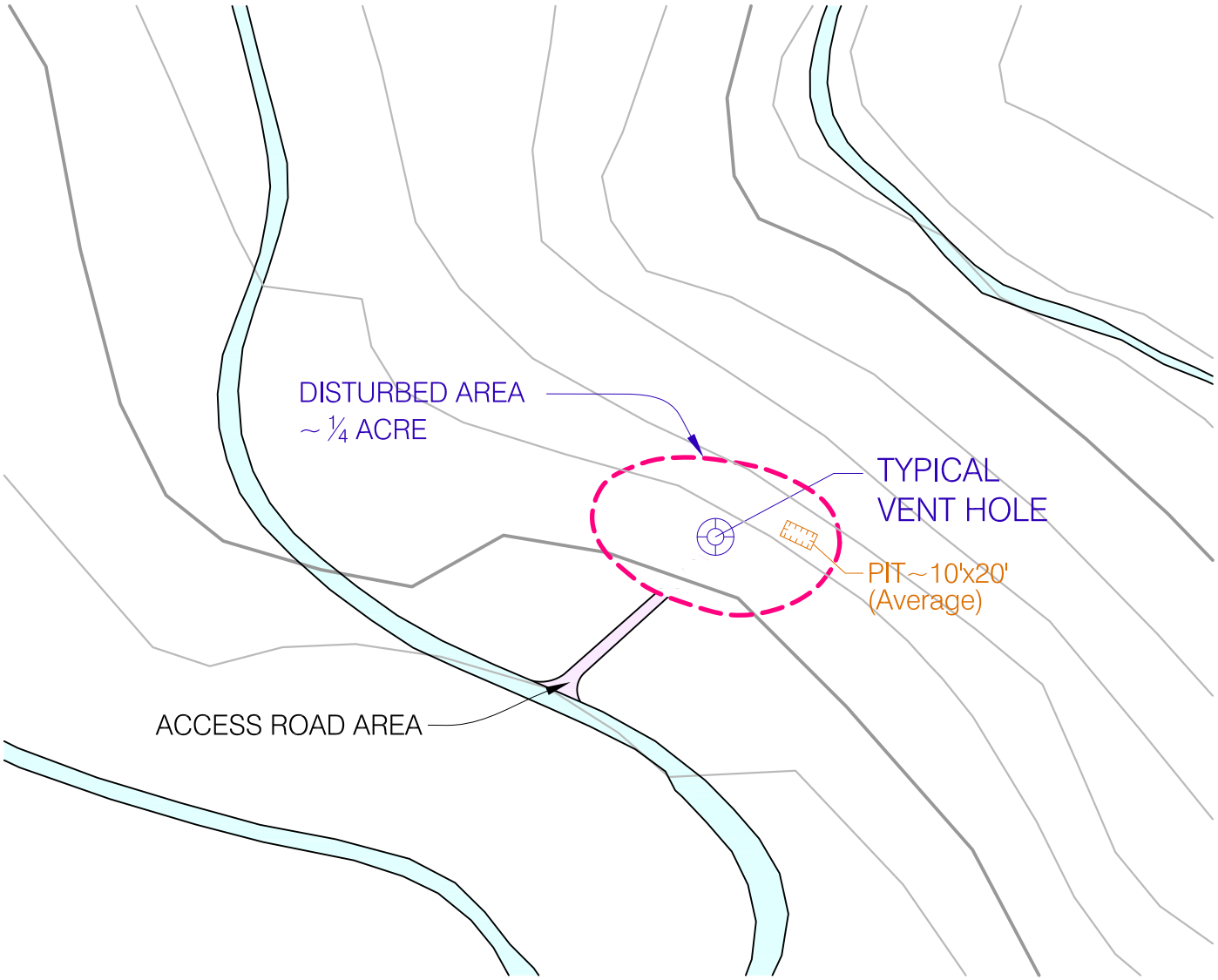
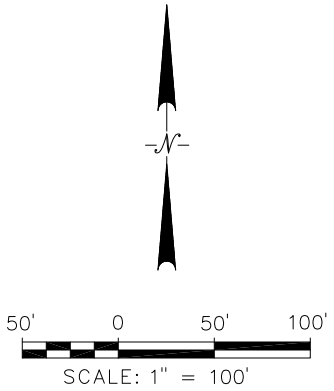


NOTES:

1. DISTURBED AREAS THAT WILL NOT BE USED FOR ROUTINE ACCESS TO THE VENT HOLE, WILL BE RECLAIMED FOLLOWING DISTURBANCE ACTIVITIES.

2. A BLM, USFS, & UDOGM APPROVED SEED MIX WILL BE HAND-BROADCAST TO RECLAIMED AREAS.

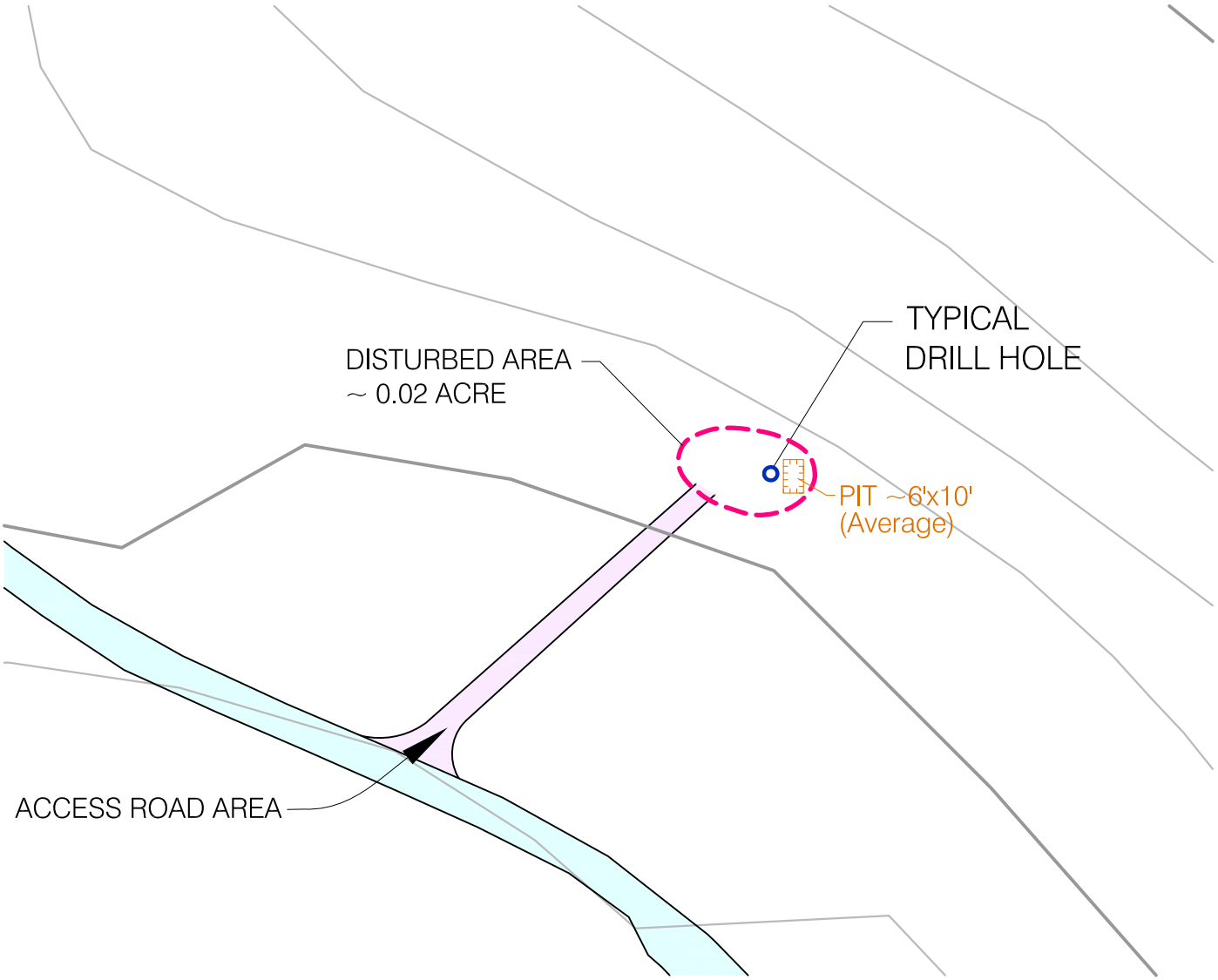


LEGEND

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

Denison Mines (USA) Corp.	
Project	La Sal Complex
REVISIONS	County: San Juan; State: Utah
Date / By	Location: T 28–29 S, R 23–25 E
	FIGURE 3-2
	LA SAL MINES
	TYPICAL VENT HOLE AREA OF DISTURBANCE
	Scale: N/A; Date: April, 2010
	Author: unknown; Drafted By: dls

