED TRIBUTARY COULEE TO THREE MILE
FEATURE TYPE: EROSION

DIMENSIONS: 2900 X 50 FEET X 10-15 FEET DEEP (X 2; BOTH SIDES)

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1108

SUBSTRATE: SILTY CLAY

EXPOSURE: NORTHWEST

DESCRIPTION: DEEPLY ERODED TRIBUTARY COULEE TO THREE MILE; ANOTHER VIEW OF 11-7
FEATURE TYPE: PETRIFIED STUMP

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1109

SUBSTRATE: SILTSTONE

EXPOSURE: NA

DESCRIPTION: A SINGLE STUMP AT THIS LOCATION; DISINTEGRATED ABOVE GROUND
FEATURE TYPE: BADLANDS BREAKS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1110

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: BADLAND BREAKS ALONG DIVIDE BETWEEN THREE MILE TRIBUTARY COULEES
FEATURE TYPE: PETRIFIED STUMPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1111

SUBSTRATE: SILTSTONE

EXPOSURE: NA

DESCRIPTION: ELEVEN STUMPS AT THIS LOCATION; FIRST OF FOUR VIEWS
FEATURE TYPE: PETRIFIED STUMPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1112

SUBSTRATE: SILTSTONE

EXPOSURE: NA

DESCRIPTION: ELEVEN STUMPS AT THIS LOCATION; SECOND OF FOUR VIEWS
FEATURE TYPE: PETRIFIED STUMPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1113

SUBSTRATE: SILTSTONE

EXPOSURE: NA

DESCRIPTION: ELEVEN STUMPS AT THIS LOCATION; THIRD OF FOUR VIEWS
FEATURE TYPE: PETRIFIED STUMPS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; NE 1/4

PHOTOPOINT GPS NO: 1114

SUBSTRATE: SILTSTONE

EXPOSURE: NA

DESCRIPTION: ELEVEN STUMPS AT THIS LOCATION; FOURTH OF FOUR VIEWS
FEATURE TYPE: BUTTE

DIMENSIONS: 500 X 200 X 20 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1115

SUBSTRATE: SILTSTONE / SHALE

EXPOSURE: WEST SHOWN

DESCRIPTION: VIEW TO SOUTHEAST OF BUTTE ON EAST SECTION LINE
FEATURE TYPE: BUTTE

DIMENSIONS: 200 X 200 X 40 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1116

SUBSTRATE: SILTSTONE / SCORIA

EXPOSURE: NORTHWEST SHOWN

DESCRIPTION: VIEW TO SOUTHEAST OF BUTTE ON SOUTHEAST SECTION CORNER
FEATURE TYPE: BADLANDS / BREAKS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1117

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: VIEW TO SSE OF UPPER COULEE NO.1
FEATURE TYPE: BADLANDS / BREAKS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1118

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: VIEW DOWNSTREAM TO WEST OF UPPER COULEE NO.1
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1119

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: DEEPLY ERODED TRIBUTARY FROM HEAD CUT; UPPER COULEE NO.1
FEATURE TYPE: BADLANDS; EROSION
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4
PHOTOPOINT GPS NO: 1120
SUBSTRATE: VARIOUS
EXPOSURE: WEST
DESCRIPTION: UPPER COULEE NO.1
FEATURE TYPE: BADLANDS; EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1121

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: LOWER COULEE NO.1; VIEW TO WEST
FEATURE TYPE: BADLANDS; EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1122

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE NO.1; VIEW TO SOUTHEAST; SCORIA CLIFFS IN BACKGROUND
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SE 1/4

PHOTOPOINT GPS NO: 1123

SUBSTRATE: SHALE, SILTY CLAY

EXPOSURE: SOUTH

DESCRIPTION: ERODED TRIBUTARY UPPER COULEE NO.1; VIEW TO SOUTHWEST
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SW 1/4

PHOTOPOINT GPS NO: 1124

SUBSTRATE: SHALE

EXPOSURE: SOUTH

DESCRIPTION: ERODED BADLANDS UPPER COULEE NO.1; VIEW TO NORTHEAST
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SW 1/4

