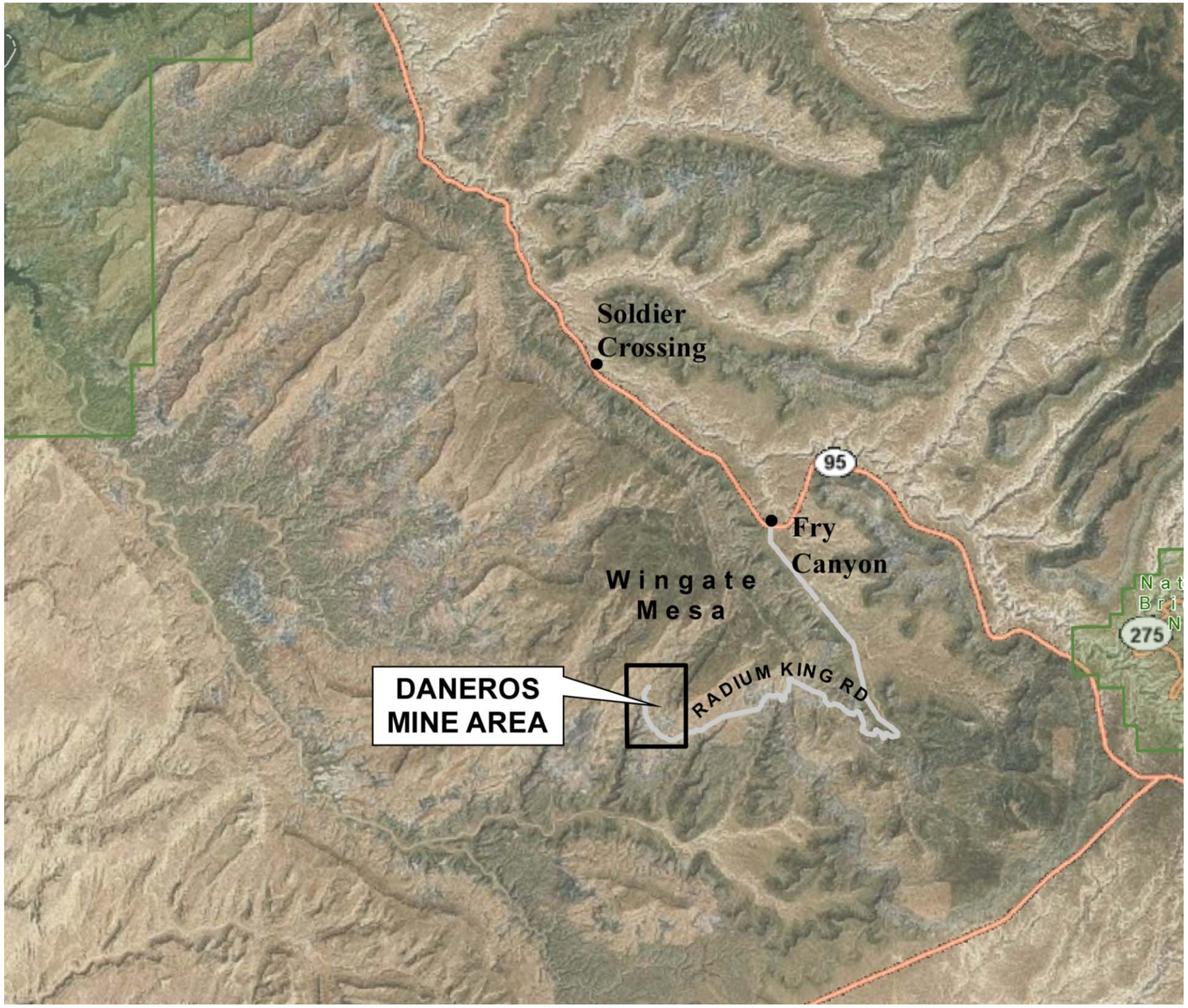

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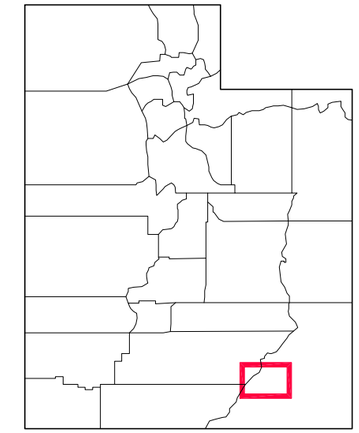


UTAH
NTS

0 3 6

APPROXIMATE SCALE IN MILES

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

CDM Smith
CDM Federal Programs Corporation
555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

SITE LOCATION MAP

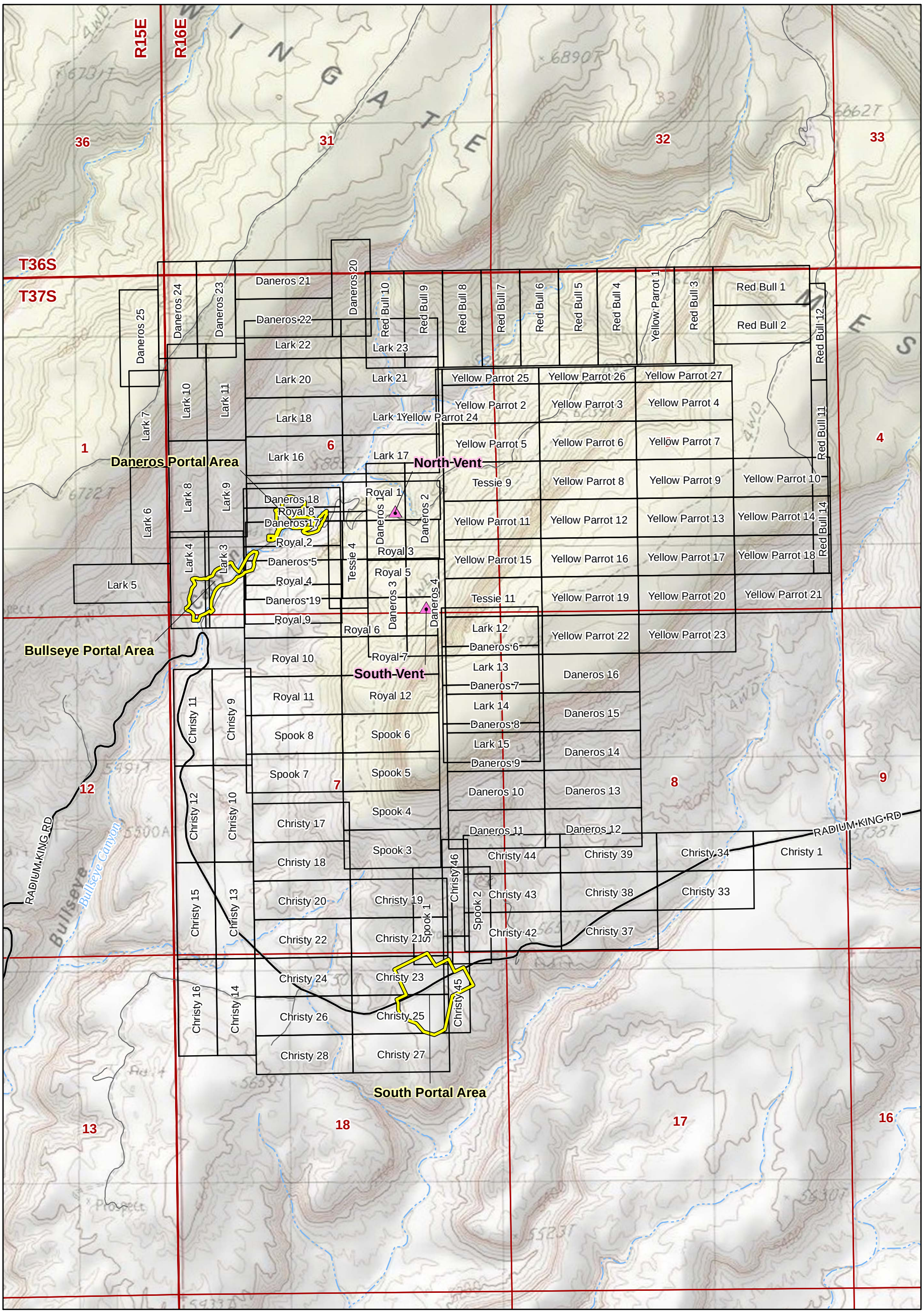
PROJECT NO. 64986
FILE NAME: FIGURE 1-1

FIGURE NO.

1-1

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 1-1

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION



Legend

- Existing Vent Shaft
- Proposed Limit of Disturbance
- Claim
- Local Road
- Rural Road
- Township and Range
- Section
- Ephemeral Drainage

N

1 IN = 1,500 FT

1,500 750 0 1,500

FEET

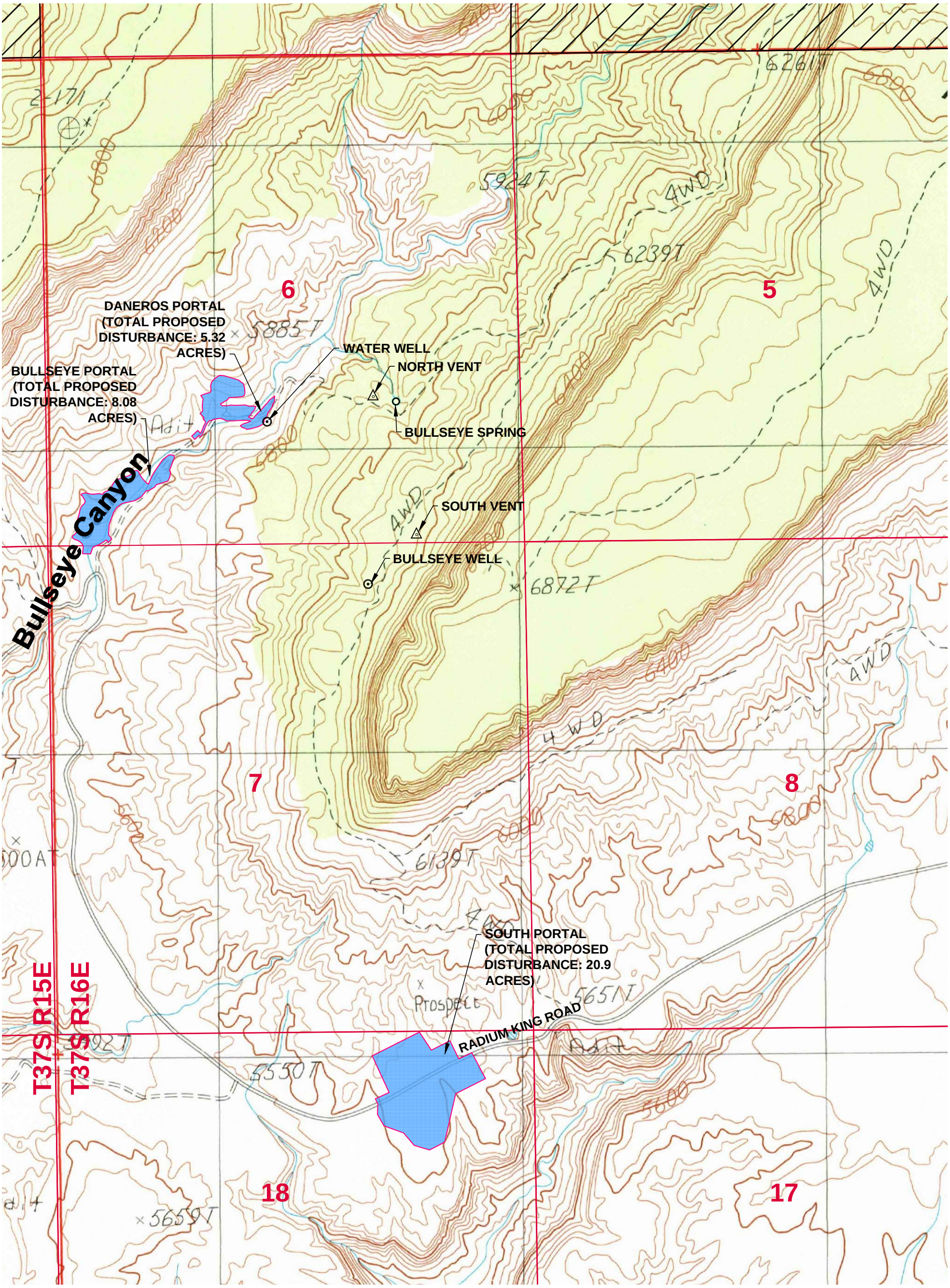
Service Layer Credits: Copyright:© 2013 National Geographic Society, i-cubed

Coordinate System: NAD 1983 StatePlane Utah South FIPS 4303

ENERGY FUELS

REVISIONS		Project: DANEROS MINE		
Date:	By:	County: San Juan	State: Utah	
		Location: T37S R16E		
		FIGURE 2-1		
		UNPATENTED MINING CLAIMS		
		Author: areither	Date: 1/18/2016	Drafted By: areither

S:\Source\UT\Daneros\Maps\POO Maps\Figure 2-1 Claims.mxd / 1/18/2016 4:28:14 PM by areither



PER LAND OWNERSHIP MAP PROVIDED BY UTAH AUTOMATED GEOGRAPHIC REFERENCE CENTER (AGRC) WEBSITE, ALL SURFACE OWNERSHIP WITHIN THE BOUNDARY OF THE MINE SITES IS BUREAU OF LAND MANAGEMENT (BLM).