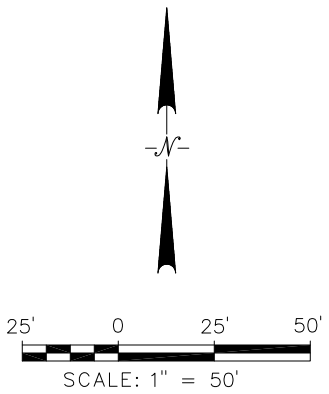
W:\USA\Utah\LaSal Complex\Dwg\Typical VH-DH Disturbance.dwg Vent Hole dsledd



NOTES:

1. DISTURBED AREAS THAT WILL NOT BE USED FOR ROUTINE ACCESS TO THE DRILL HOLE, WILL BE RECLAIMED FOLLOWING DISTURBANCE ACTIVITIES.

2. A BLM, USFS, & UDOGM APPROVED SEED MIX WILL BE HAND-BROADCAST TO RECLAIMED AREAS.

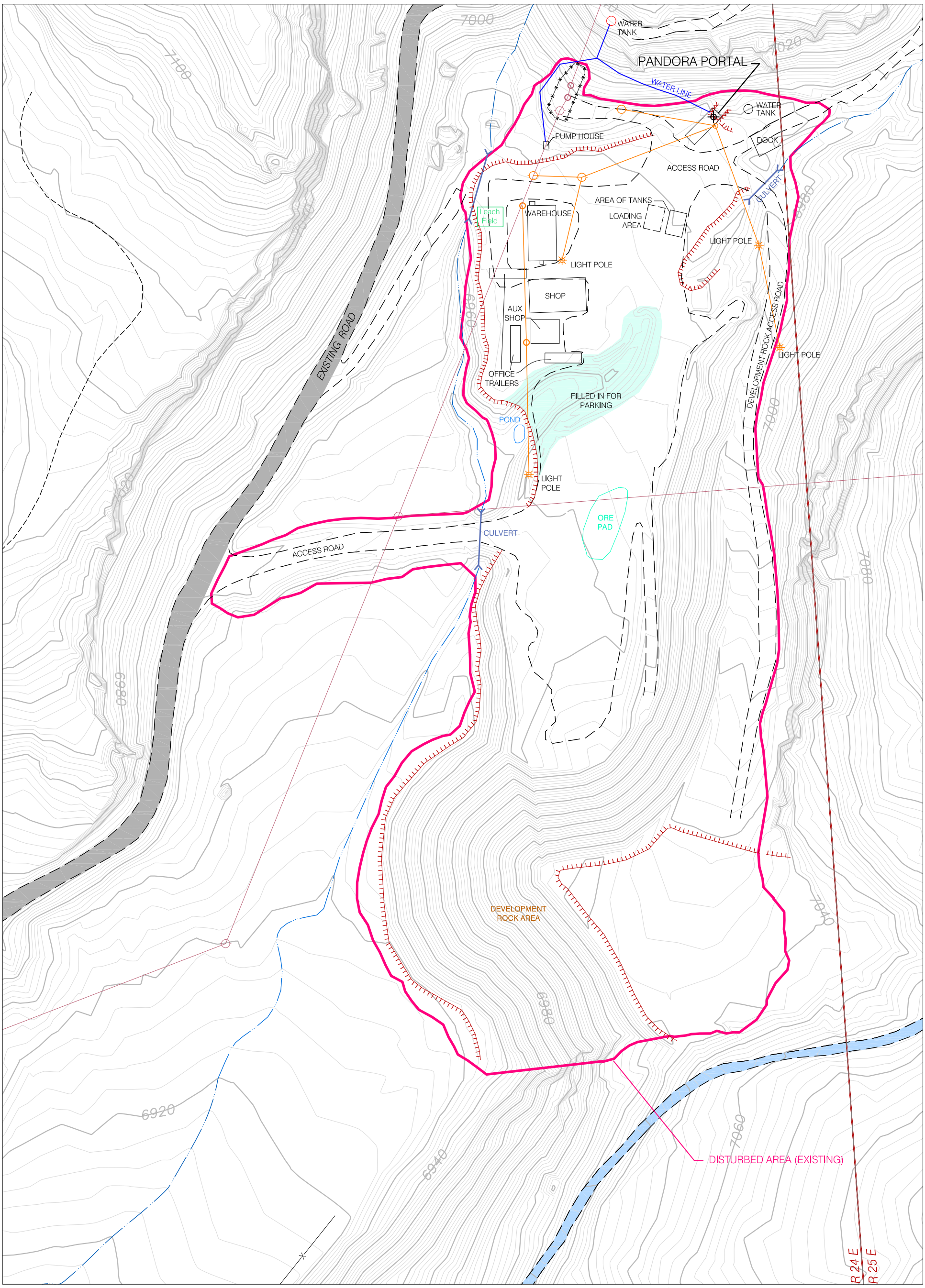


LEGEND

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

Denison Mines (USA) Corp.		
Project	La Sal Complex	
REVISIONS	County: San Juan	State: Utah
Date / By	Location: T 28–29 S, R 23–25 E	
	FIGURE 3-3	
	LA SAL MINES	
	TYPICAL DRILL HOLE AREA OF DISTURBANCE	
	Scale: N/A	Date: April, 2010
	Author: unknown	Drafted By: dls

W:\USA\Utah\LaSal Complex\Dwg\Typical VH-DH Disturbance.dwg Drill Hole dsledd



Utah State Plane Coordinate System
South Zone, NAD 83

LEGEND

- Drainage Berm / Catchment
- Existing Permanent Roads
- Existing Roads
- Diversion Ditch or Channel
- Disturbed Area
- Power Line and Pole (Denison)
- Power Line and Pole (Rocky Mountain)

N
W E
S

50 25 0 50 100

SCALE: 1" = 100'

Contour Interval = 2 Feet

Denison Mines (USA) Corp.