PHOTOPOINT GPS NO: 1125

SUBSTRATE: SHALE

EXPOSURE: WEST

DESCRIPTION: ERODED BADLANDS UPPER COULEE NO.1; VIEW TO SOUTHEAST
FEATURE TYPE: POND

DIMENSIONS: 400 X 400 FEET

LOCATION:  TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SW 1/4

PHOTOPOINT GPS NO: 1126

SUBSTRATE:  SHALE

EXPOSURE:  WEST

DESCRIPTION:  POND MID- COULEE NO.1; VIEW TO SOUTHWEST; ERODED SHALE IN FOREGROUND
FEATURE TYPE: ROCK OUTCROPS ; BREAKS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; SW 1/4

PHOTOPOINT GPS NO: 1127

SUBSTRATE: SANDSTONE

EXPOSURE: NORTH

DESCRIPTION: SOUTH FLANK BELOW, POND MID- COULEE NO.1; VIEW TO SSE; BADLANDS IN BACKGROUND
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 11; FROM SW 1/4

PHOTOPOINT GPS NO: 1128

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE NO. 1; SCORIA-TOPPED BUTTES AND BADLANDS
FEATURE TYPE: Steep Slope

DIMENSIONS: 150 X 30 Feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1201

SUBSTRATE: Shale

EXPOSURE: SW

DESCRIPTION: Small knob at the point of a ridge
FEATURE TYPE: Steep Slope / Erosion

DIMENSIONS: 80 X 20 Feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1202

SUBSTRATE: Shale / Silt

EXPOSURE: SE

DESCRIPTION: Small knob / Steep eroded slope
FEATURE TYPE: Steep Slope / Erosion

DIMENSIONS: 300 X 40 Feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1203

SUBSTRATE: Silt / Sandstone

EXPOSURE: W

DESCRIPTION: Deeply eroded coulee bank
FEATURE TYPE: Erosion

DIMENSIONS: 300 X 30 Feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1204

SUBSTRATE: Silt

EXPOSURE: E

DESCRIPTION: Eroded and incised coulee bank and tributary
FEATURE TYPE: Erosion

DIMENSIONS: 500 X 50 Feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SW 1/4

PHOTOPOINT GPS NO: 1205

SUBSTRATE: Silt & Sandstone

EXPOSURE: W

DESCRIPTION: Eroded incised coulee
FEATURE TYPE: Erosion

DIMENSIONS: Scattered

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1206

SUBSTRATE: Shale & Sandstone

EXPOSURE: SW

DESCRIPTION: Scattered erosion features along a ridge
FEATURE TYPE: Erosion

DIMENSIONS: Scattered

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1207

SUBSTRATE: Various

EXPOSURE: N

DESCRIPTION: Upper tributary coulee eroded breaks
FEATURE TYPE: Erosion

DIMENSIONS: 300 X 30 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1208

SUBSTRATE: shale, sandstone

EXPOSURE: SW

DESCRIPTION: Upper reach tributary coulee eroded breaks
FEATURE TYPE: Erosion

DIMENSIONS: 800 X 200 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1209

SUBSTRATE: Various

EXPOSURE: NW flow direction

DESCRIPTION: Eroded & incised coulee tributary (middle reach) with sandstone outcrops exposed
FEATURE TYPE: Erosion

DIMENSIONS: 800 X 150 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1210

SUBSTRATE: Various

EXPOSURE: SW facing bank

DESCRIPTION: Eroded & incised coulee tributary (lower reach) with sandstone outcrops exposed
FEATURE TYPE: Erosion
DIMENSIONS: Scattered
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SW 1/4
PHOTOPOINT GPS NO: 1211
SUBSTRATE: Various
EXPOSURE: East
DESCRIPTION: Eroded hillside on west side of main coulee below windmill
FEATURE TYPE: Erosion

DIMENSIONS: 80 X 300 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SW 1/4

PHOTOPOINT GPS NO: 1212

SUBSTRATE: Silt

EXPOSURE: East

DESCRIPTION: Eroded side tributary with deep head cut
FEATURE TYPE: Erosion

DIMENSIONS: 150 X 600 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SW 1/4

PHOTOPOINT GPS NO: 1213

SUBSTRATE: Various

EXPOSURE: North flowing

DESCRIPTION: Eroded and incised main coulee below windmill
FEATURE TYPE: Steep slope / Erosion
DIMENSIONS: 50 X 200 feet
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SW 1/4
PHOTOPOINT GPS NO: 1214
SUBSTRATE: silt & clay
EXPOSURE: E
DESCRIPTION: Steep eroded hillside / bluff
FEATURE TYPE: Steep slope / Erosion