0 1000' 2000'

SCALE IN FEET

LEGEND

- STATE LAND
- PROPOSED LIMIT OF DISTURBANCE
- SECTION LINE
- VENT SHAFT
- EPHEMERAL DRAINAGES
- SPRING
- WELL

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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Denver, CO 80202
Tel: (303) 383-2300

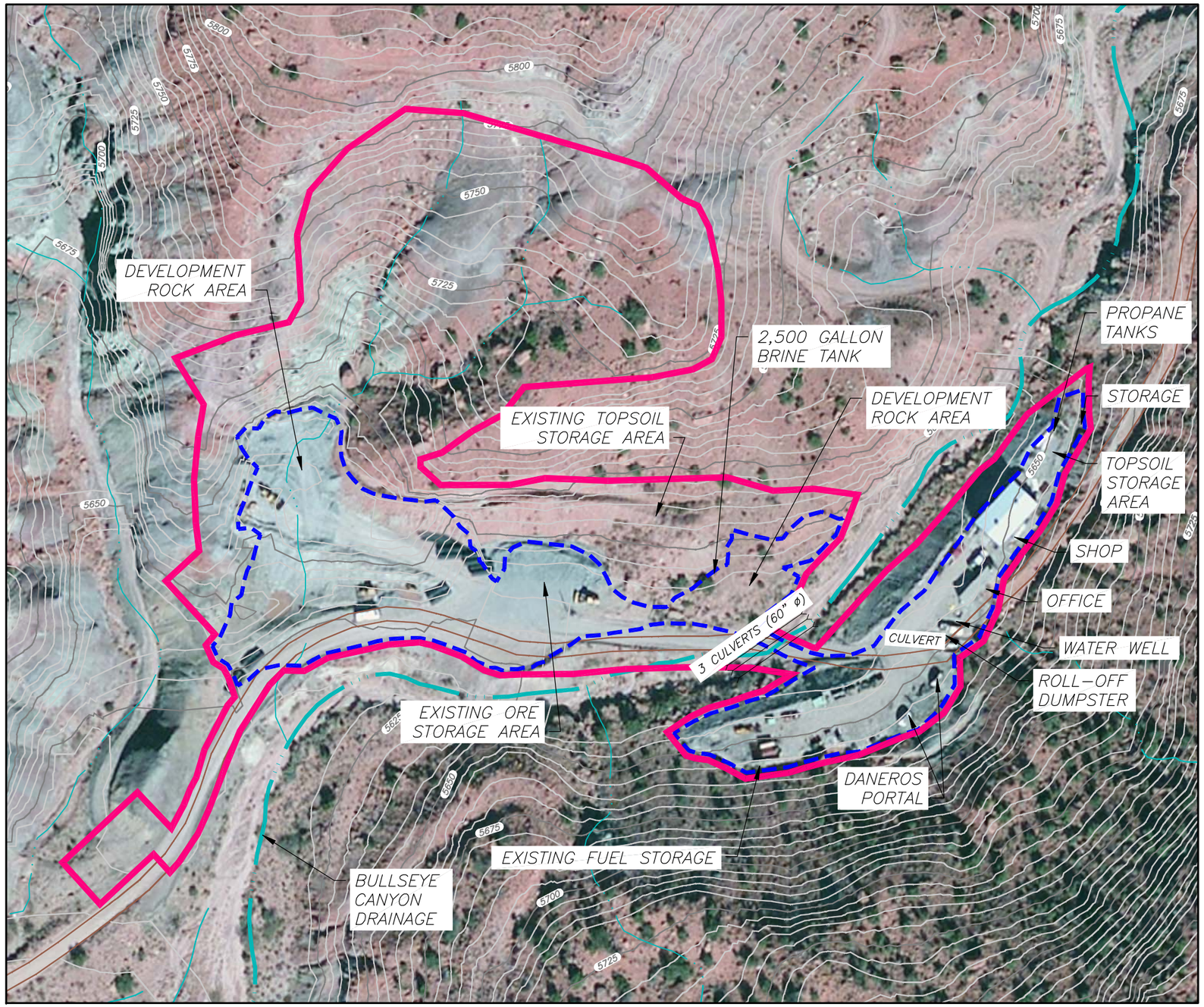
ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH
DANEROS MINE SITE

SURFACE OWNERSHIP MAP

PROJECT NO. 64986
FILE NAME: FIGURE 2-2
SHEET NO. 2-2

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 2-2

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION



LEGEND

N

- STORAGE — EXISTING FEATURE CALLOUT
- PERMITTED DISTURBED AREA
- PROPOSED LIMIT OF DISTURBED AREA
- EXISTING DRAINAGE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- ROAD

TOWNSHIP 37S
RANGE 16E
SECTION 6

0 100' 200'

SCALE IN FEET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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CDM Federal Programs Corporation
555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

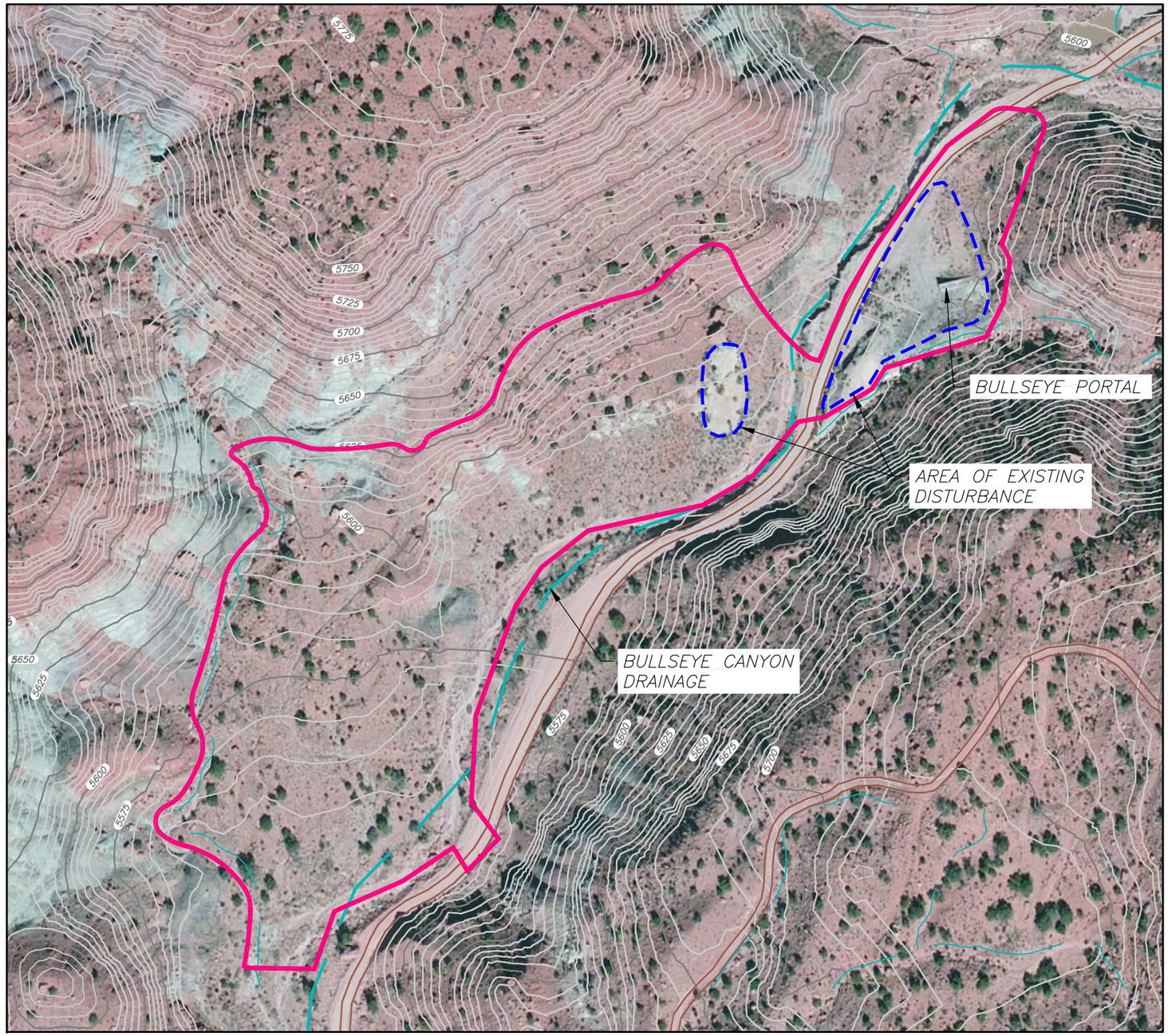
EXISTING CONDITION
DANEROS PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 3-1a

FIGURE NO.
3-1a

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 3-1a



N

LEGEND

- PORTAL — EXISTING FEATURE CALLOUT
- EXISTING DRAINAGE
- PROPOSED LIMIT OF DISTURBED AREA
- EXISTING DISTURBANCE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- ROAD

TOWNSHIP 37S
RANGE 16E
SECTION 6

0 150' 300'

SCALE IN FEET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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CDM Federal Programs Corporation
555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

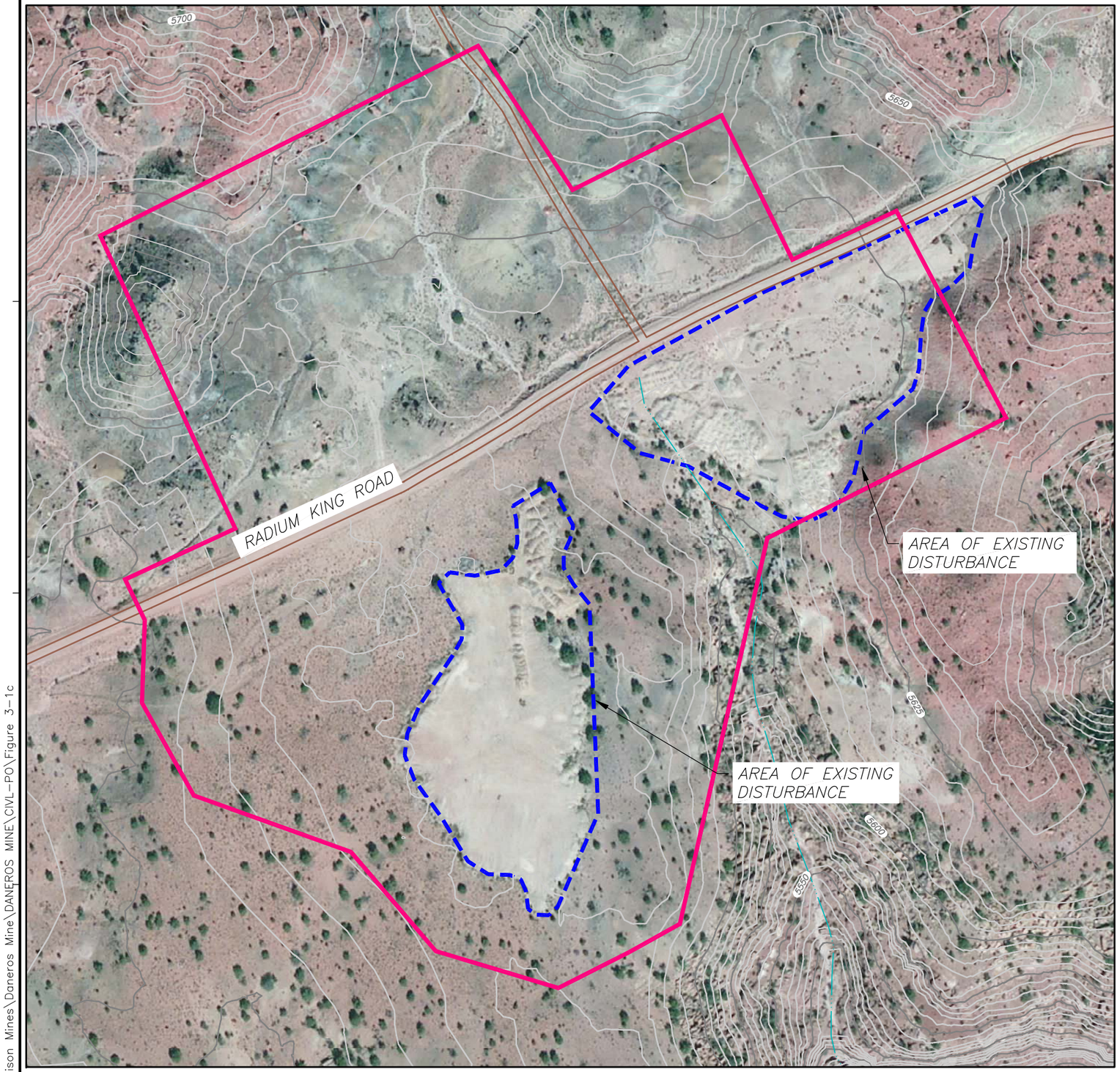
EXISTING CONDITION
BULLSEYE PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 3-1b

FIGURE NO.
3-1b

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 3-1b



N

LEGEND

- PORTAL — EXISTING FEATURE CALLOUT
- PROPOSED LIMIT OF DISTURBED AREA
- EXISTING DISTURBANCE
- EXISTING DRAINAGE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- ROAD

0 150' 300'

SCALE IN FEET

TOWNSHIP 37S
RANGE 16E
SECTION 18

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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Denver, CO 80202
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ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

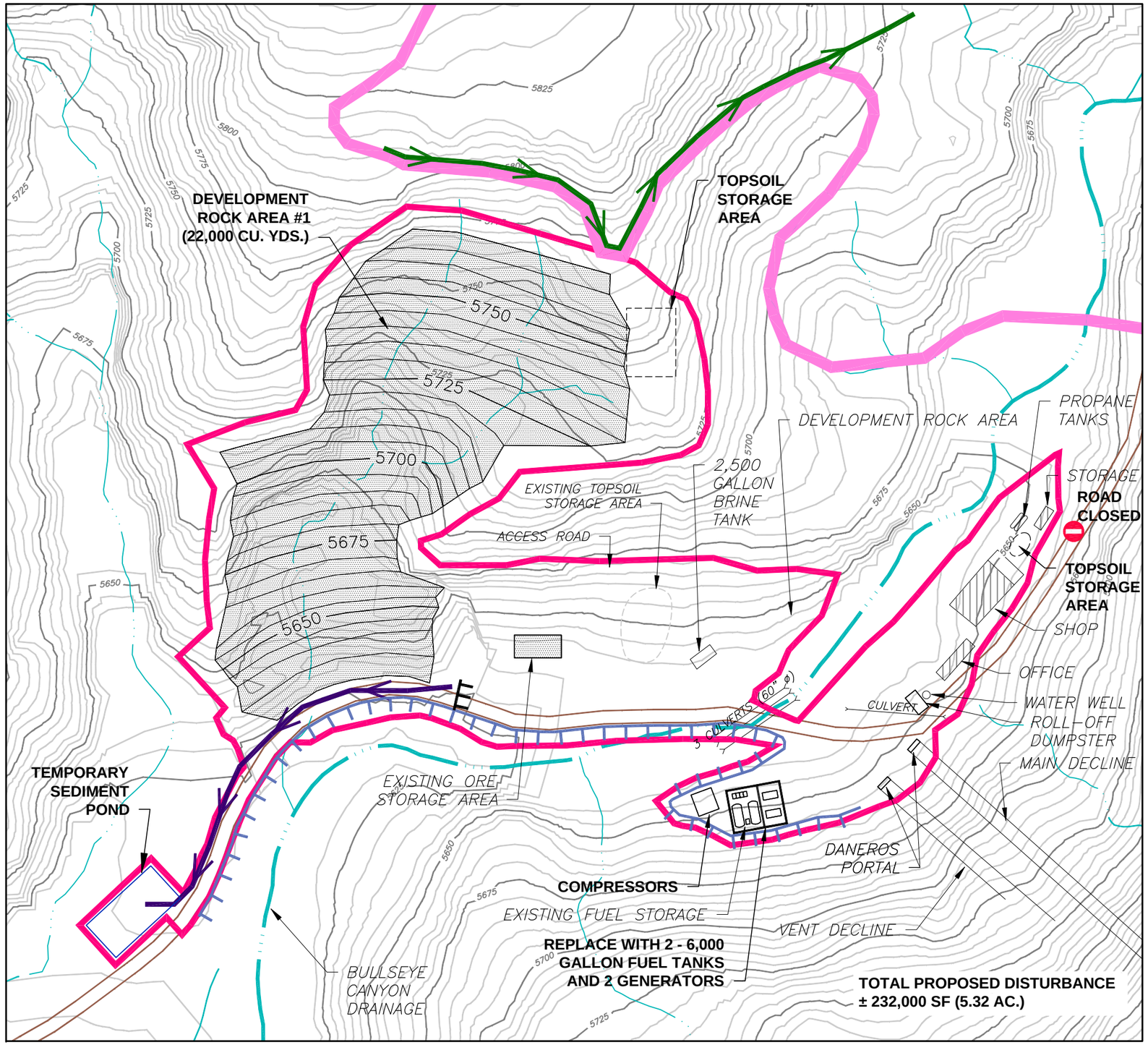
EXISTING CONDITION
SOUTH PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 3-1c