DENISON MINES

REVISIONS	
Date	By

Project: LA SAL COMPLEX

County: San Juan State: Utah

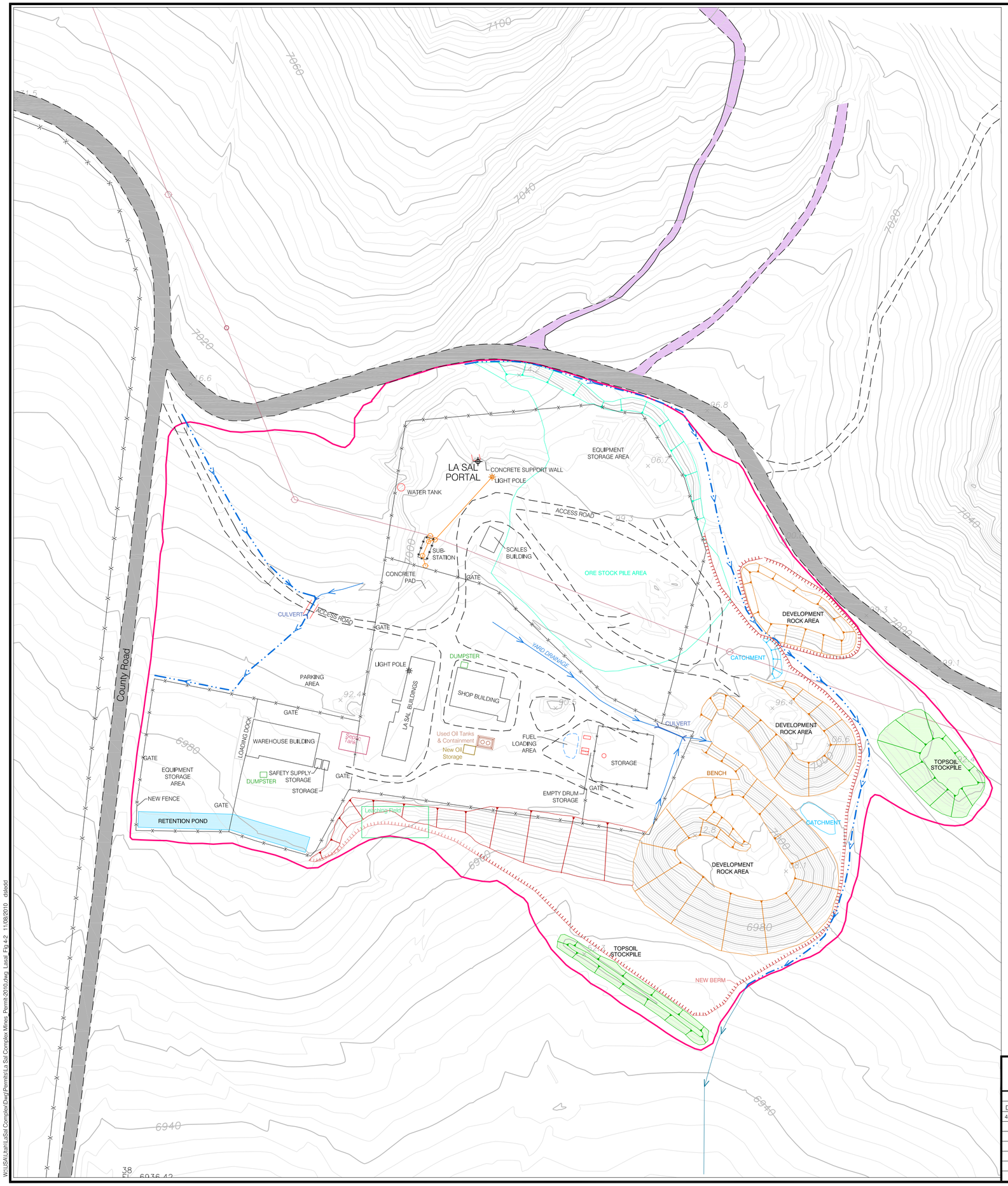
Location: Section 1, R 24 E & Section 6, R 25 E, T 29 S

FIGURE 4-1
EXISTING PANDORA MINE
SITE MAP

Author:

Drafted By: D. Sledd

W:\USA\Utah\LaSal Complex\Dwg\Permits\La Sal Complex Mines_Permit-2010.dwg Pandora-Fig 4-1 11/08/2010 dsledd



LEGEND

- Crest and Toe of Piles
- Drainage Berm / Catchment
- Access Roads
- Existing Permanent Roads
- Power Line and Pole (Denison)
- Power Line and Pole (Rocky Mountain)
- Diversion Ditch or Channel
- Diversion Channel (Grass-Lined)
- Fence
- Disturbed Area

N W E S

50 25 0 50 100
SCALE IN FEET

Contour Interval = 2 Feet
from Aerial Survel 2008

Utah State Plane Coordinate System
South Zone, NAD 83

Denison Mines (USA) Corp.

DENISON MINES

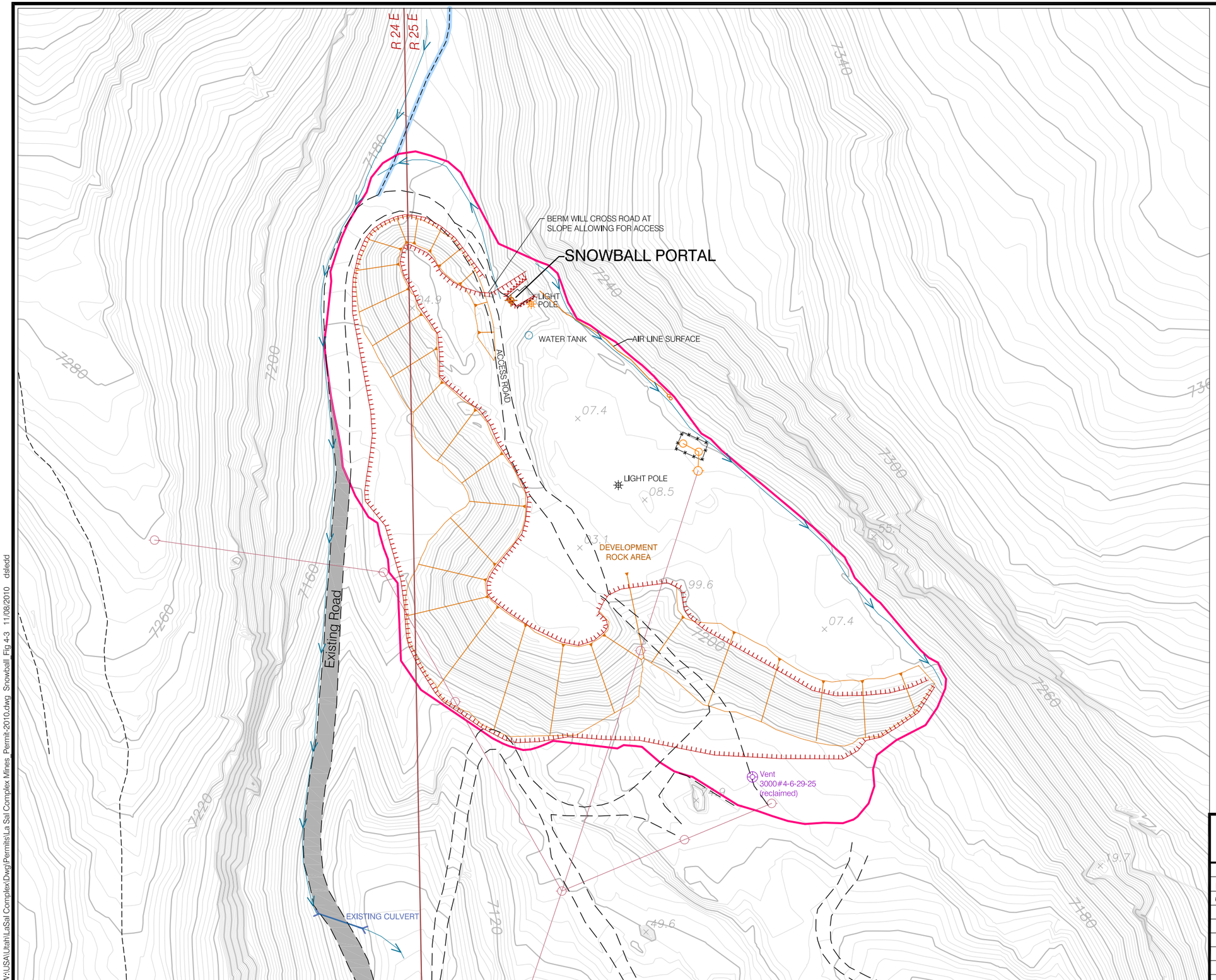
REVISIONS	
Date	By
4-15-10	dls

Project: La Sal / Snowball / Beaver Permit
County: San Juan
State: Utah
Location: Section 1, R 24 E, T 29 S

FIGURE 4-2
LA SAL MINE SITE MAP

Author: C. Woodward
Drafted By: D. Sledd

W:\USA\Utah\LaSal\Complex\Dwg\Permits\La Sal Complex Mines_Permit-2010.dwg Lasal_Fig 4-2 11/08/2010 dsledd



LEGEND

- Transformers
- Cribbing
- Crest and Toe of Piles
- Existing Permanent Roads
- Existing Roads
- Power Line and Pole (Denison)
- Power Line and Pole (Rocky Mountain)
- Existing Diversion Ditch or Channel
- Disturbed Area

N
W E
S

50 25 0 50 100
SCALE IN FEET

Contour Interval = 2 Feet
from Aerial Survey 2008

Utah State Plane Coordinate System
South Zone, NAD 83

Denison Mines (USA) Corp.