DIMENSIONS: 80 X 900 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1215

SUBSTRATE: various

EXPOSURE: E

DESCRIPTION: Steep eroded hillside on east flank of west tributary
FEATURE TYPE: Steep slope

DIMENSIONS: 200 X 2000 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1216

SUBSTRATE: various

EXPOSURE: SW

DESCRIPTION: Steep (>3:1) upper slope along east side of Section 12
FEATURE TYPE: Steep slope

DIMENSIONS: 50 X 200 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1217

SUBSTRATE: various

EXPOSURE: NE

DESCRIPTION: Steep bluff
FEATURE TYPE: Steep slope / Erosion

DIMENSIONS: 50 X 300 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; SE 1/4

PHOTOPOINT GPS NO: 1218

SUBSTRATE: clay & silt

EXPOSURE: SW

DESCRIPTION: Steep eroded gumbo knob
FEATURE TYPE: Erosion (foreground); Steep slope (background)
DIMENSIONS: Scattered (foreground); 100 X 400 feet (background)
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NE 1/4
PHOTOPOINT GPS NO: 1219
SUBSTRATE: Various
EXPOSURE: SW
DESCRIPTION: General view of NE 1/4
FEATURE TYPE: Steep slope / Erosion

DIMENSIONS: 100 X 400 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NE 1/4

PHOTOPOINT GPS NO: 1220

SUBSTRATE: Clay

EXPOSURE: SW

DESCRIPTION: Eroded gumbo steep upper slope
FEATURE TYPE: Erosion

DIMENSIONS: 120 X 800 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NE 1/4

PHOTOPOINT GPS NO: 1221

SUBSTRATE: Clay & sandstone

EXPOSURE: N flowing

DESCRIPTION: West tributary middle reach looking up coulee. Many sandstone outcrops in this area obscured by vegetation.
FEATURE TYPE: Rock outcrop

DIMENSIONS: 50 X 200 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NE 1/4

PHOTOPOINT GPS NO: 1222

SUBSTRATE: Sandstone

EXPOSURE: W

DESCRIPTION: Multiple sandstone knobs in this area
FEATURE TYPE: Erosion

DIMENSIONS: 500 X 200 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NE 1/4

PHOTOPOINT GPS NO: 1223

SUBSTRATE: Silt

EXPOSURE: W

DESCRIPTION: Deeply incised tributary coulee east of pond looking downstream from head cut
FEATURE TYPE: Steep slope / Erosion

DIMENSIONS: 50 X 100 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NE 1/4

PHOTOPOINT GPS NO: 1224

SUBSTRATE: Clay & sandstone

EXPOSURE: W

DESCRIPTION: East side of lower coulee along Three Mile Creek breaks (Three Mile Creek in left background)
FEATURE TYPE: Steep slope

DIMENSIONS: 150 X 500 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NW 1/4

PHOTOPOINT GPS NO: 1225

SUBSTRATE: Various

EXPOSURE: E

DESCRIPTION: West side of lower coulee looking upstream
FEATURE TYPE: Steep slope (left) / rock outcrops (right)

DIMENSIONS: 100 X 600 feet (left); 200 X 200 feet (right)

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NW 1/4

PHOTOPOINT GPS NO: 1226

SUBSTRATE: Various

EXPOSURE: Various

DESCRIPTION: Small Three Mile Creek tributary (Three Mile Creek in background)
FEATURE TYPE: Rock outcrops / Erosion

DIMENSIONS: Scattered

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NW 1/4

PHOTOPOINT GPS NO: 1227

SUBSTRATE: Sandstone & clay

EXPOSURE: W

DESCRIPTION: Numerous small rock outcrops in this area
FEATURE TYPE: Rock outcrops / Erosion

DIMENSIONS: 80 X 150 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NW 1/4

PHOTOPOINT GPS NO: 1228

SUBSTRATE: Sandstone & clay

EXPOSURE: NW

DESCRIPTION: Same area as No. 12-27
FEATURE TYPE: Steep slope/ Erosion

DIMENSIONS: 50 X 200 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NW 1/4

PHOTOPOINT GPS NO: 1229

SUBSTRATE: Sandstone & clay

EXPOSURE: E

DESCRIPTION: Along west boundary of Section 12
FEATURE TYPE: Steep slope/ Erosion