FIGURE NO.
3-1c

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 3-1c



LEGEND

N

- STORAGE — EXISTING FEATURE CALLOUT
- TANKS — PROPOSED FEATURE CALLOUT
- EXISTING BUILDING
- EXISTING EXPLORATION DRILLING ROAD
- PROPOSED LIMIT OF DISTURBED AREA
- EXISTING DIVERSION CHANNEL 1
- EXISTING COLLECTION CHANNEL 2
- EXISTING DRAINAGE
- EXISTING CATCHMENT BERM
- ROLLOVER BERM
- DELETERIOUS MATERIAL STORAGE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- PROPOSED CONTOUR INTERVAL (25 FT.)
- PROPOSED CONTOUR INTERVAL (5 FT.)
- ROAD
- SEDIMENT POND

0 100' 200'

SCALE IN FEET

TOWNSHIP 37S
RANGE 16E
SECTION 6

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

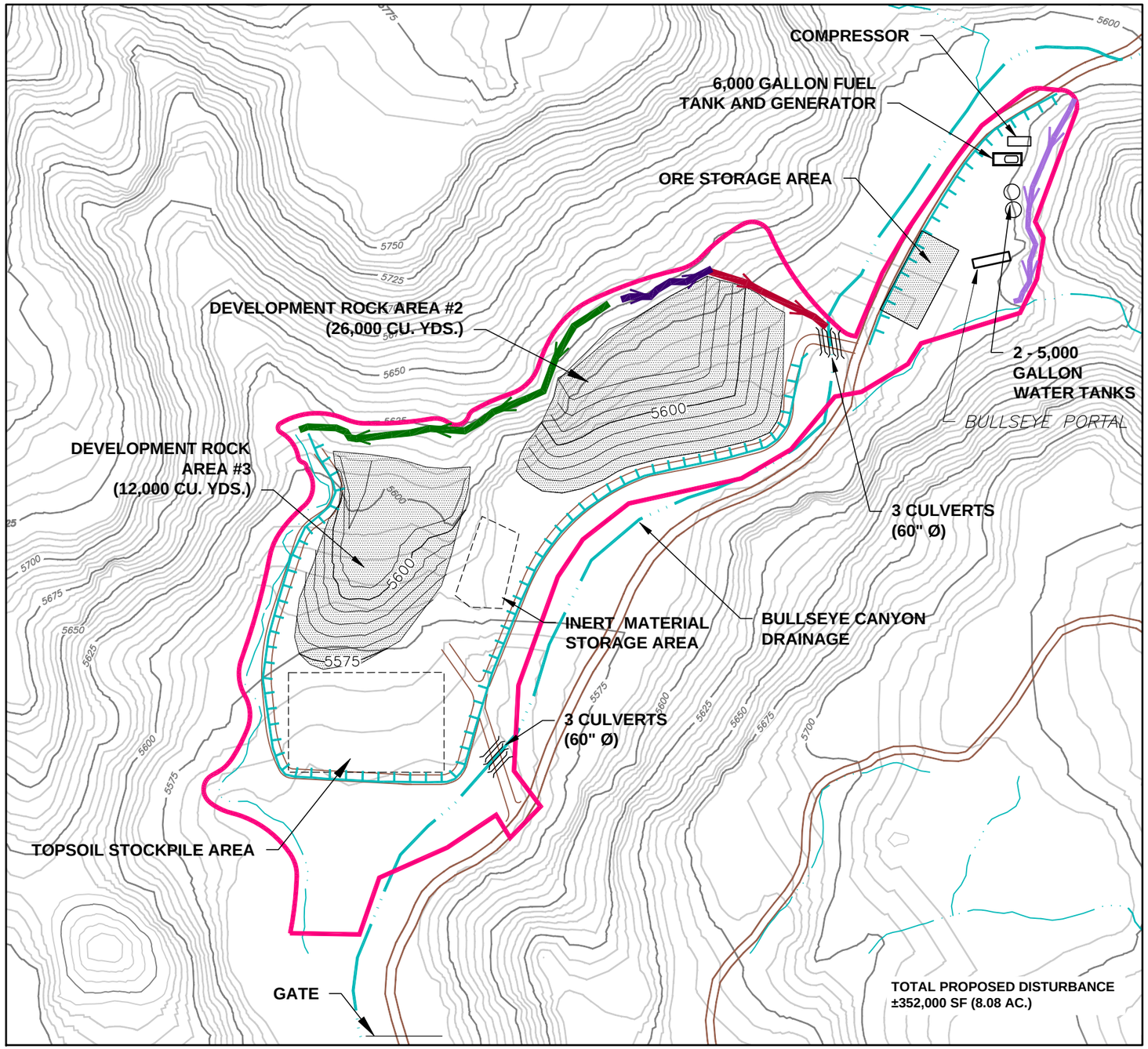
OPERATIONS
DANEROS PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 3-2a

FIGURE NO.
3-2a

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PQ\Figure 3-2a



N

LEGEND

PORTAL	EXISTING FEATURE CALLOUT
CULVERT	PROPOSED FEATURE CALLOUT
	PROPOSED LIMIT OF DISTURBED AREA
	PROPOSED DIVERSION CHANNEL 1
	PROPOSED DIVERSION CHANNEL 2A
	PROPOSED DIVERSION CHANNEL 2B
	PROPOSED DIVERSION CHANNEL 3
	PROPOSED CATCHMENT BERM
	EXISTING DRAINAGE
	DELETERIOUS MATERIAL STORAGE
	EXISTING CONTOUR INTERVAL (25 FT.)
	EXISTING CONTOUR INTERVAL (5 FT.)
	PROPOSED CONTOUR INTERVAL (25 FT.)
	PROPOSED CONTOUR INTERVAL (5 FT.)
	ROAD
	PROPOSED CULVERT

TOWNSHIP 37S
RANGE 16E
SECTION 6

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

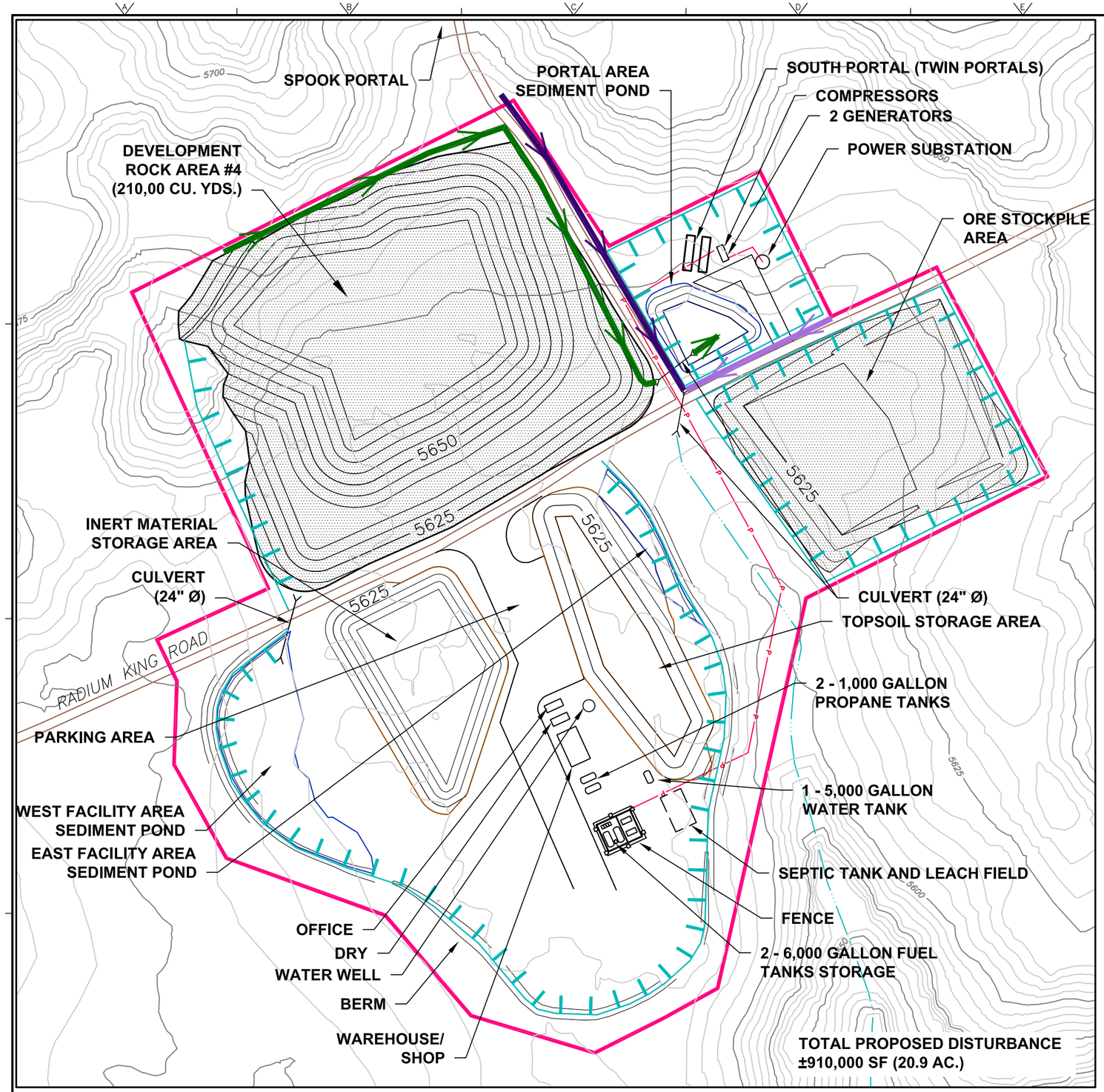
DANEROS MINE SITE

OPERATIONS
BULLSEYE PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 3-2b
FIGURE NO.
3-2b

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 3-2b



LEGEND

PORTAL	EXISTING FEATURE CALLOUT
BERM	PROPOSED FEATURE CALLOUT
	PROPOSED LIMIT OF DISTURBED AREA
	PROPOSED COLLECTION CHANNEL 1
	PROPOSED DIVERSION CHANNEL 2
	PROPOSED DIVERSION CHANNEL 3
	EXISTING DRAINAGE
	BERM
	SEDIMENT POND
	FENCE
	DELETERIOUS MATERIAL STORAGE
	POWERLINE
	EXISTING CONTOUR INTERVAL (25 FT.)
	EXISTING CONTOUR INTERVAL (5 FT.)
	PROPOSED CONTOUR INTERVAL (25 FT.)
	PROPOSED CONTOUR INTERVAL (5 FT.)
	ROAD

TOWNSHIP 37S
RANGE 16E
SECTION 18

0 150' 300'