DENISON MINES

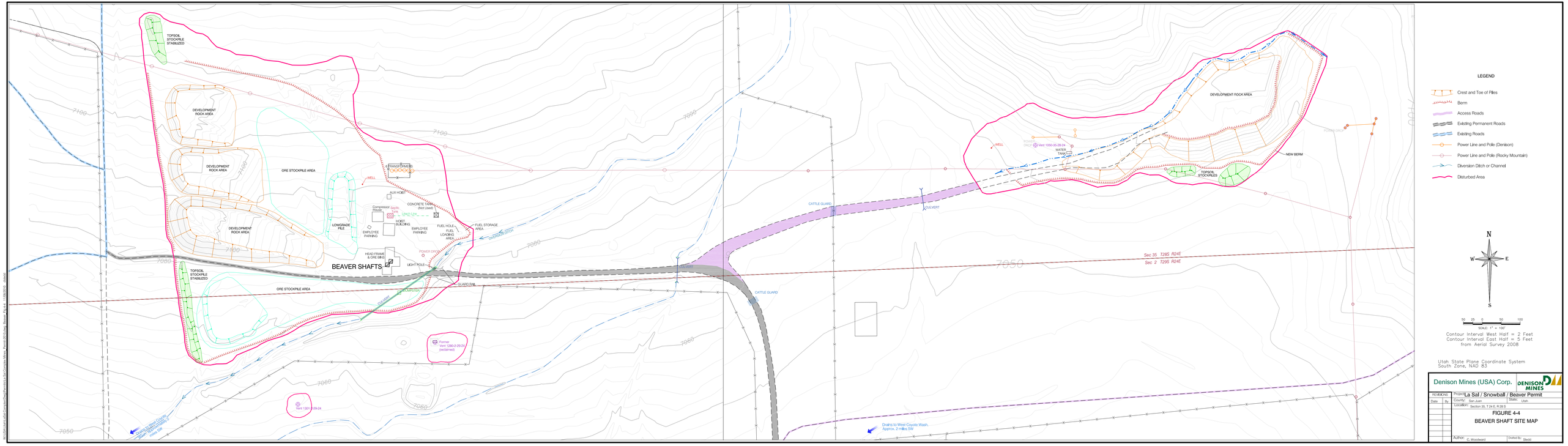
REVISIONS	
Date	By
6-30-09	dls
8-9-10	dls

Project: LA SAL COMPLEX
County: San Juan
State: Utah
Location: Section 1, R 24 E & Section 6, R 25 E, T 29 S

FIGURE 4-3
SNOWBALL MINE
SITE MAP

Author: D. Ferraro
Drafted By: Sledd

W:\USA\Utah\LaSal Complex\Dwg\Permits\La Sal Complex Mines_Permit-2010.dwg Snowball_Fig 4-3 11/08/2010 dsledd



LEGEND

- Crest and Toe of Piles
- Berm
- Access Roads
- Existing Permanent Roads
- Existing Roads
- Power Line and Pole (Denison)
- Power Line and Pole (Rocky Mountain)
- Diversion Ditch or Channel
- Disturbed Area

N
W E
S

50 25 0 50 100
SCALE: 1" = 100'

Contour Interval West Half = 2 Feet
Contour Interval East Half = 5 Feet
from Aerial Survey 2008

Utah State Plane Coordinate System
South Zone, NAD 83

Denison Mines (USA) Corp.

DENISON MINES

REVISIONS		Project: La Sal / Snowball / Beaver Permit	
Date	By	County: San Juan	State: Utah
		Location: Section 35, T 24 E, R 28 S	