DIMENSIONS: 50 X 200 feet

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 12; NW 1/4

PHOTOPOINT GPS NO: 1230

SUBSTRATE: Sandstone & clay

EXPOSURE: E

DESCRIPTION: Multiple bluffs along west boundary of Section 12
FEATURE TYPE: BADLANDS / GUMBO KNOBS

DIMENSIONS: 800 X 100 FEET

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NW 1/4

PHOTOPOINT GPS NO: 1401

SUBSTRATE: SHALE

EXPOSURE: SOUTH EXPOSURE SHOWN

DESCRIPTION: NORTH FLANK UPPER COULEE 2; VIEW TO ESE
FEATURE TYPE: BADLANDS / BUTTES

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NW 1/4

PHOTOPOINT GPS NO: 1402

SUBSTRATE: SHALE, SCORIA

EXPOSURE: SOUTHWEST EXPOSURE SHOWN

DESCRIPTION: UPPER DRAIANGE 2; BLM FENCE IN FOREGROUND; VIEW TO ESE
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1403

SUBSTRATE: SHALE, SCORIA

EXPOSURE: WEST

DESCRIPTION: VIEW TO SSE
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1404

SUBSTRATE: SILTY CLAY, SCORIA

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 1, SOUTH BRANCH; POND IN BACKGROUND
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1405

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 2, VIEW TO EAST
FEATURE TYPE: BADLANDS
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4
PHOTOPOINT GPS NO: 1406
SUBSTRATE: VARIOUS
EXPOSURE: WEST
DESCRIPTION: UPPER COULEE 2, VIEW TO SOUTHEAST
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1407

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 2, VIEW TO SOUTH
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1408

SUBSTRATE: SCORIA, SHALE

EXPOSURE: WEST

DESCRIPTION: DEEPLY ERODED UPPER COULEE 2, VIEW UPSTREAM
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1409

SUBSTRATE: SCORIA, SHALE

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 3, CLIFFS IN BACKGROUND
FEATURE TYPE: EROSION

DIMENSIONS: 2200 X 30 FEET (X2; BOTH SIDES)

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NE 1/4

PHOTOPOINT GPS NO: 1410

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 3 LOOKING DOWNSTREAM
FEATURE TYPE: GUMBO KNOB

DIMENSIONS: 250 X 100 FEET

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, NW 1/4

PHOTOPOINT GPS NO: 1411

SUBSTRATE: SHALE

EXPOSURE: SOUTH EXPOSURE SHOWN

DESCRIPTION: OUTLIER GUMBO KNOB / BUTTE
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SW 1/4

PHOTOPOINT GPS NO: 1412

SUBSTRATE: SHALE / SILTSTONE

EXPOSURE: WEST

DESCRIPTION: EROSION AREA WITH SALINE CRUST AND NO SOIL REMAINING
FEATURE TYPE: BUTTE

DIMENSIONS: 150 X 100 FEET

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4

PHOTOPOINT GPS NO: 1413

SUBSTRATE: SHALE / SILTSTONE

EXPOSURE: WEST

DESCRIPTION: SMALL OUTLIER BUTTE
FEATURE TYPE: BADLANDS / BUTTE

DIMENSIONS: 300 X 100 X 30 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4

PHOTOPOINT GPS NO: 1414

SUBSTRATE: SCORIA / SHALE

EXPOSURE: SOUTH EXPOSURE SHOWN

DESCRIPTION: RIDGE BETWEEN DRAINAGES 3 AND 5
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4

PHOTOPOINT GPS NO: 1415

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: CLIFFS IN BACKGROUND AT EAST BOUNDARY OF SECTION 14
FEATURE TYPE: BADLANDS / EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4

PHOTOPOINT GPS NO: 1416

SUBSTRATE: VARIOUS

EXPOSURE: SOUTHWEST

DESCRIPTION: DEEPLY ERODED COULEE; UPPER DRAINAGE 7 (FORTUNE COULEE) UPSTREAM VIEW
FEATURE TYPE: BADLANDS / EROSION
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4
PHOTOPOINT GPS NO: 1417
SUBSTRATE: VARIOUS
EXPOSURE: SOUTHWEST
DESCRIPTION: DEEPLY ERODED COULEE; UPPER DRAINAGE 7 (FORTUNE COULEE) VIEW ACROSS TO EAST; CLIFFS IN BACKGROUND
FEATURE TYPE: BADLANDS / EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4