SCALE IN FEET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

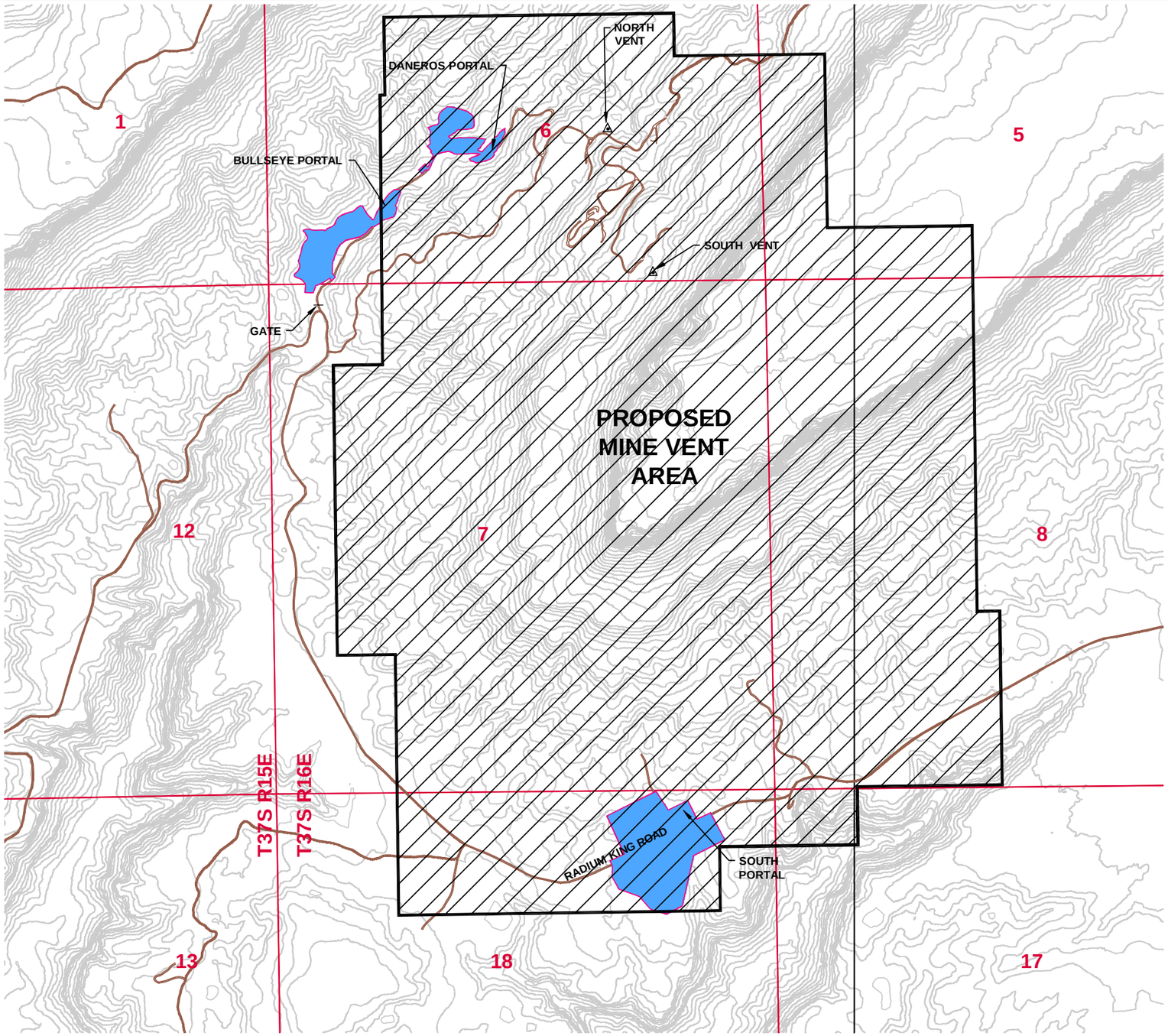
OPERATIONS
SOUTH PORTAL AREA

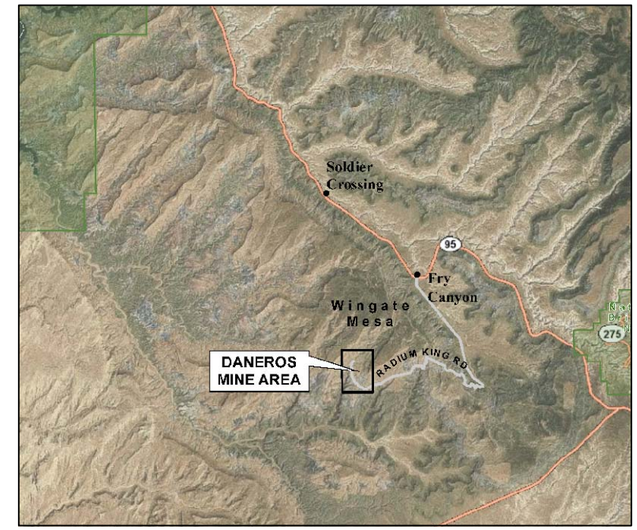
PROJECT NO. 64986
FILE NAME: FIGURE 3-2c

FIGURE NO.
3-2c

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\CIVIL-PO\Figure 3-2c





VICINITY MAP
NTS

LEGEND

- PROPOSED MINE VENT AREA
- ROAD
- PROPOSED LIMIT OF DISTURBED AREA
- VENT SHAFT
- EXISTING CONTOUR INTERVAL (25 FT.)
- SECTION LINE

0 1200' 2400'

SCALE IN FEET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

CDM Smith
CDM Federal Programs Corporation
555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

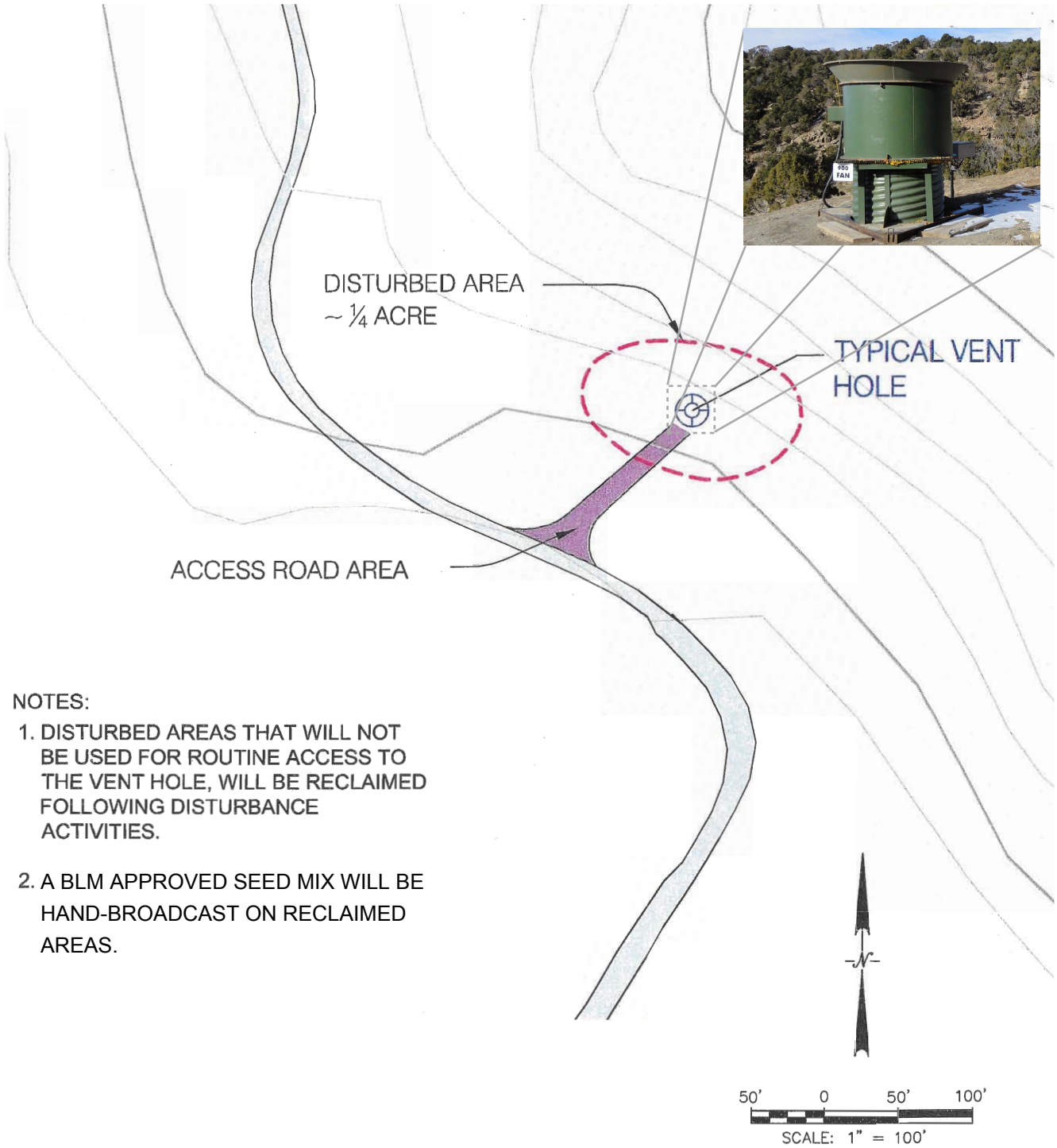
VENT HOLE AREA

PROJECT NO. 64986
FILE NAME: FIGURE 3-3

FIGURE NO.
3-3

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 3-3



NOTES:

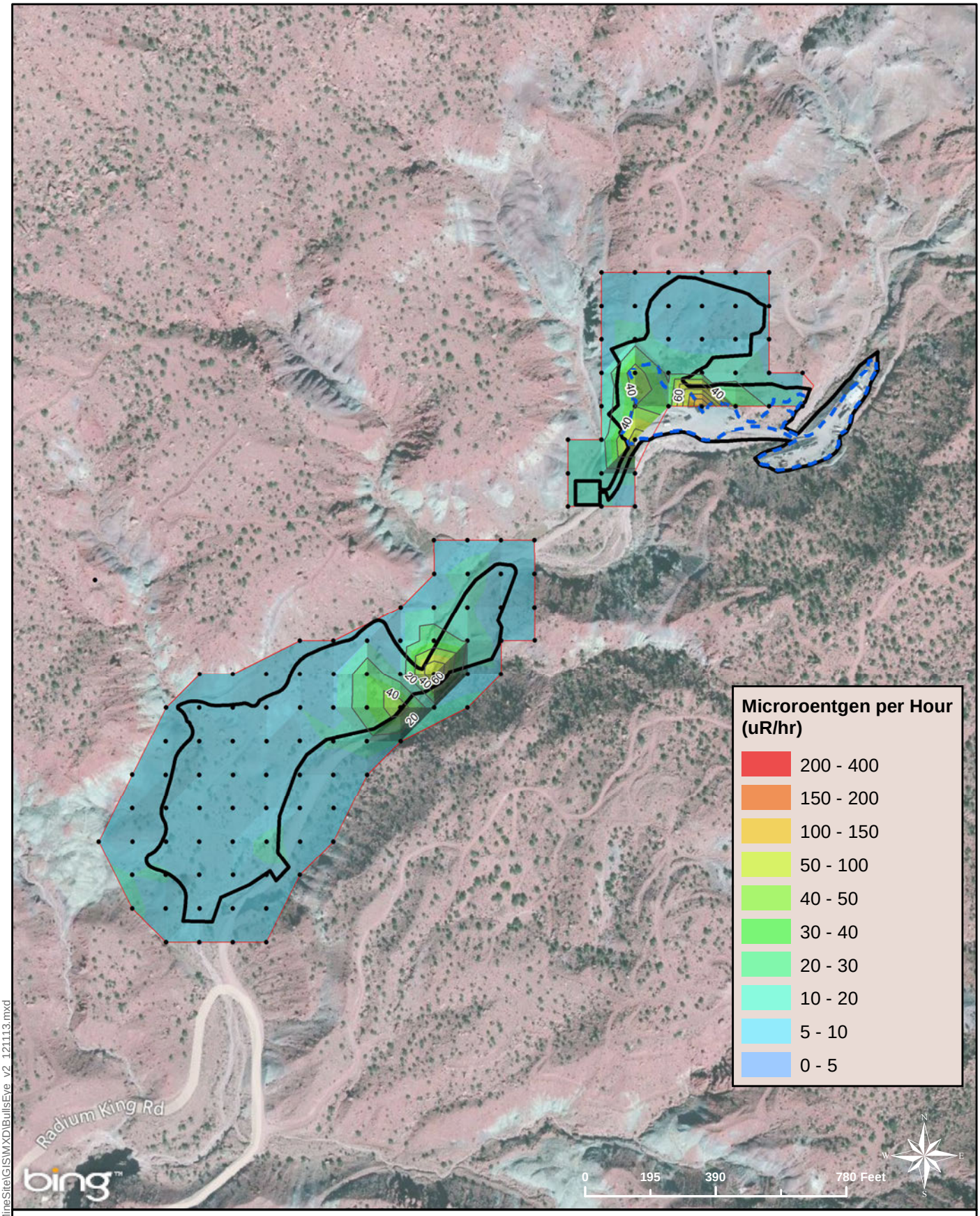
1. DISTURBED AREAS THAT WILL NOT BE USED FOR ROUTINE ACCESS TO THE VENT HOLE, WILL BE RECLAIMED FOLLOWING DISTURBANCE ACTIVITIES.
2. A BLM APPROVED SEED MIX WILL BE HAND-BROADCAST ON RECLAIMED AREAS.

LEGEND

- VENT HOLE
- DISTURBED AREA
- EXISTING ROAD
- PROPOSED ACCESS ROAD

Figure 3-4
Typical Vent Hole Area of Disturbance

Energy Fuels Resources (USA) Inc.



CDM Smith

Sample Points (June 2012)

20 uR/hr Contours

100 uR/hr Contours

Proposed Disturbed Boundary

Permitted Disturbed Boundary

Sample Extent

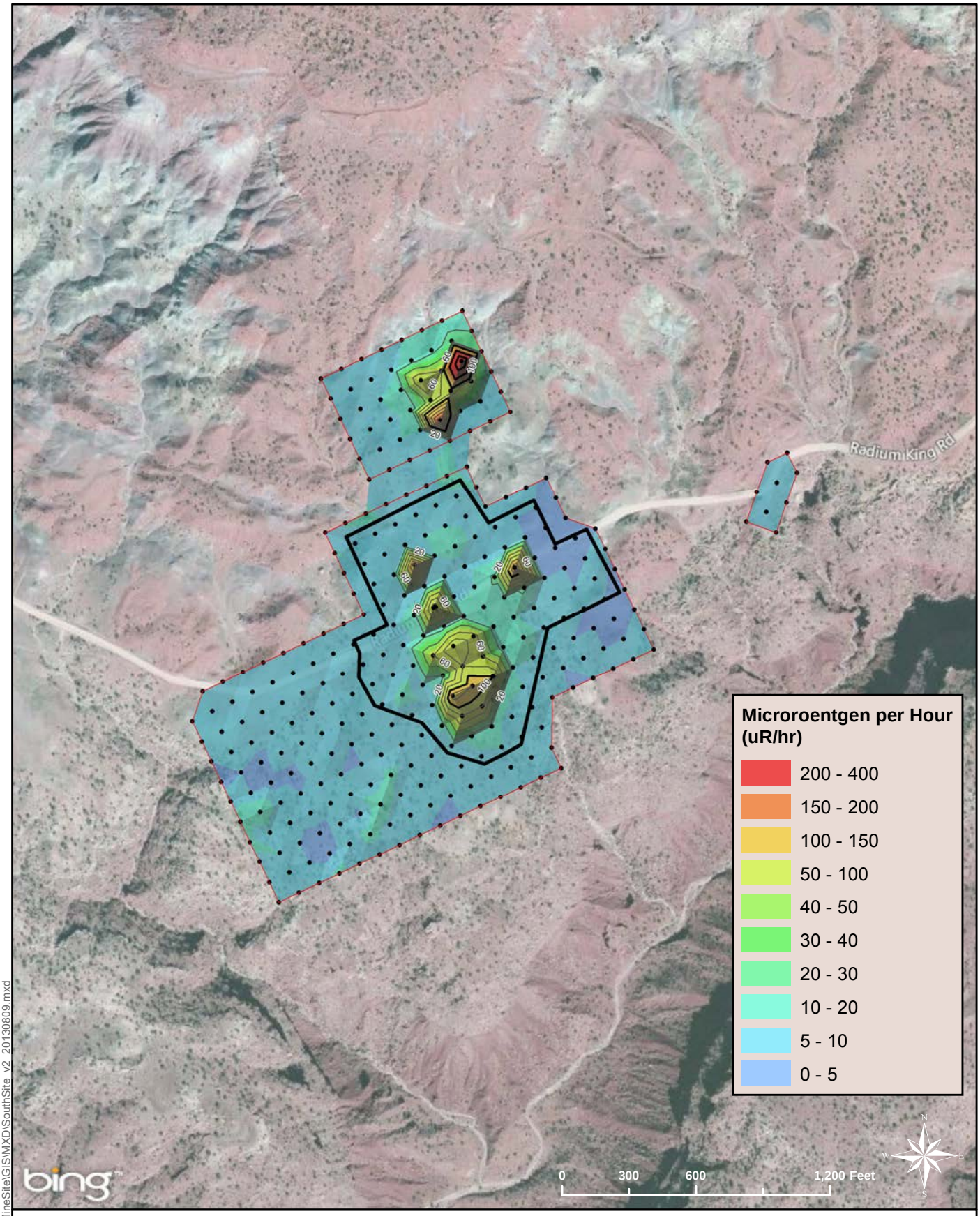
Figure 3-5

Gamma Survey

Bullseye Portal Area

Energy Fuels Resources (USA) Inc.