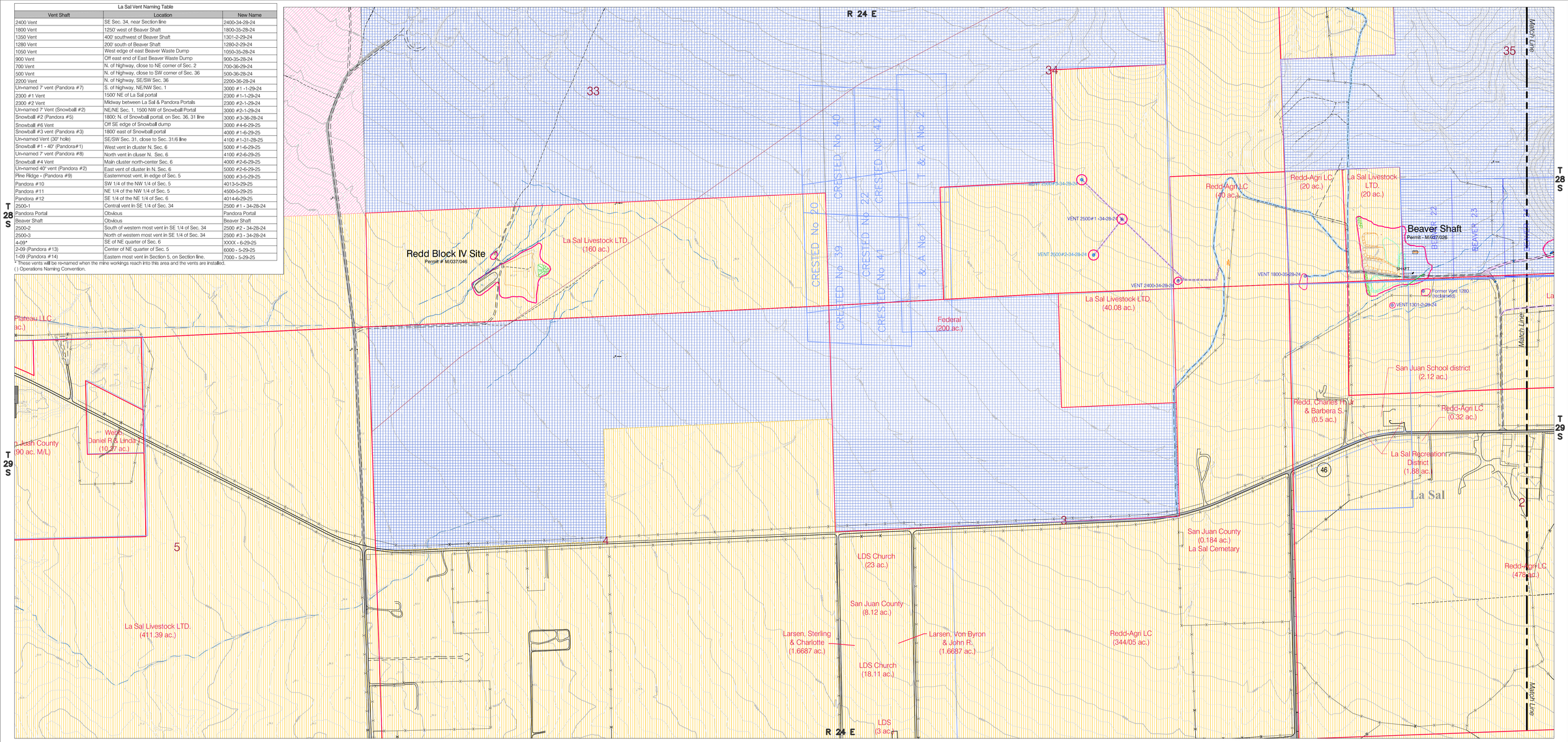
FIGURE 4-4

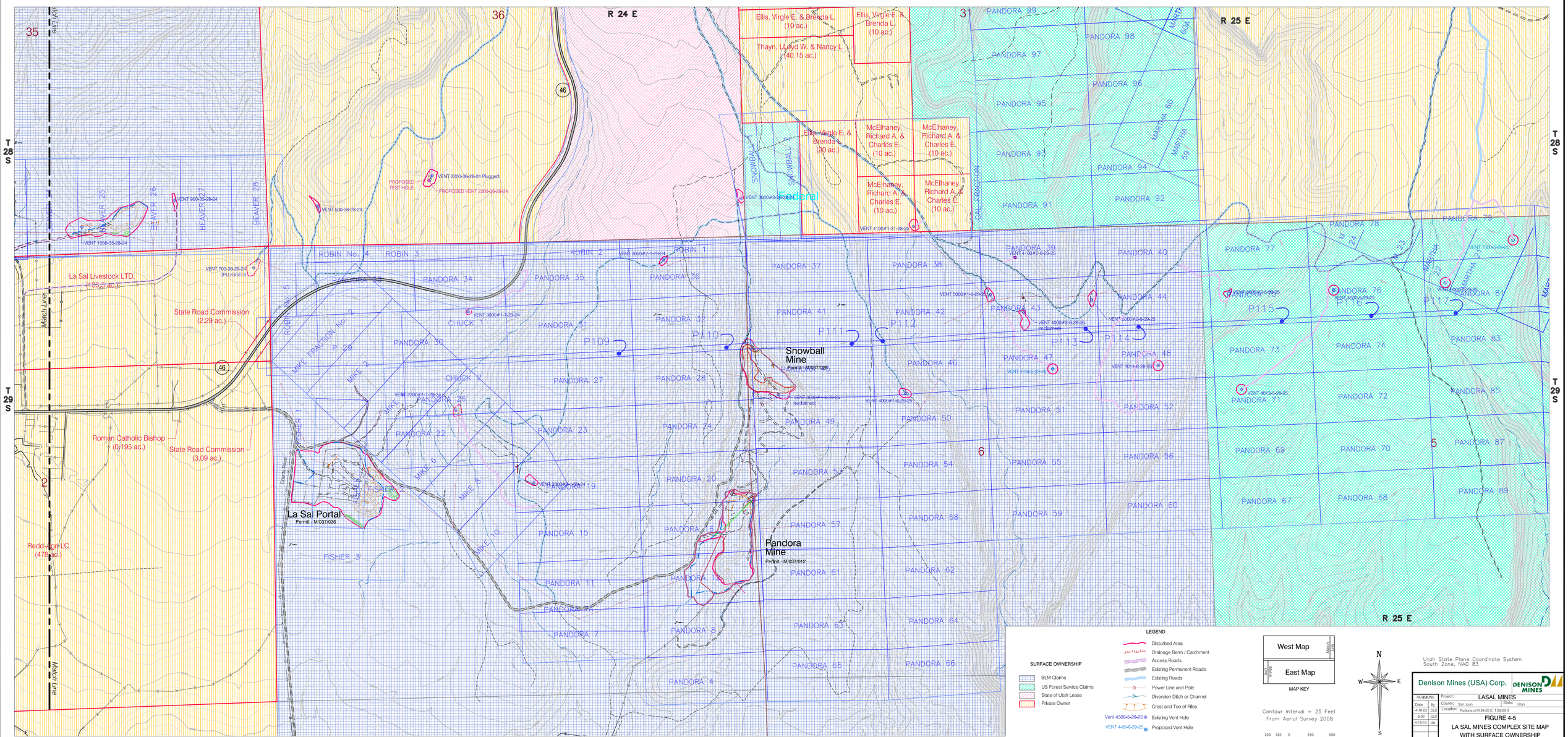
BEAVER SHAFT SITE MAP

Author: C. Woodward | Drafted By: Sledd

La Sal Vent Naming Table		
Vent Shaft	Location	New Name
2400 Vent	SE Sec. 34, near Section line	2400-34-28-24
1800 Vent	1250' west of Beaver Shaft	1800-35-28-24
1350 Vent	400' southwest of Beaver Shaft	1301-2-29-24
1280 Vent	200' south of Beaver Shaft	1280-2-29-24
1050 Vent	West edge of east Beaver Waste Dump	1050-35-28-24
900 Vent	Off east end of East Beaver Waste Dump	900-35-28-24
700 Vent	N. of Highway, close to NE corner of Sec. 2	700-36-29-24
500 Vent	N. of Highway, close to SW corner of Sec. 36	500-36-28-24
2200 Vent	N. of Highway, SE/SW Sec. 36	2200-36-28-24
Un-named 7' vent (Pandora #7)	S. of highway, NE/NW Sec. 1	3000 #1 -1-29-24
2300 #1 Vent	1500' NE of La Sal portal	2300 #1-1-29-24
2300 #2 Vent	Midway between La Sal & Pandora Portals	2300 #2-1-29-24
Un-named 7' Vent (Snowball #2)	NE/NE Sec. 1, 1500 NW of Snowball Portal	3000 #2-1-29-24
Snowball #2 (Pandora #5)	1800: N. of Snowball portal, on Sec. 36, 31 line	3000 #3-36-28-24
Snowball #6 Vent	Off SE edge of Snowball dump	3000 #4-6-29-25
Snowball #3 vent (Pandora #3)	1800' east of Snowball portal	4000 #1-6-29-25
Un-named Vent (30' hole)	SE/SW Sec. 31, close to Sec. 31/6 line	4100 #1-31-28-25
Snowball #1 - 40' (Pandora #1)	West vent in cluster N. Sec. 6	5000 #1-6-29-25
Un-named 7' vent (Pandora #8)	North vent in cluser N. Sec. 6	4100 #2-6-29-25
Snowball #4 Vent	Main cluster north-center Sec. 6	4000 #2-6-29-25
Un-named 40' vent (Pandora #2)	East vent of cluster in N. Sec. 6	5000 #2-6-29-25
Pine Ridge - (Pandora #9)	Easternmost vent, in edge of Sec. 5	5000 #3-5-29-25
Pandora #10	SW 1/4 of the NW 1/4 of Sec. 5	4013-5-29-25
Pandora #11	NE 1/4 of the NW 1/4 of Sec. 5	4500-5-29-25
Pandora #12	SE 1/4 of the NE 1/4 of Sec. 6	4014-6-29-25
2500-1	Central vent in SE 1/4 of Sec. 34	2500 #1 - 34-28-24
Pandora Portal	Obvious	Pandora Portal
Beaver Shaft	Obvious	Beaver Shaft
2500-2	South of western most vent in SE 1/4 of Sec. 34	2500 #2 - 34-28-24
2500-3	North of western most vent in SE 1/4 of Sec. 34	2500 #3 - 34-28-24
4-09*	SE of NE quarter of Sec. 6	XXXX - 6-29-25
2-09 (Pandora #13)	Center of NE quarter of Sec. 5	6000 - 5-29-25
1-09 (Pandora #14)	Eastern most vent in Section 5, on Section line.	7000 - 5-29-25

* These vents will be re-named when the mine workings reach into this area and the vents are installed.
( ) Operations Naming Convention.