PHOTOPOINT GPS NO: 1418

SUBSTRATE: VARIOUS

EXPOSURE: SOUTHWEST

DESCRIPTION: DEEPLY ERODED COULEE; UPPER DRAINAGE 7 (FORTUNE COULEE) VIEW DOWNSTREAM TO SOUTHWEST
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 14, SE 1/4

PHOTOPOINT GPS NO: 1419

SUBSTRATE: VARIOUS

EXPOSURE: SOUTHWEST

DESCRIPTION: DEEPLY ERODED COULEE; UPPER DRAINAGE 7 (FORTUNE COULEE) TRIBUTARY; VIEW TO SOUTH
FEATURE TYPE: BUTTES

DIMENSIONS: 500 X 150 X 20 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1501

SUBSTRATE: SILTSTONE / SANDSTONE

EXPOSURE: SE EXPOSURE SHOWN

DESCRIPTION: LOW BUTTES ALONG DIVIDE BETWEEN DRAINAGES 3 AND 4
FEATURE TYPE: BUTTES

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1502

SUBSTRATE: SILTSTONE / SANDSTONE

EXPOSURE: SE EXPOSURE SHOWN

DESCRIPTION: LOW BUTTES ALONG DIVIDE BETWEEN DRAINAGES 3 AND 4
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1503

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: LOWER DRAINAGE 3; POND 3 LOCATION
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1504

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: ERODED COW PATH JUST NORTH OF 15-3
FEATURE TYPE: EROSION
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NE 1/4
PHOTOPOINT GPS NO: 1505
SUBSTRATE: SILTY CLAY
EXPOSURE: WEST
DESCRIPTION: ERODED COULEE DRAINAGE 2; POND 2 LOCATION
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1506

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: ERODED COULEE DRAINAGE 2; UPSTREAM VIEW NORTH BRANCH
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1507

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: ERODED COULEE DRAINAGE 2; UPSTREAM VIEW SOUTH BRANCH
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NW 1/4

PHOTOPOINT GPS NO: 1508

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: DEEPLY ERODED COULEE NEAR OTTER CREEK FROM HEAD CUT
FEATURE TYPE: TERRACE; CLINKER OUTCROP

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NW 1/4

PHOTOPOINT GPS NO: 1509

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: ACCESS ROUTE ALONG OTTER CREEK
FEATURE TYPE: BROAD DRAINAGE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NE 1/4

PHOTOPOINT GPS NO: 1510

SUBSTRATE: SCORIA

EXPOSURE: WEST

DESCRIPTION: SOUTHERNMOST BRANCH COULEE 1; SPOIL STORAGE AREA
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NE 1/4

PHOTOPOINT GPS NO: 1511

SUBSTRATE: SCORIA; SILTSTONE

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 2; BADLANDS IN BACKGROUND AT UPPER END
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NE 1/4

PHOTOPOINT GPS NO: 1512

SUBSTRATE: SHALE

EXPOSURE: WEST

DESCRIPTION: DRAINAGE DIVIDE BETWEEN 1 AND 2
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, NE 1/4

PHOTOPOINT GPS NO: 1513

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: BLUFFS ON NORTH FLANK OF DRAINAGE 2; VIEW TO WEST
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1514

SUBSTRATE: SILTSTONE / SHALE

EXPOSURE: NORTH EXPOSURE SHOWN

DESCRIPTION: BLUFFS ON SOUTH FLANK OF DRAINAGE 3; VIEW TO SOUTHWEST
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 15, SE 1/4

PHOTOPOINT GPS NO: 1515

SUBSTRATE: SILTSTONE / SHALE

EXPOSURE: NORTH EXPOSURE SHOWN

DESCRIPTION: BLUFFS ON SOUTH FLANK OF DRAINAGE 3; VIEW TO SOUTHEAST
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 22, NE 1/4

PHOTOPOINT GPS NO: 2201

SUBSTRATE: SILTSTONE; SHALE

EXPOSURE: SOUTH

DESCRIPTION: BLUFFS ON NORTH FLANK OF LOWER COULEE 5
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 22, NE 1/4

PHOTOPOINT GPS NO: 2202

SUBSTRATE: SILTSTONE; SHALE

EXPOSURE: SOUTH

DESCRIPTION: BLUFFS ON NORTH FLANK OF LOWER COULEE 5; EAST OF 22-1
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 22, NE 1/4