Path: O:\64986-DanerosMineSite\GIS\MXD\BullsEye_v2_121113.mxd



CDM Smith

Sample Points (June 2012)

20 uR/hr Contours

100 uR/hr Contours

Proposed Disturbed Boundary

Sample Extent

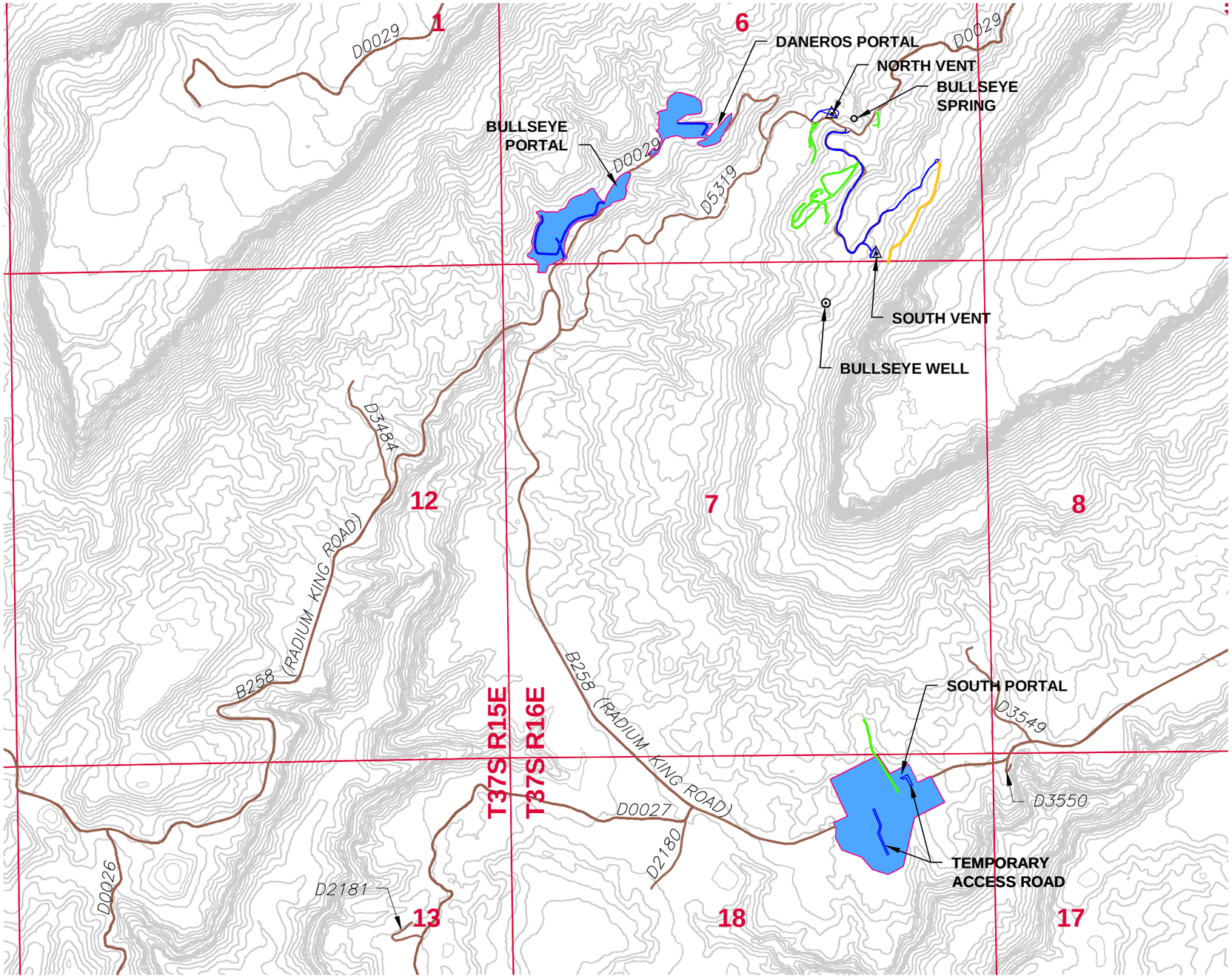
Figure 3-6

Gamma Survey

South Portal Area

Energy Fuels Resources (USA) Inc.

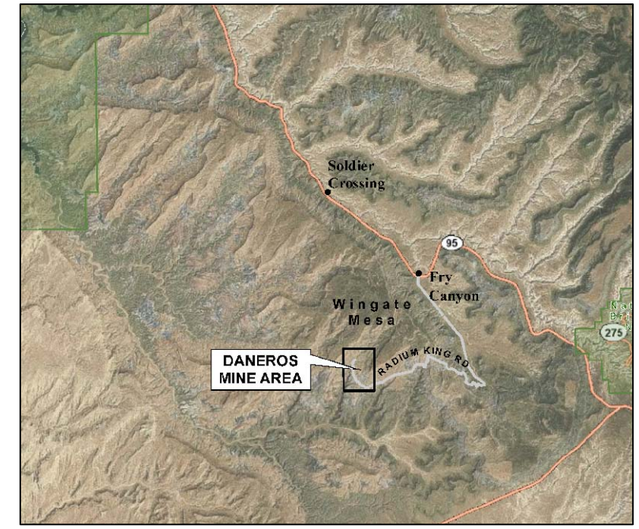
Path: O:\64986-DanerosMineSite\GIS\MXD\SouthSite_v2_20130809.mxd



0 1200' 2400'

SCALE IN FEET

N



VICINITY MAP
NTS

LEGEND

- COUNTY ROAD (NO RECLAMATION)
- MISCELLANEOUS EXISTING ROAD (NO RECLAMATION UNLESS UTILIZED AS ACCESS ROAD)
- TEMPORARY ACCESS ROAD (TO BE RECLAIMED)
- RECLAIMED ROAD
- PROPOSED LIMIT OF DISTURBED AREA
- VENT SHAFT
- EXISTING CONTOUR INTERVAL (25 FT.)
- SECTION LINE
- WELL

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

CDM Smith
CDM Federal Programs Corporation
555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

SURFACE ROADS

PROJECT NO. 64986
FILE NAME: FIGURE 3-7
FIGURE NO.
3-7

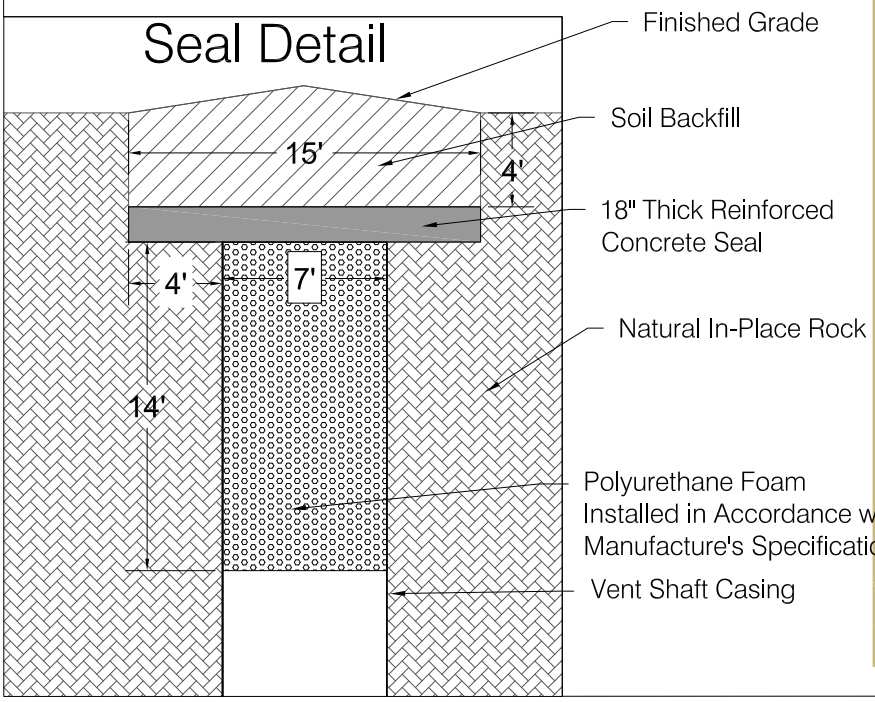
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

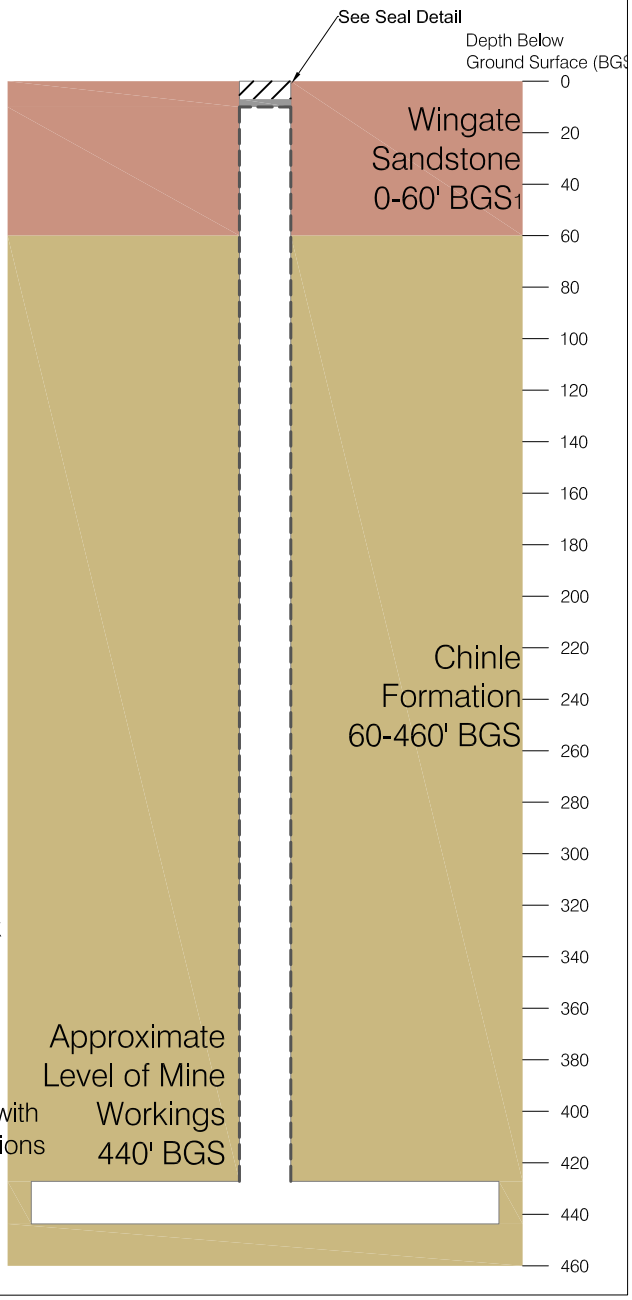
X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 3-7

s:\source\usa\ut\daneros\maps\vent closure design\vent closure design.dwg cased vents 4-1 rellis

Notes:

1. The Wingate Sanstone varies between 0 feet and greater than 1000 feet thick in the area of the Daneros Mine.
2. The 2 existing vents are 7 feet in diameter and are cased. Future vents are expected to be 7 feet in diameter and cased. All Vents will be cased for the top 20-feet.
3. The concrete foundation for the vent fan shroud will be broken and placed within the vent shaft.
4. The vent casing will be removed to 5.5-feet below ground surface.
5. Approximately 3-inches of surface soil around the vent will be placed within the vent.
6. A bottom form will be placed to hold the initial polyurethane foam. Alternatively, the first lift of foam can be sprayed directly onto the steel casing and allowed to cure creating a stable bottom form for later lifts of foam.
7. Polyurethane foam will be placed and will extend to the top of the remaining steel casing and be a minimum of twice the diameter of the vent in thickness. For a 7-feet diameter shaft, the foam will be a minimum of 14-feet thick.
8. The 18-inch thick reinforced concrete cap will be placed on top of the foam and 4-feet below the ground surface. This cap will extend 4-feet beyond the diameter of the vent shaft.
9. The surface area above the concrete cap will be backfilled with soil and graded to drain away from the vent shaft.





Reinforced Concrete Cap

Vent Casing

Soil Cover

Energy Fuels Resources (USA) Inc.