LEGEND

SURFACE OWNERSHIP
- BLM Claims
- US Forest Service Claims
- State of Utah Lease
- Private Owner

- Disturbed Area
- Drainage Berm / Catchment
- Access Roads
- Existing Permanent Roads
- Existing Roads
- Power Line and Pole
- Diversion Ditch or Channel
- Crest and Toe of Piles
- Vent 4500-5-29-25 — Existing Vent Hole
- VENT 4-09-6-29-25 — Proposed Vent Hole

Note: Roads located in Sections 5 & 35, will be "Closed to the Public".

West Map | East Map
MAP KEY

Contour Interval = 25 Feet
From Aerial Survey 2008

250 125 0 250 500
SCALE IN FEET

N W E S

Utah State Plane Coordinate System
South Zone, NAD 83

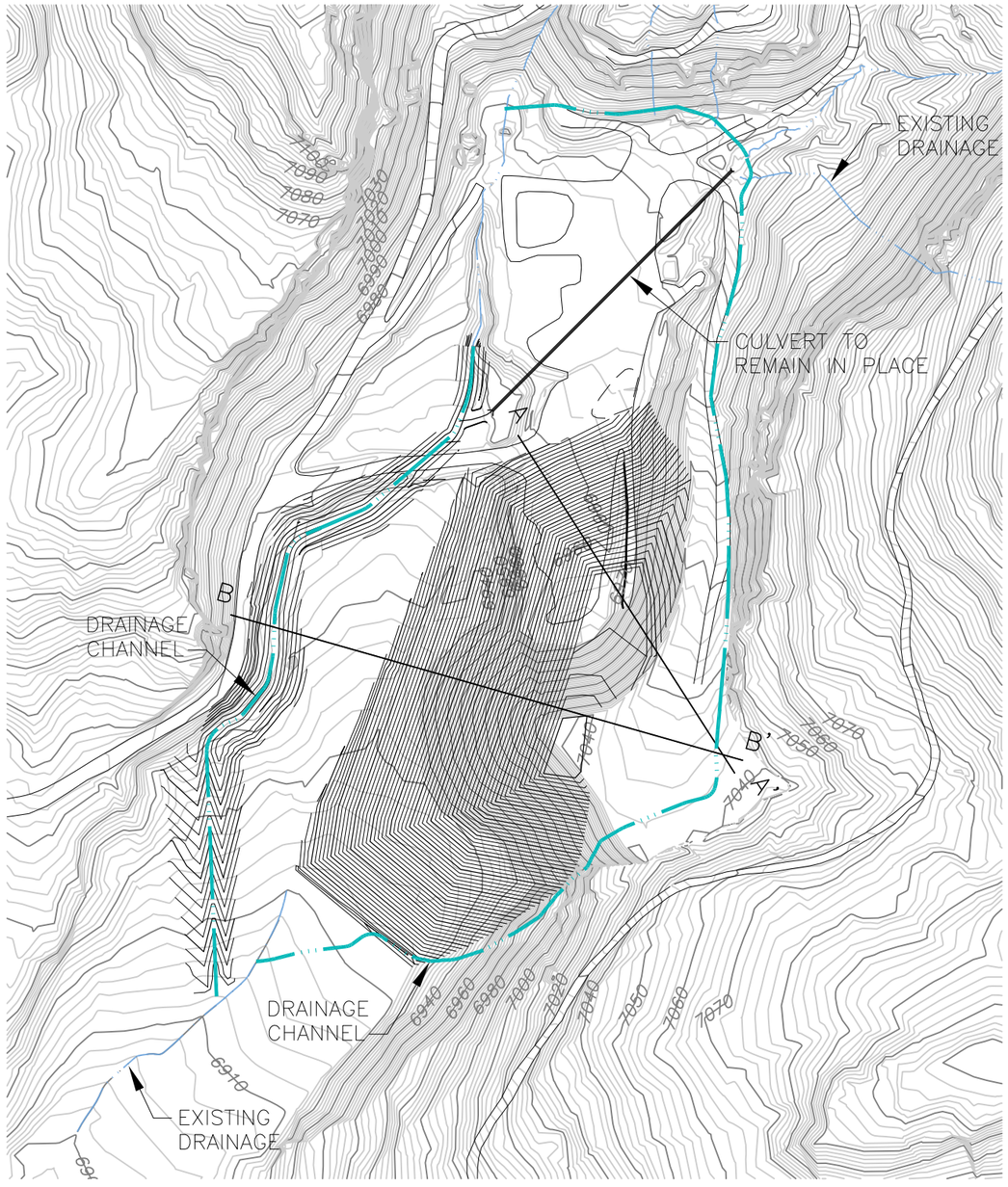
Denison Mines (USA) Corp.

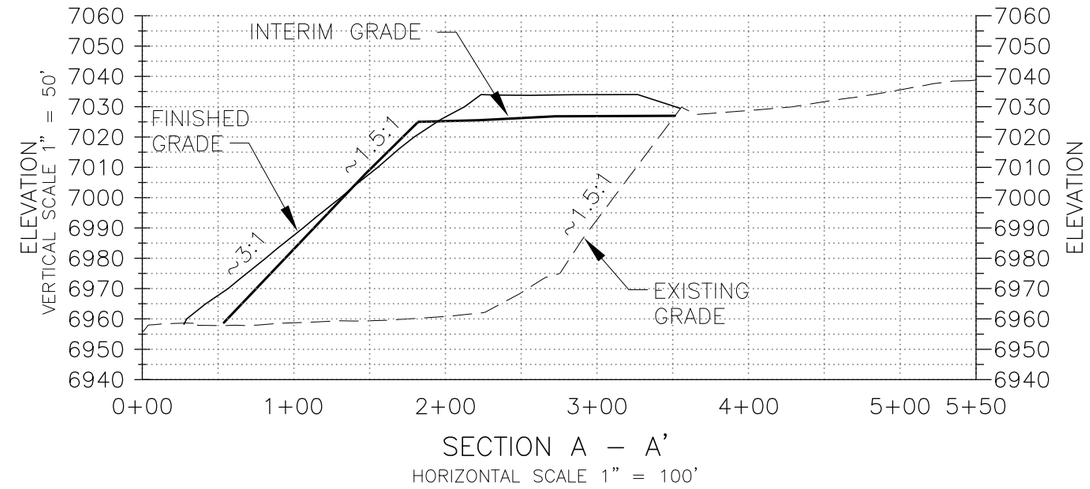
REVISIONS		
Date	By	
4-10-03	DLS	
8-09	DLS	
4-15-10	dlc	

Project: LASAL MINES
County: San Juan State: Utah
Location: Portions of R 24-25 E, T 28-29 S

FIGURE 4-5
LA SAL MINES COMPLEX SITE MAP
WITH SURFACE OWNERSHIP

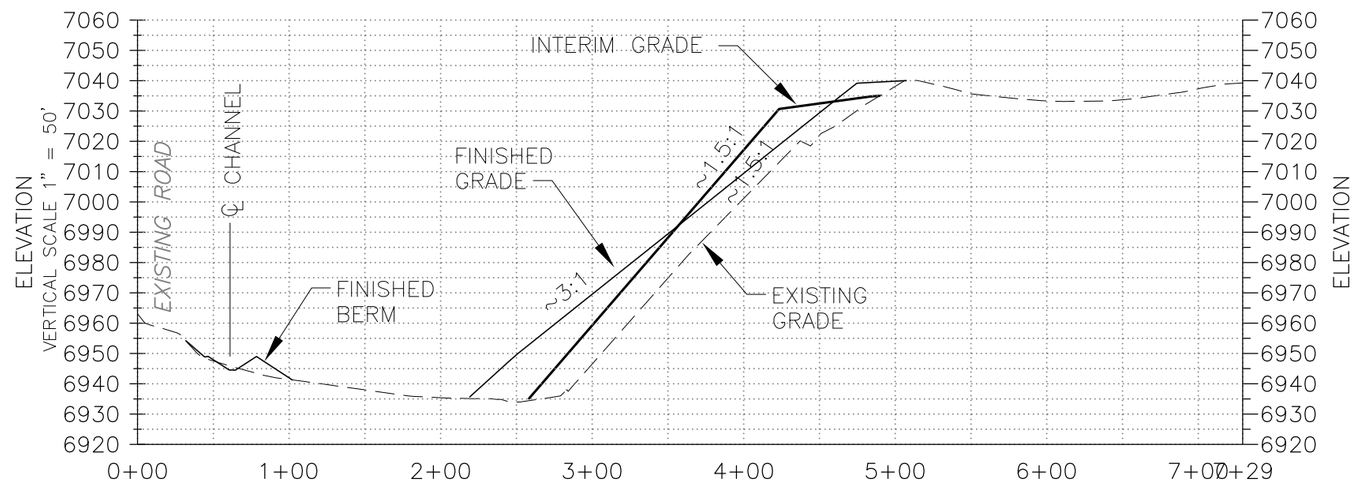
Author: T. Weiz Drafted By: dlecki





SECTION A – A'