PHOTOPOINT GPS NO: 2203

SUBSTRATE: SILTSTONE; SHALE

EXPOSURE: NORTH

DESCRIPTION: BLUFFS ON SOUTH FLANK OF LOWER COULEE 5
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 22, NE 1/4

PHOTOPOINT GPS NO: 2204

SUBSTRATE: SILTSTONE

EXPOSURE: WEST

DESCRIPTION: DEEPLY ERODED TRIBUTARY OF LOWER COULEE 5; POND 5 LOCATION IN BACKGROUND
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 22, NE 1/4

PHOTOPOINT GPS NO: 2205

SUBSTRATE: SILTSTONE

EXPOSURE: WEST

DESCRIPTION: CUT BANK LOWER COULEE 5; DOWNSTREAM VIEW
FEATURE TYPE: BUTTE

DIMENSIONS: 650 X 300 X 80 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NW 1/4

PHOTOPOINT GPS NO: 2301

SUBSTRATE: SHALE / SILTSTONE

EXPOSURE: NORTH EXPOSURE SHOWN

DESCRIPTION: ISOLATED PROMINENT BUTTE NEAR CENTER OF SECTION 23
FEATURE TYPE: BUTTES

DIMENSIONS: 350 X 250 X 100 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, SE 1/4

PHOTOPOINT GPS NO: 2302

SUBSTRATE: SHALE / SILTSTONE

EXPOSURE: NORTH EXPOSURE SHOWN

DESCRIPTION: PROMINENT BUTTE IN EAST CENTRAL SECTION 23
FEATURE TYPE: DRY POND

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4

PHOTOPOINT GPS NO: 2303

SUBSTRATE: SILTY CLAY

EXPOSURE: WEST

DESCRIPTION: DRY SEDIMENT FILLED DAM ON DRAINAGE 4
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4

PHOTOPOINT GPS NO: 2304

SUBSTRATE: SILTY CLAY

EXPOSURE: SOUTH

DESCRIPTION: COULEE 4 TRIBUTARY NORTH OF DRY POND; UPSTREAM VIEW
FEATURE TYPE: BUTTES

DIMENSIONS: 120 X 140 X 50 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4

PHOTOPOINT GPS NO: 2305

SUBSTRATE: SHALE / SILTSTONE

EXPOSURE: NORTH EXPOSURE SHOWN

DESCRIPTION: EDGE OF BADLANDS
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4

PHOTOPOINT GPS NO: 2306

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 4 TRIBUTARY UPSTREAM OF 23-4; UPSTREAM VIEW; SECTION 24 CLIFFS IN BACKGROUND
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4

PHOTOPOINT GPS NO: 2307

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER COULEE 6 DRAINAGE; SECTION 24 CLIFFS IN BACKGROUND
FEATURE TYPE: BLUFFS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, SE 1/4

PHOTOPOINT GPS NO: 2308

SUBSTRATE: VARIOUS

EXPOSURE: SOUTHWEST

DESCRIPTION: DIVIDE BETWEEN DRAINAGES 4 AND 6
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4

PHOTOPOINT GPS NO: 2309

SUBSTRATE: VARIOUS

EXPOSURE: SOUTHWEST

DESCRIPTION: NORTH TRIBUTARY OF SOUTH BRANCH ABOVE DRY POND; UPSTREAM VIEW; SECTION 24 CLIFFS IN BACKGROUND
FEATURE TYPE: EROSION
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4
PHOTOPOINT GPS NO: 2310
SUBSTRATE: VARIOUS
EXPOSURE: NORTHWEST
DESCRIPTION: SOUTH TRIBUTARY OF SOUTH BRANCH ABOVE DRY POND; DOWNSTREAM VIEW
FEATURE TYPE: EROSION
DIMENSIONS: NA
LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, NE 1/4
PHOTOPOINT GPS NO: 2311
SUBSTRATE: VARIOUS
EXPOSURE: WEST
DESCRIPTION: SOUTH TRIBUTARY OF SOUTH BRANCH ABOVE DRY POND; UPSTREAM VIEW INTO SECTION 24 AT SECTION LINE FENCE
FEATURE TYPE: BUTTE / CLIFFS

DIMENSIONS: 600 X 200 X 90 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 23, SE 1/4

PHOTOPOINT GPS NO: 2312

SUBSTRATE: SCORIA; SHALE

EXPOSURE: WEST

DESCRIPTION: ON SECTION 24 FENCE LINE
FEATURE TYPE: LANDSCAPE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 24, SW 1/4