REVISIONS		Project: Daneros Mine	
Date	By	County: San Juan	State: Utah
10/22/14	RE	Location:	

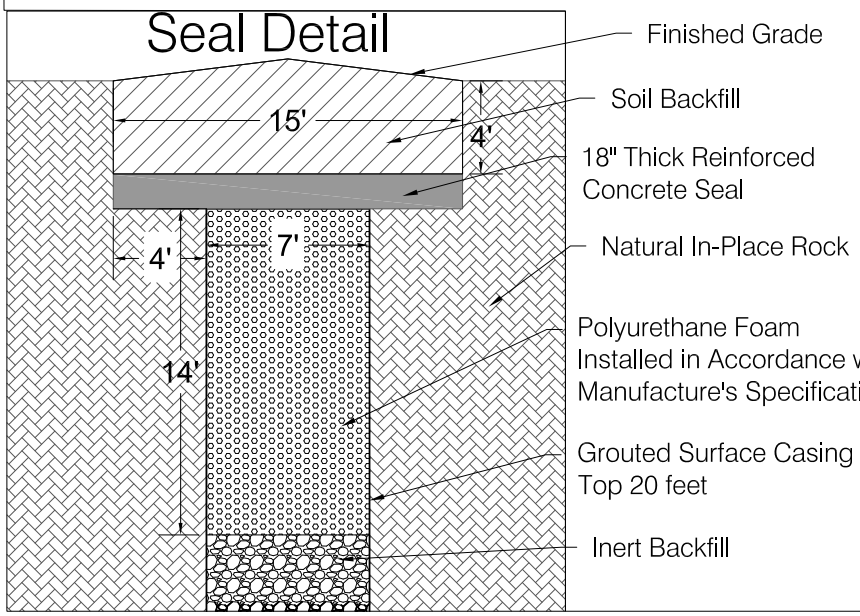
Figure 4-1
Vent Closure Design
Cased Vent Shafts

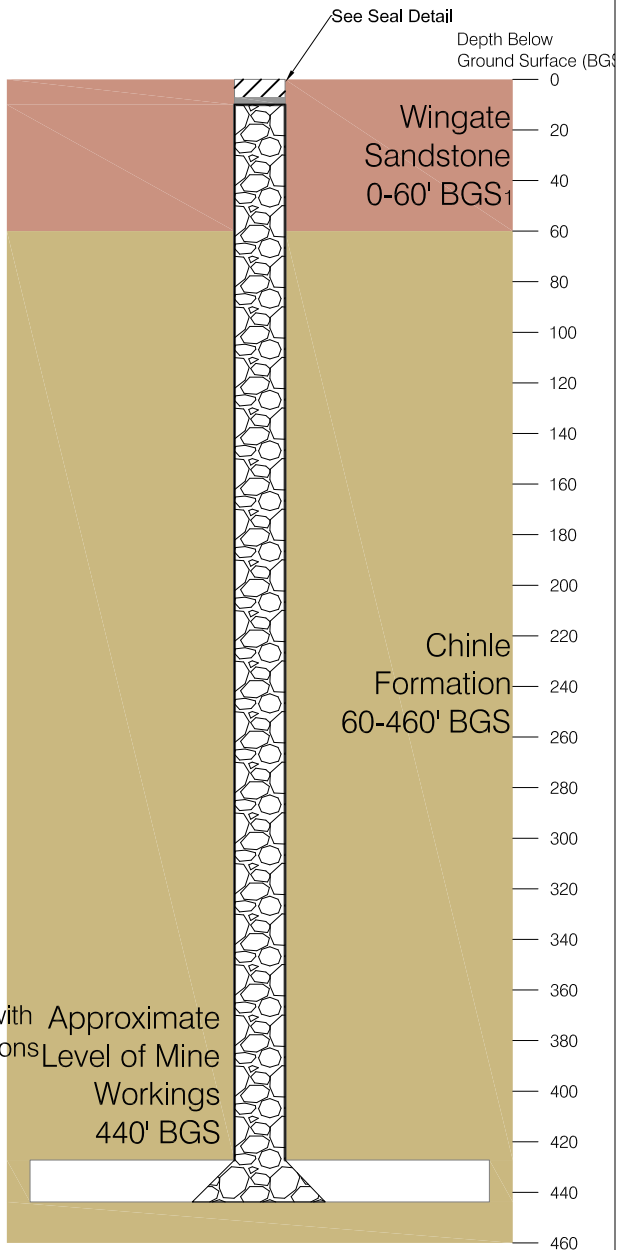
Author: RJE | Date: 10/24/14 | Drafted By:

s:\source\usa\ut\daneros\maps\vent closure design\vent closure design.dwg uncased vents 4-2 rellis

Notes:

1. The Wingate Sanstone varies between 0 feet and greater than 1000 feet thick in the area of the Daneros Mine.
2. The 2 existing vents are 7 feet in diameter and are cased. Future vents are expected to be 7 feet in diameter.All vents will be cased for the top 20-feet.
3. The concrete foundation for the vent shroud will be broken and placed within the vent.
4. The vent casing will be removed to 5.5-feet below ground surface.
5. Approximately 3-inches of surface soil around the vent will be placed within the vent.
6. During reclamation of an uncased vent shaft, inert material will be used to backfill the vent and will extend from the mine workings to the base of the foam plug. This backfill will serve as the bottom form for the foam.
7. Polyurethane foam will be placed on top of the backfill and will extend to the top of the remaining steel casing and be a minimum of twice the diameter of the vent in thickness. For a 7-feet diameter shaft, the foam will be a minimum of 14-feet thick.
8. The 18-inch thick reinforced concrete cap will be placed on top of the foam and 4-feet below the ground surface. This cap will extend 4-feet beyond the diameter of the vent shaft.
9. The surface area above the concrete cap will be backfilled with soil and graded to drain away from the vent shaft.





Reinforced Concrete Cap

Inert Material

Soil Cover

Energy Fuels Resources (USA) Inc.

REVISIONS		Project: Daneros Mine	
Date	By	County: San Juan	State: Utah
10/22/14	RE	Location:	

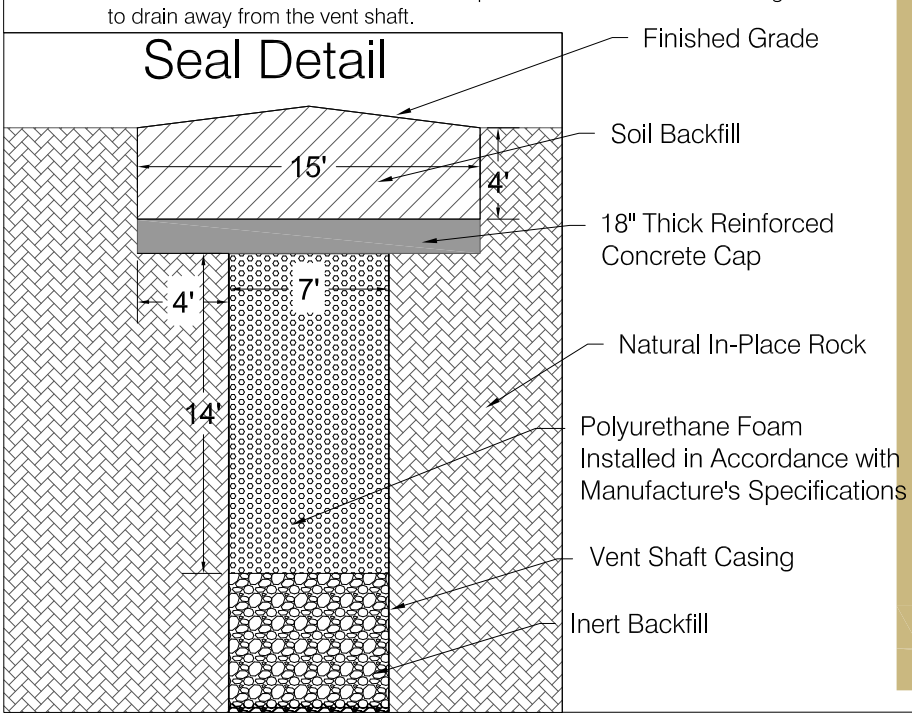
Figure 4-2
Vent Closure Design
Uncased Vent Shafts

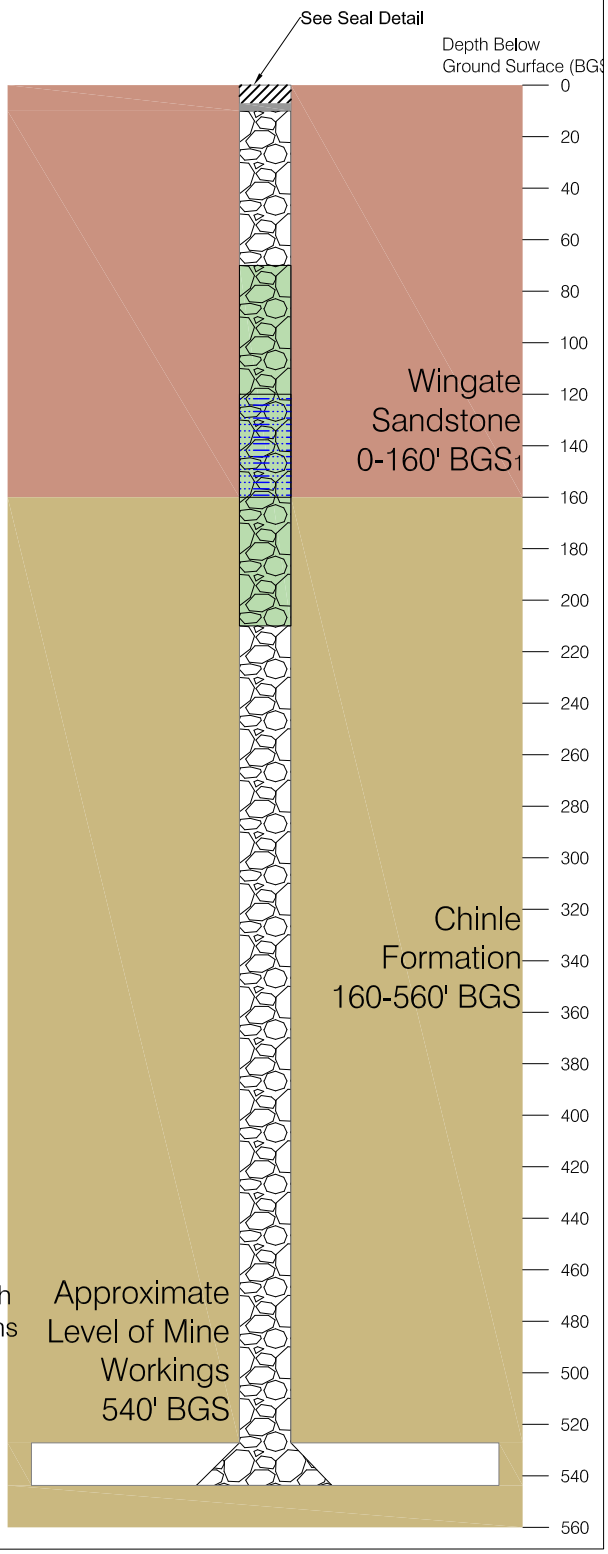
Author: RJE | Date: 10/24/14 | Drafted By:

s:\source\usa\ut\daneros\maps\vent closure design\vent closure design.dwg cased vents w water 4-3 rellis

Notes:

1. The Wingate Sanstone varies between 0 feet and greater than 1000 feet thick in the area of the Daneros Mine.
2. The 2 existing vents are 7 feet in diameter and are cased. Future vents are expected to be 7 feet in diameter.All vents will be cased for the top 20-feet.
3. New vents that encounter groundwater will be steel cased and will be grouted 50-feet above and below the perched aquifer.
4. The concrete foundation for the vent fan shroud will be broken and placed within the vent shaft.
5. Approximately 3-inches of surface soil around the vent will be placed within the vent.
6. The vent casing will be removed to 5.5-feet below ground surface
7. During closure of a vent shaft that intercepted groundwater, the shaft will be backfilled and a low permeability seal will be placed inside the casing extending 50-feet above and below any groundwater bearing zones. The low permeability seal will consist of a mixture of 10% bentonite and 90% inert material.
8. Polyurethane foam will be placed on top of the backfill and will extend to the top of the remaining steel casing and be a minimum of twice the diameter of the vent in thickness. For a 7-feet diameter shaft, the foam will be a minimum of 14-feet thick.
9. The 18-inch thick reinforced concrete cap will be placed on top of the foam and 4-feet below the ground surface. This cap will extend 4-feet beyond the diameter of the vent shaft.
10. The surface area above the concrete cap will be backfilled with soil and graded to drain away from the vent shaft.





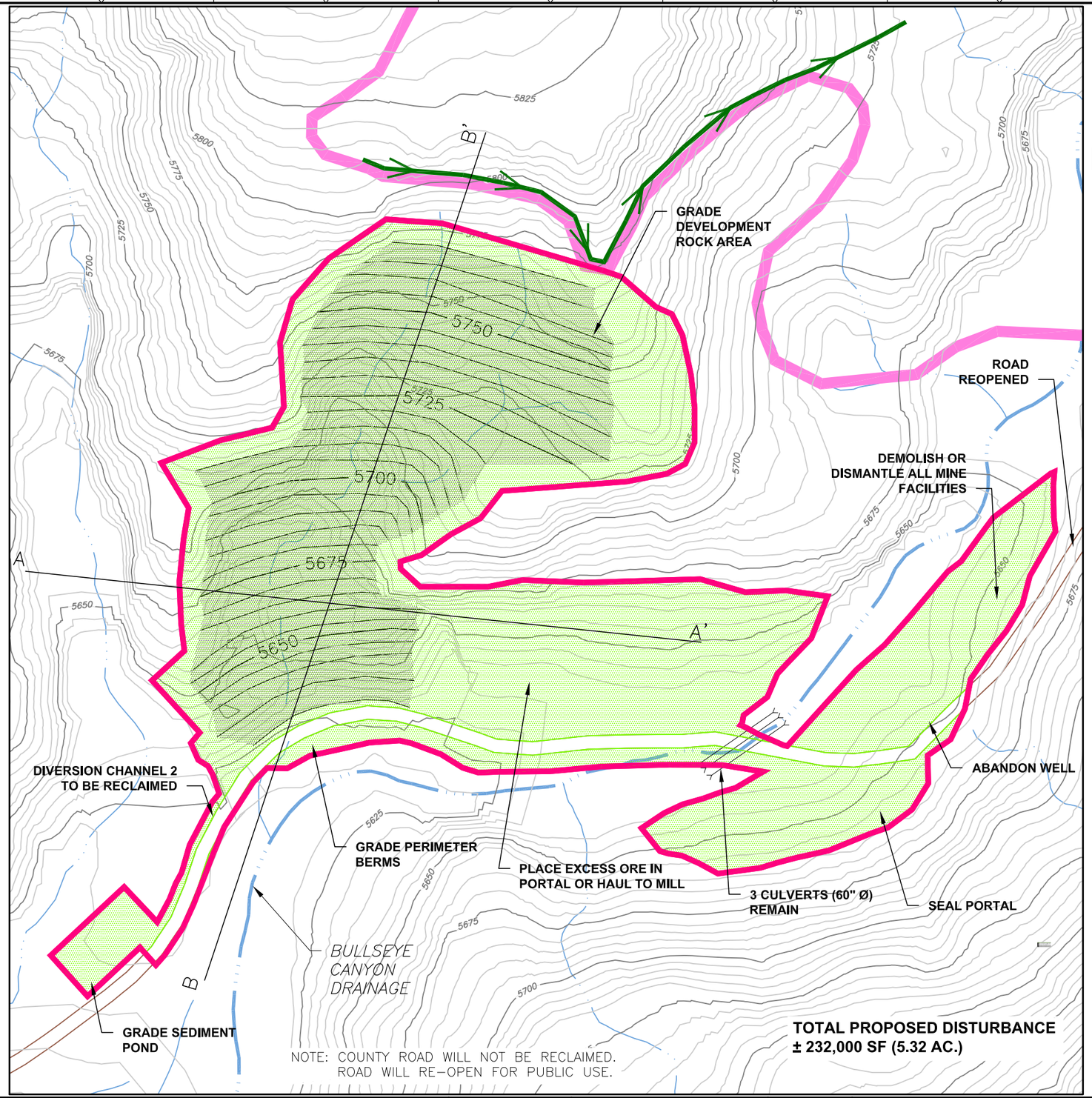
Reinforced Concrete Cap
Vent Casing
Soil Backfill
Perched Aquifer
Low Permeability Seal
Inert Material

Energy Fuels Resources (USA) Inc.