HORIZONTAL SCALE 1" = 100'



SECTION B – B'

HORIZONTAL SCALE 1" = 100'

VOLUME CALCULATIONS*			
SURFACE	CUT	FILL	NET FILL
EXISTING vs. FINISHED	55	238,363	238,308
INTERIM vs. FINISHED	36,033	35,459	574

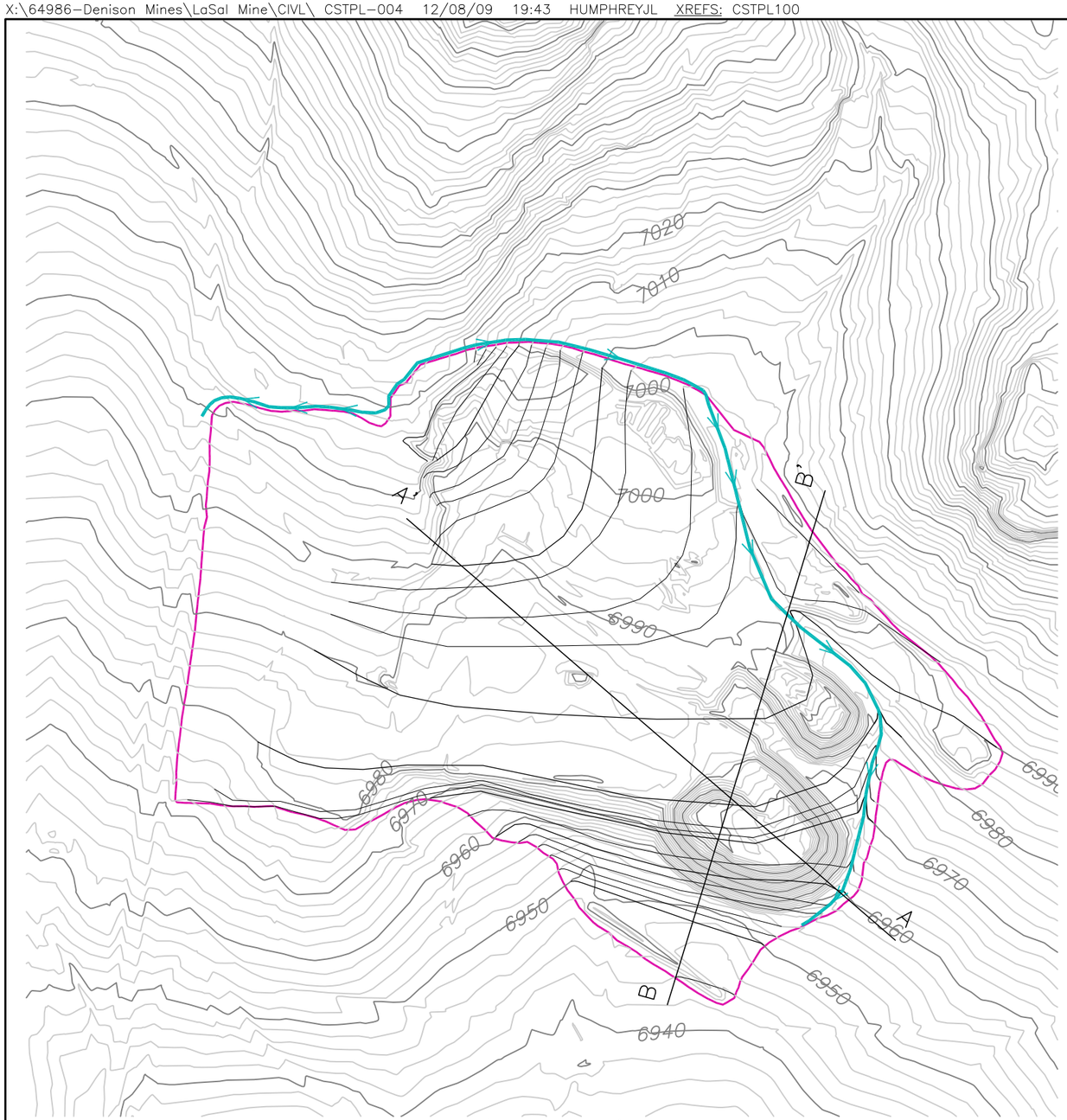
* ALL TABLE NUMBERS ARE IN BANK CUBIC YARDS (cy)

FINAL GRADE AREA = 312,813 SQ. FT. (7.18 Ac.)

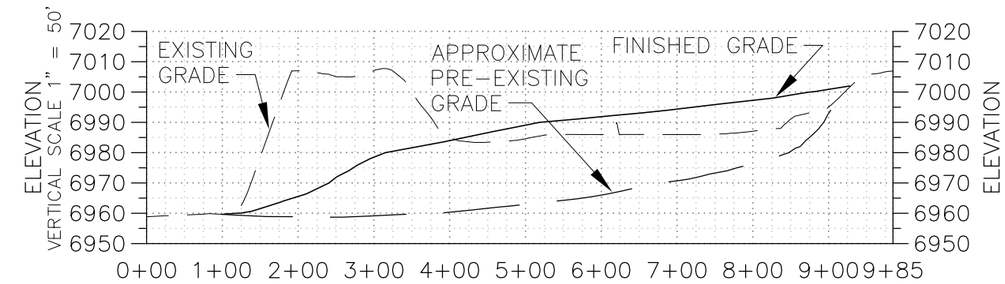
CDM

Figure 5-1
Denison Mines (USA) Corp.
Pandora Mine, Development Rock Pile
Reclamation Volume and Area Calculations

X:\64986-Denison Mines\LaSal Mine\CIVL\ CSTPL-004 12/08/09 19:43 HUMPHREYJL XREFS: CSTPL100

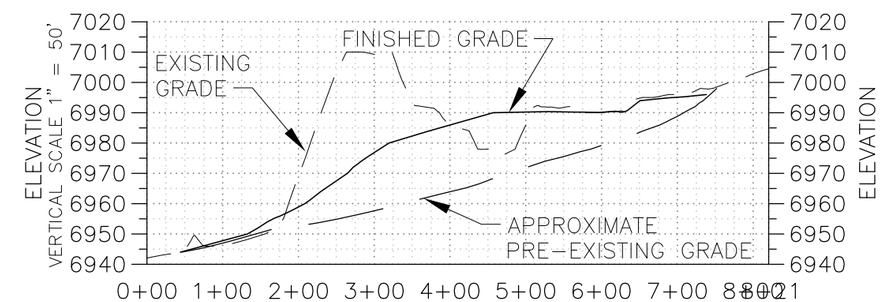


SCALE IN FEET



SECTION A – A'

HORIZONTAL SCALE 1" = 200'



SECTION B – B'

HORIZONTAL SCALE 1" = 200'

VOLUME CALCULATIONS*			
SURFACE	CUT	FILL	NET FILL
PRE-EXISTING vs. EXISTING	0	249,968	249,968
EXISTING vs. FINISHED	58,457	58,641	183