PHOTOPOINT GPS NO: 2401

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: VIEW INTO SECTION 24; UPPER DRAINAGE 7 IN FOREGROUND; CLIFFS IN BACKGROUND. BLUFF IN CENTER IS CENTER OF SECTION 24
FEATURE TYPE: BADLANDS

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 24, SW 1/4

PHOTOPOINT GPS NO: 2402

SUBSTRATE: SCORIA; SHALE

EXPOSURE: WEST

DESCRIPTION: RIDGE BETWEEN UPPER TRIBUTARIES DRAINAGE 7
FEATURE TYPE: EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 24, SW 1/4

PHOTOPOINT GPS NO: 2403

SUBSTRATE: SCORIA; SHALE

EXPOSURE: SOUTH

DESCRIPTION: UPPER TRIBUTARY DRAINAGE 7; EAST SIDE OF 23-12 ON RIGHT
FEATURE TYPE: LANDSCAPE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 24, SW 1/4

PHOTOPOINT GPS NO: 2404

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER TRIBUTARY DRAINAGE 7; UPSTREAM VIEW TO EAST
FEATURE TYPE:  EROSION

DIMENSIONS:  NA

LOCATION:  TOWNSHIP 4 S, RANGE 45 E; SECTION 24, SW 1/4

PHOTOPOINT GPS NO: 2405

SUBSTRATE:  VARIOUS

EXPOSURE:  WEST

DESCRIPTION:  UPPER TRIBUTARY DRAINAGE 7; DOWNSTREAM VIEW TO SOUTHWEST
FEATURE TYPE: EROSION / LANDSCAPE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 25, NW 1/4

PHOTOPOINT GPS NO: 2501

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER TRIBUTARY DRAINAGE 7; UPSTREAM VIEW TO SOUTHEAST FROM SECTION LINE; CLIFFS IN BACKGROUND; RIDGE ON RIGHT
FEATURE TYPE: EROSION / LANDSCAPE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 25, NW 1/4

PHOTOPOINT GPS NO: 2502

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPPER TRIBUTARY DRAINAGE 7; DOWNSTREAM VIEW TO WEST FROM SECTION LINE
FEATURE TYPE: ROCK OUTCROP / BUTTE

DIMENSIONS: 400 X 300 X 40 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, NE 1/4

PHOTOPOINT GPS NO: 2601

SUBSTRATE: VARIOUS

EXPOSURE: WEST EXPOSURE SHOWN

DESCRIPTION: ROCK OUTCROPS AND LOW BUTTES IN NE QUARTER OF SECTION 26
FEATURE TYPE: LANDSCAPE / EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, NE 1/4

PHOTOPOINT GPS NO: 2602

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: UPSTREAM VIEW OF DRAINAGE 7 (FORTUNE COULEE) VIEW TO EAST
FEATURE TYPE: LANDSCAPE / EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, NE 1/4

PHOTOPOINT GPS NO: 2603

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: DRAINAGE 7 IN FOREGROUND; BREAKS AND BADLANDS IN BACKGROUND; VIEW TO SOUTHEAST
FEATURE TYPE: BUTTE / ROCK OUTCROP

DIMENSIONS: 400 X 200 X 50 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, NE 1/4

PHOTOPOINT GPS NO: 2604

SUBSTRATE: SANDSTONE

EXPOSURE: NORTH EXPOSURE SHOWN

DESCRIPTION: BUTTE IN CENTER OF SECTION 26
FEATURE TYPE: ROCK OUTCROP

DIMENSIONS: 450 X 120 X 30 FEET HIGH

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, SW 1/4

PHOTOPOINT GPS NO: 2605

SUBSTRATE: SANDSTONE

EXPOSURE: NORTHWEST EXPOSURE SHOWN

DESCRIPTION: CAPROCK FORMATION
FEATURE TYPE: LANDSCAPE / EROSION

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, SW 1/4

PHOTOPOINT GPS NO: 20-6

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: LOWER DRAINAGE 7 VIEW TO WEST
FEATURE TYPE: BREAKS / BUTTE

DIMENSIONS: NA

LOCATION: TOWNSHIP 4 S, RANGE 45 E; SECTION 26, SW 1/4

PHOTOPOINT GPS NO: 2607

SUBSTRATE: VARIOUS

EXPOSURE: WEST

DESCRIPTION: LOWER DRAINAGE 7 BREAKS IN DISTANCE; VIEW TO WEST