REVISIONS		Project: Daneros Mine	
Date	By	County: San Juan	State: Utah
10/22/14	RE	Location:	

Figure 4-3
Vent Closure Design
Cased Vent Shafts With Groundwater Intercept

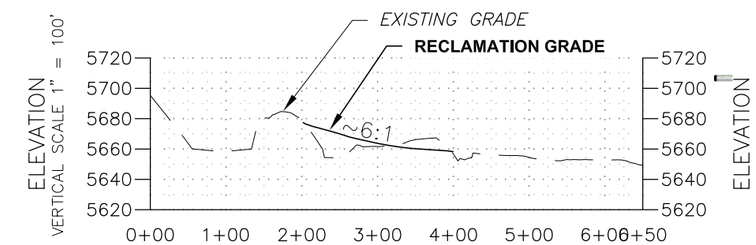
Author: RJE | Date: 10/24/14 | Drafted By:



N

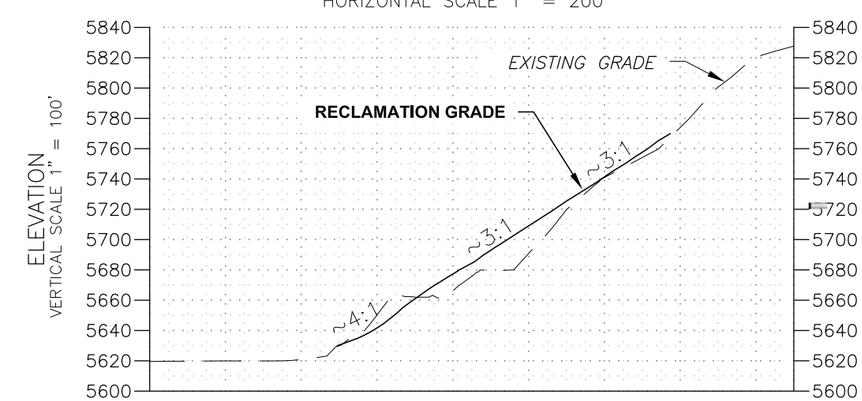
LEGEND

- EXISTING EXPLORATION DRILLING ROAD
- DIVERSION CHANNEL 1
- EXISTING DRAINAGE
- PROPOSED LIMIT OF DISTURBED AREA
- TOPSOIL, RIP, AND SEED
- DELETERIOUS MATERIAL STORAGE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- PROPOSED CONTOUR INTERVAL (25 FT.)
- PROPOSED CONTOUR INTERVAL (5 FT.)
- ROAD



TOWNSHIP 37S
RANGE 16E
SECTION 6

SECTION A – A'
HORIZONTAL SCALE 1" = 200'



SECTION B – B'
HORIZONTAL SCALE 1" = 200'

0 100' 200'
SCALE IN FEET

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

CDM Smith
CDM Federal Programs Corporation
555 17th Street, Suite 1100
Denver, CO 80202
Tel: (303) 383-2300

ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

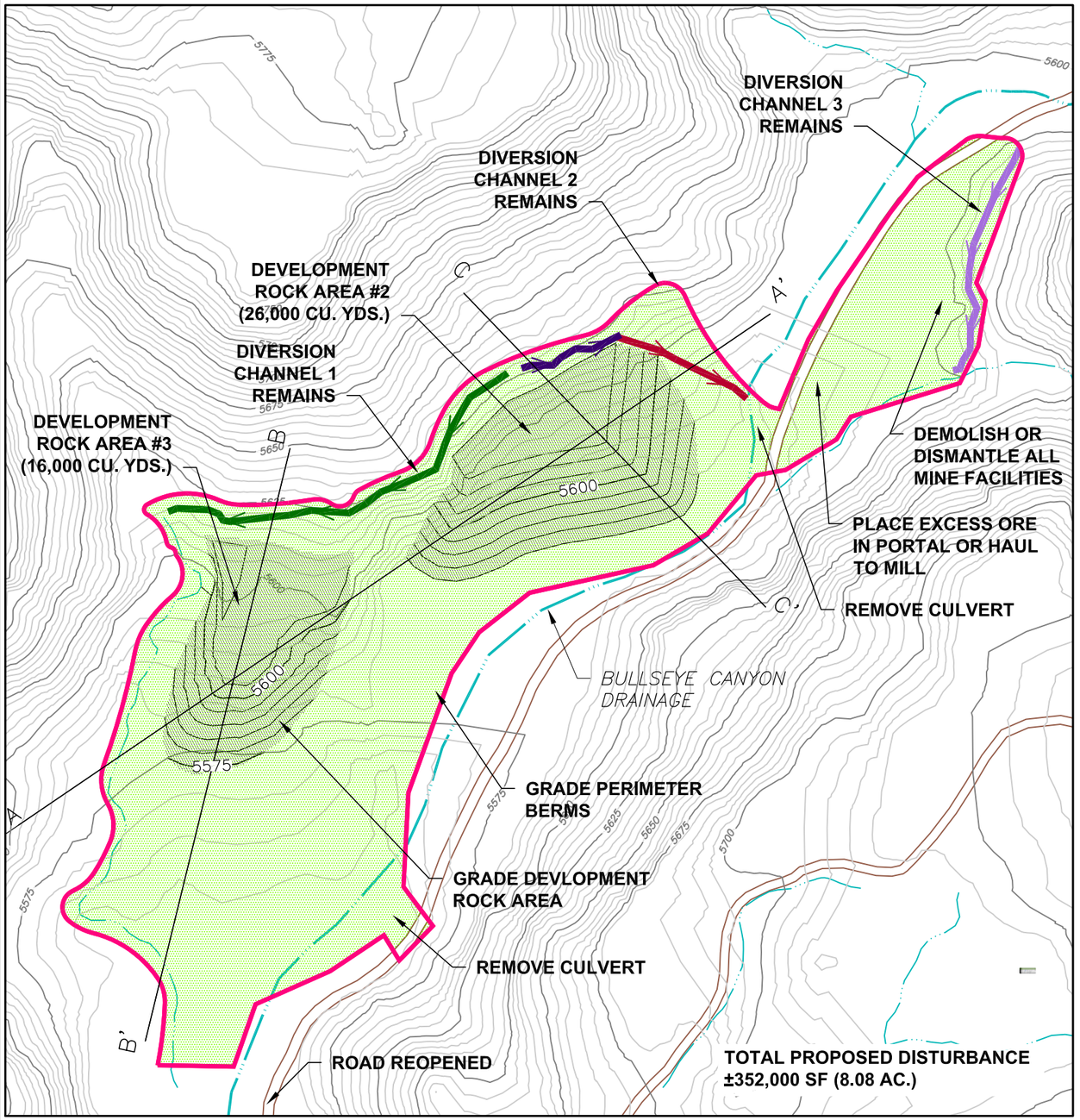
DANEROS MINE SITE

RECLAMATION
DANEROS PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 4-3a
FIGURE NO.
4-4a

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 4-3a



NOTE: COUNTY ROAD WILL NOT BE RECLAIMED. ROAD WILL RE-OPEN FOR PUBLIC USE.

0 150' 200'

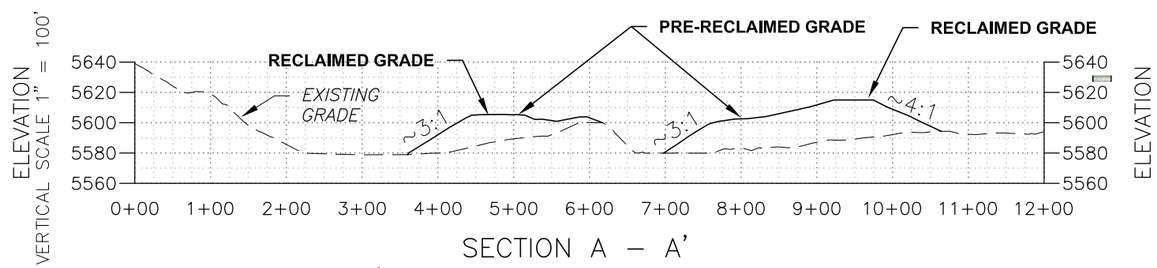
SCALE IN FEET

N

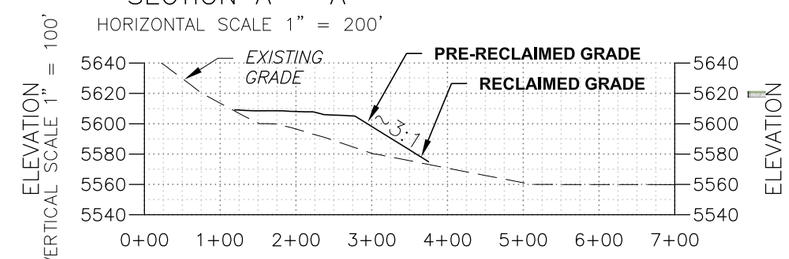
LEGEND

- PROPOSED LIMIT OF DISTURBED AREA
- PROPOSED DIVERSION CHANNEL 1
- PROPOSED DIVERSION CHANNEL 2A
- PROPOSED DIVERSION CHANNEL 2B
- PROPOSED DIVERSION CHANNEL 3
- TOPSOIL, RIP, AND SEED
- DELETERIOUS MATERIAL STORAGE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- PROPOSED CONTOUR INTERVAL (25 FT.)
- PROPOSED CONTOUR INTERVAL (5 FT.)
- ROAD

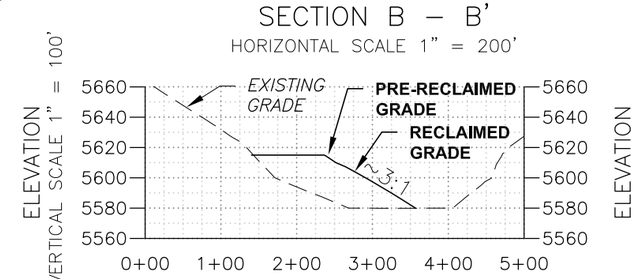
TOWNSHIP 37S
RANGE 16E
SECTION 6



SECTION A – A'
HORIZONTAL SCALE 1" = 200'



SECTION B – B'
HORIZONTAL SCALE 1" = 200'



SECTION C – C'
HORIZONTAL SCALE 1" = 200'

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

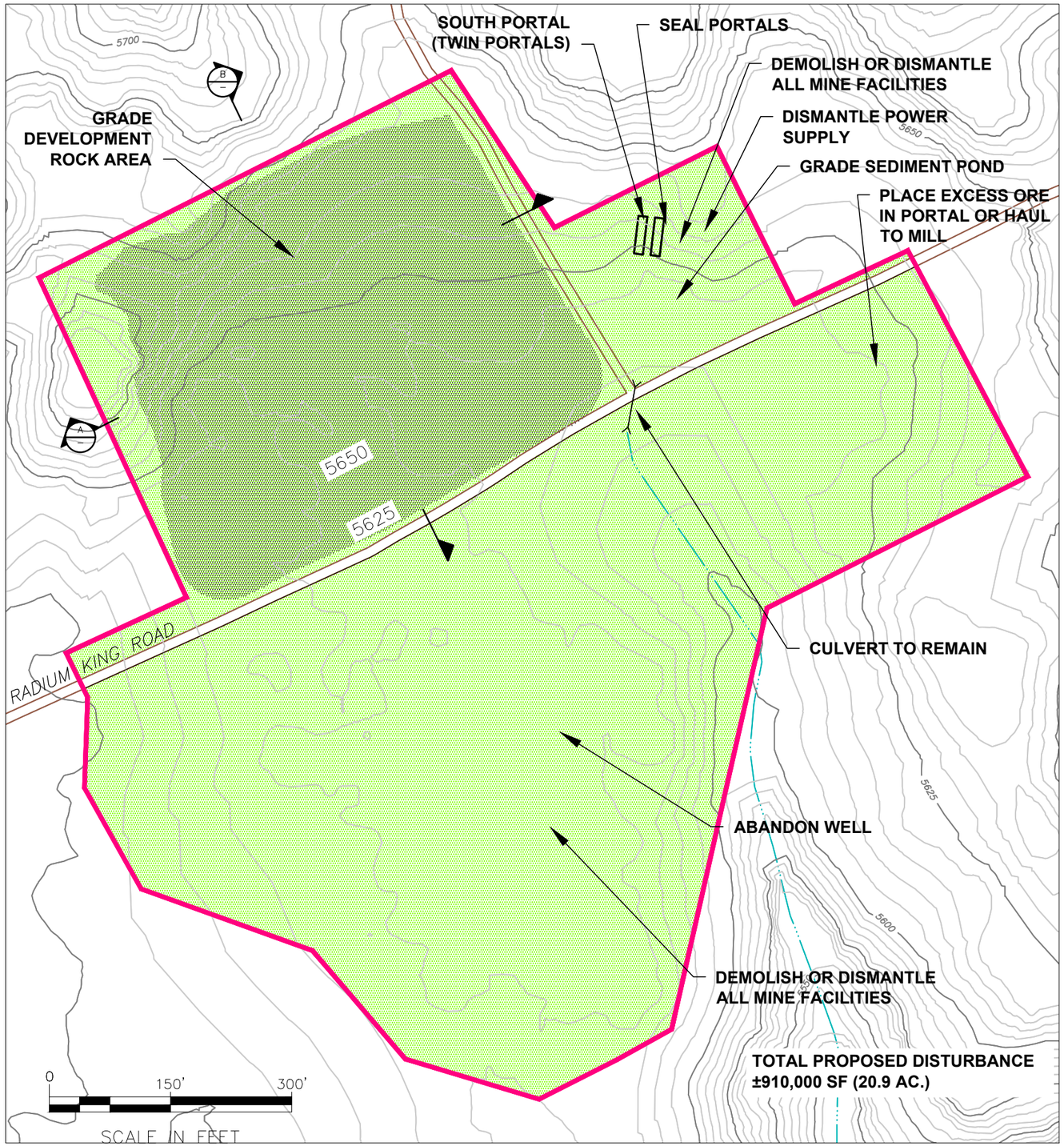
RECLAMATION
BULLSEYE PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 4-3b

FIGURE NO.
4-4b

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\DANEROS MINE\CIVL-PO\Figure 4-3b

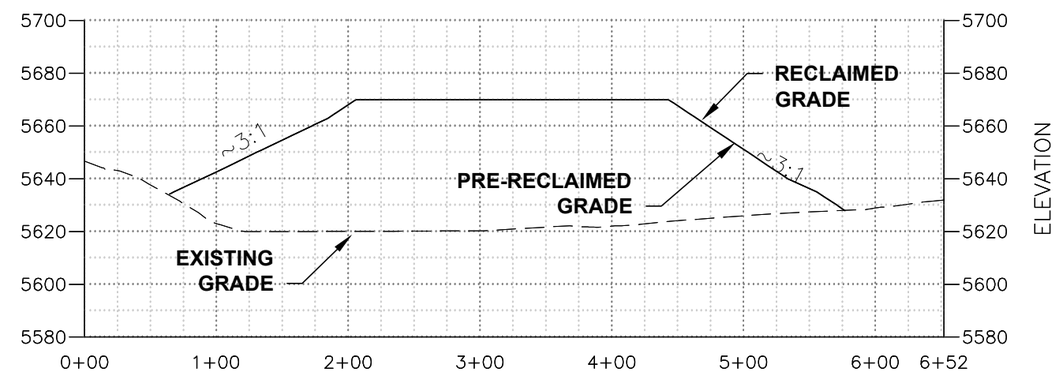


N

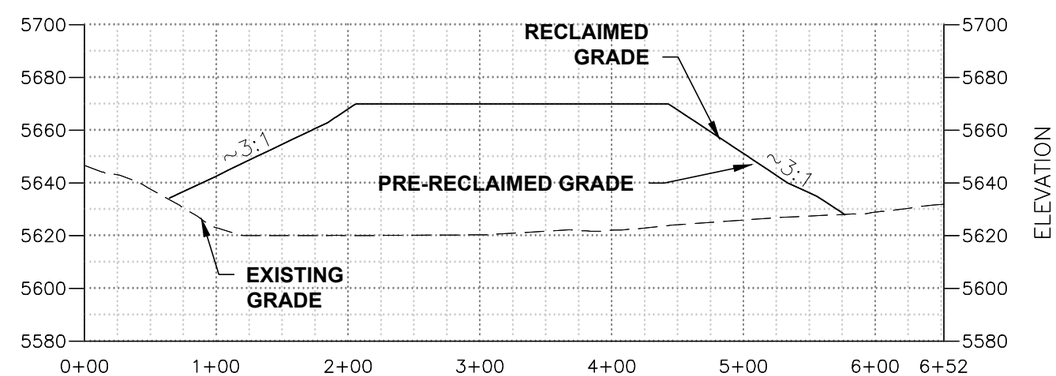
TOWNSHIP 37S
RANGE 16E
SECTION 18

LEGEND

- BERM — PROPOSED FEATURE CALLOUT
- PROPOSED LIMIT OF DISTURBED AREA
- EXISTING DRAINAGE
- TOPSOIL, RIP AND SEED
- DELETERIOUS MATERIAL STORAGE
- EXISTING CONTOUR INTERVAL (25 FT.)
- EXISTING CONTOUR INTERVAL (5 FT.)
- PROPOSED CONTOUR INTERVAL (25 FT.)
- PROPOSED CONTOUR INTERVAL (5 FT.)
- ROAD



SECTION A



SECTION B

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
DRAWN BY: J. HUMPHREY
SHEET CHK'D BY: T. BRAGDON
CROSS CHK'D BY:
APPROVED BY:
DATE: SEPTEMBER 2013

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ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

RECLAMATION
SOUTH PORTAL AREA

PROJECT NO. 64986
FILE NAME: FIGURE 4-3c

FIGURE NO.
4-4c

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986-Denison Mines\Daneros Mine\CIVL-PO\Figure 4-3c

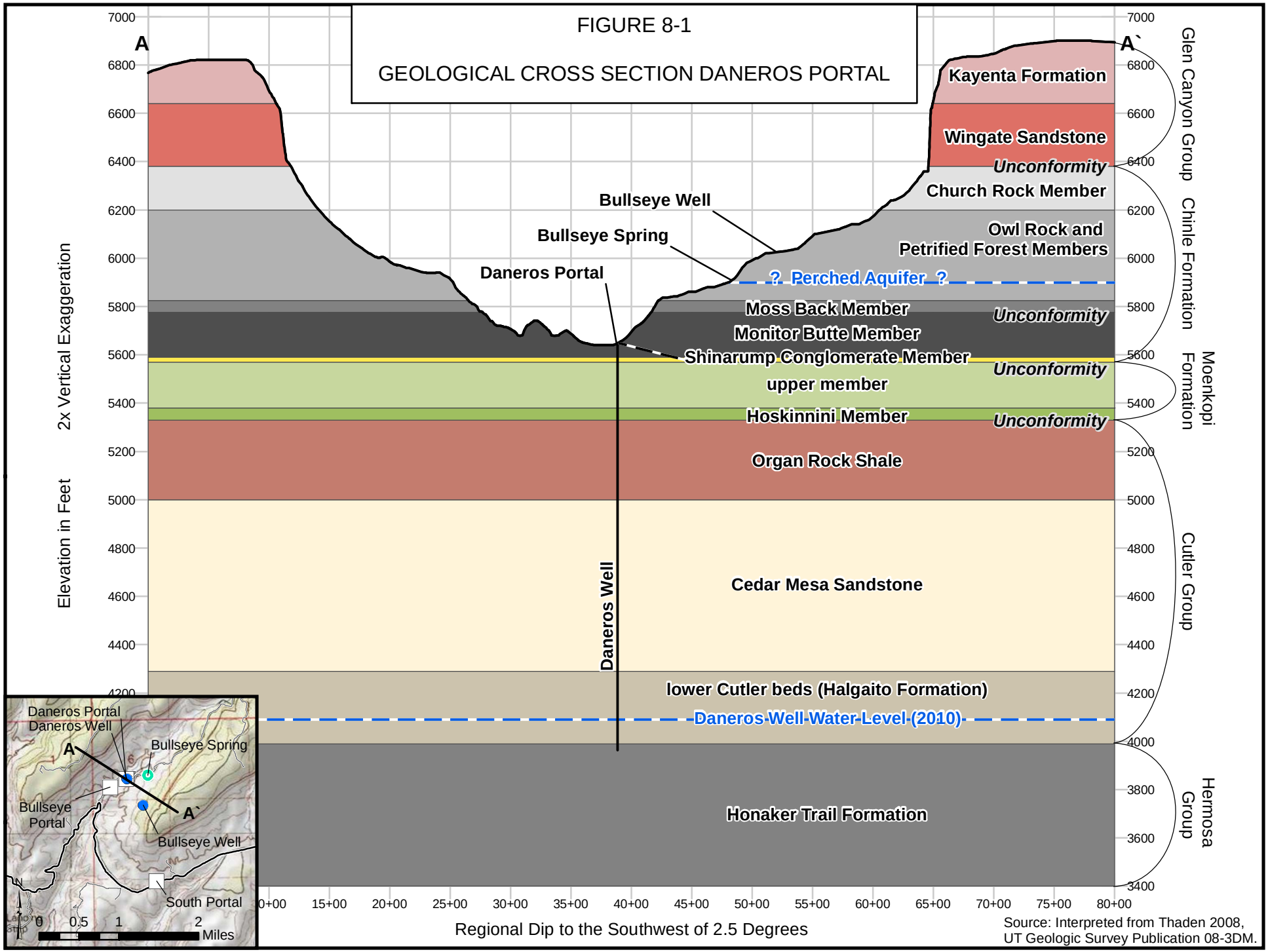
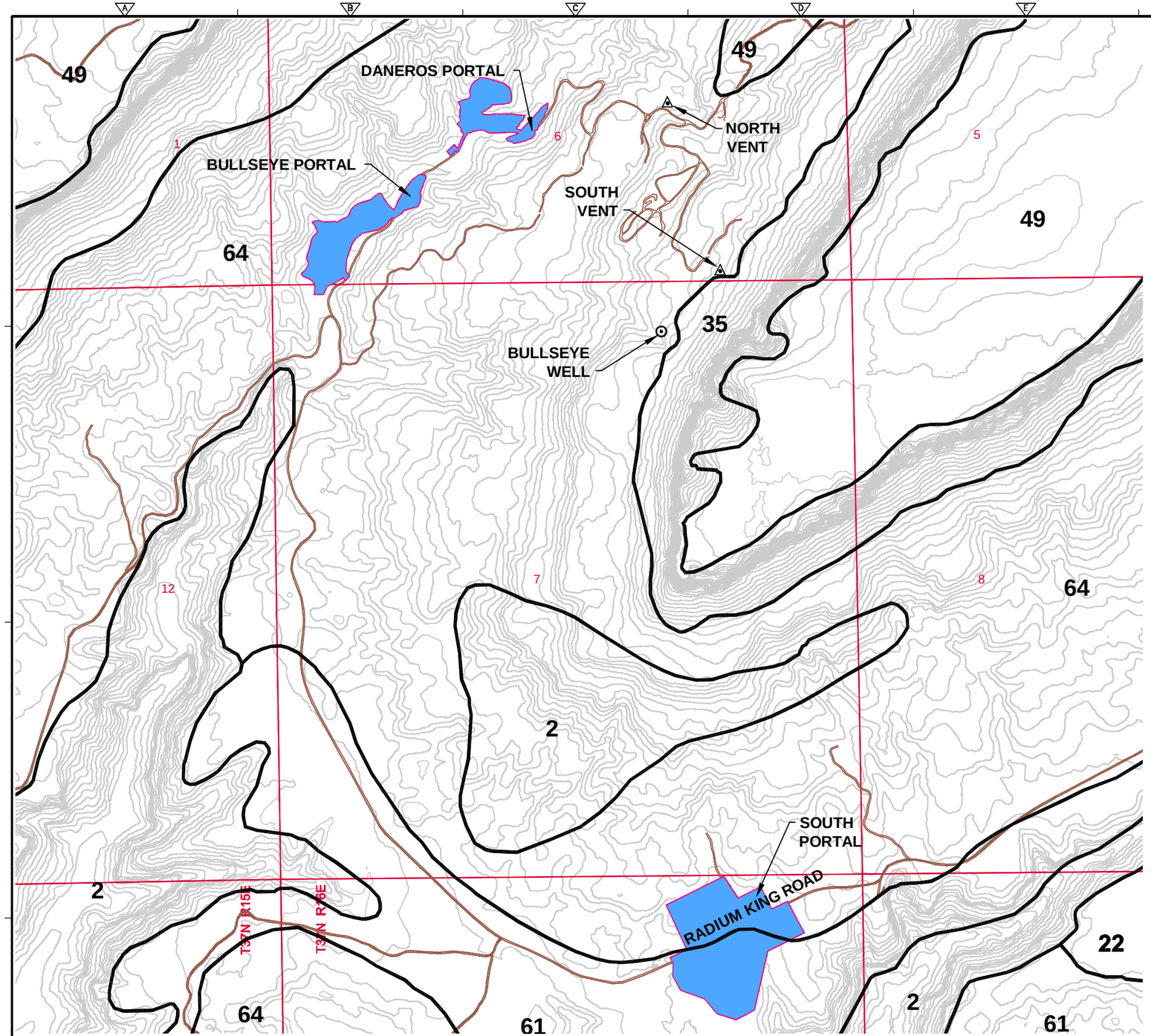
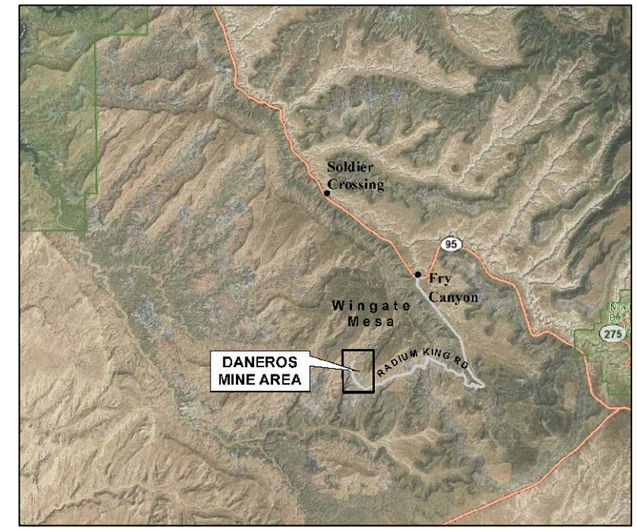


FIGURE 8-1
GEOLOGICAL CROSS SECTION DANEROS PORTAL
A
A`
Elevation in Feet
2x Vertical Exaggeration
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
Kayenta Formation
Wingate Sandstone
Unconformity
Church Rock Member
Owl Rock and
Petrified Forest Members
? Perched Aquifer ?
Moss Back Member
Unconformity
Monitor Butte Member
Shinarump Conglomerate Member
Unconformity
upper member
Hoskinnini Member
Unconformity
Organ Rock Shale
Cedar Mesa Sandstone
lower Cutler beds (Halgaito Formation)
Daneros Well Water Level (2010)
Honaker Trail Formation
Bullseye Well
Bullseye Spring
Daneros Portal
Daneros Well
Glen Canyon Group
Chinle Formation
Moenkopi Formation
Cutler Group
Hermosa Group
0+00
15+00
20+00
25+00
30+00
35+00
40+00
45+00
50+00
55+00
60+00
65+00
70+00
75+00
80+00
Regional Dip to the Southwest of 2.5 Degrees
Source: Interpreted from Thaden 2008,
UT Geologic Survey Publication 08-3DM.
Daneros Portal
Daneros Well
Bullseye Spring
Bullseye Portal
Bullseye Well
South Portal
0
0.5
1
2
Miles
S:\Source\UT\Daneros\Maps\POO Maps\Conceptual Geologic Cross Section.mxd / 1/19/2016 9:18:35 AM by areither



0 500' 1000'

SCALE IN FEET



VICINITY MAP
NTS

LEGEND

- ROAD
- PROPOSED LIMIT OF DISTURBED AREA
- VENT SHAFT
- EXISTING CONTOUR INTERVAL (25 FT.)
- SECTION LINE
- WELL
- NRCS SOIL BOUNDARY

MAP UNIT	
NUMBER	DESCRIPTION
2	BADLAND–ROCK OUTCROP
22	MIDO–ROCK OUTCROP–ARCHES COMPLEX
35	MYTON FAMILY–SKOS–ROCK OUTCROP ASSOCIATION
49	RIZNO–ROCK OUTCROP COMPLEX
61	SKOS–ROCK OUTCROP COMPLEX
64	STRYCH–SKOS–BADLAND COMPLEX

REV. NO.	DATE	DRWN	CHKD	REMARKS

DESIGNED BY: D. WINTLE
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ENERGY FUELS RESOURCES (USA) INC
SAN JUAN COUNTY, UTAH

DANEROS MINE SITE

NRCS SOIL MAP

PROJECT NO. 64986
FILE NAME: FIGURE 8–2
FIGURE NO.
8-2

PRELIMINARY DESIGN - NOT FOR CONSTRUCTION

X:\64986–Denison Mines\Daneros Mines\DANEROS MINE\CIVIL–PO\Figure 8–2