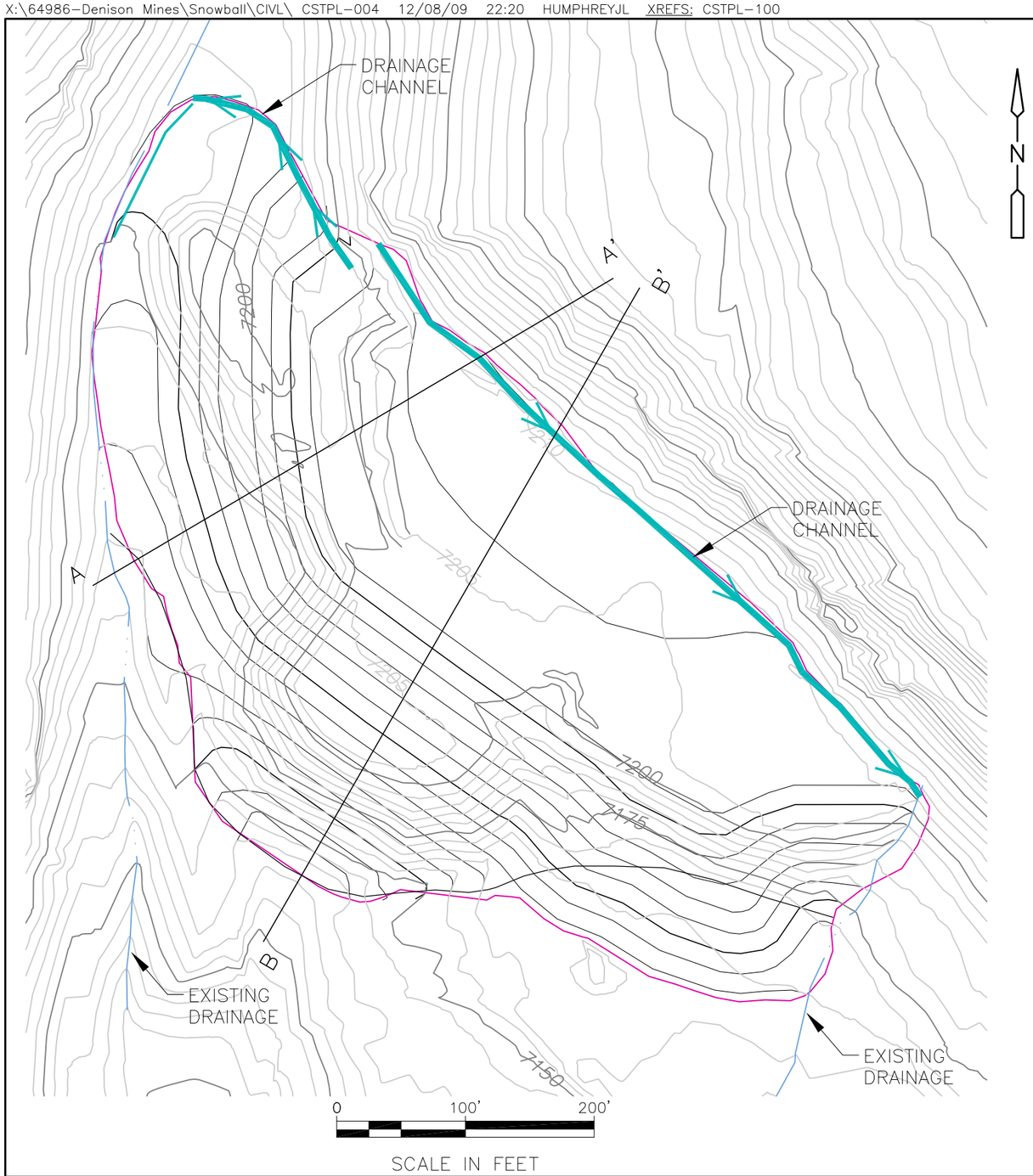
* ALL TABLE NUMBERS ARE IN BANK CUBIC YARDS (cy)

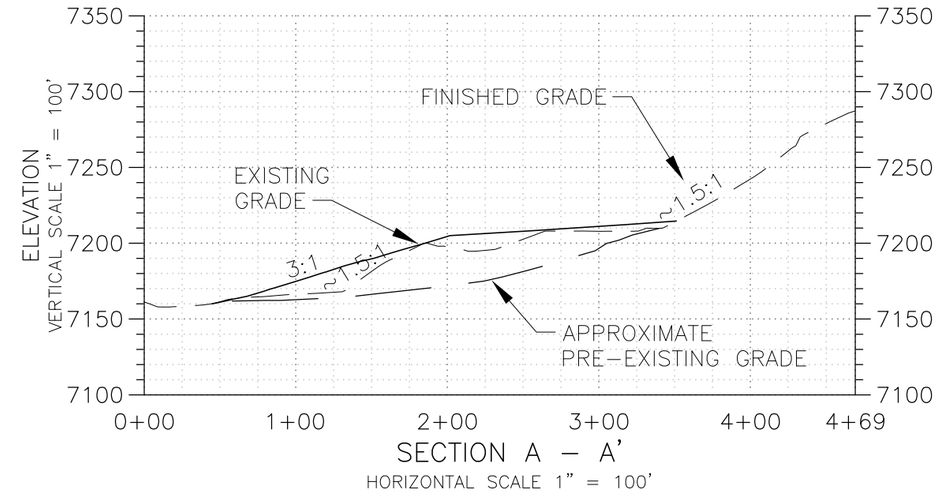
FINAL GRADE AREA = 770,700 SQ. FT. (17.69 Ac.)
TOPSOIL RECOVERY PILES = ±1,511 CUBIC YARDS

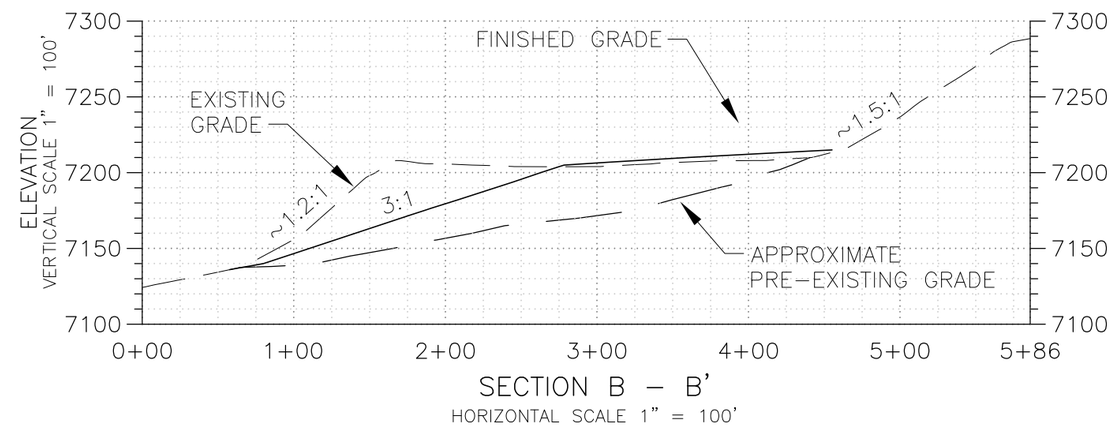
CDM

Figure 5-2
Denison Mines (USA) Corp.
La Sal Mine, Development Rock Pile
Reclamation Volume and Area Calculations

X:\64986-Denison Mines\Snowball\CIVL\ CSTPL-004 12/08/09 22:20 HUMPHREYJL XREFS: CSTPL-100







VOLUME CALCULATIONS*			
SURFACE	CUT	FILL	NET FILL
PRE-EXISTING vs. EXISTING	0	132,768	132,768
EXISTING vs. FINISHED	33,194	33,197	3 FILL

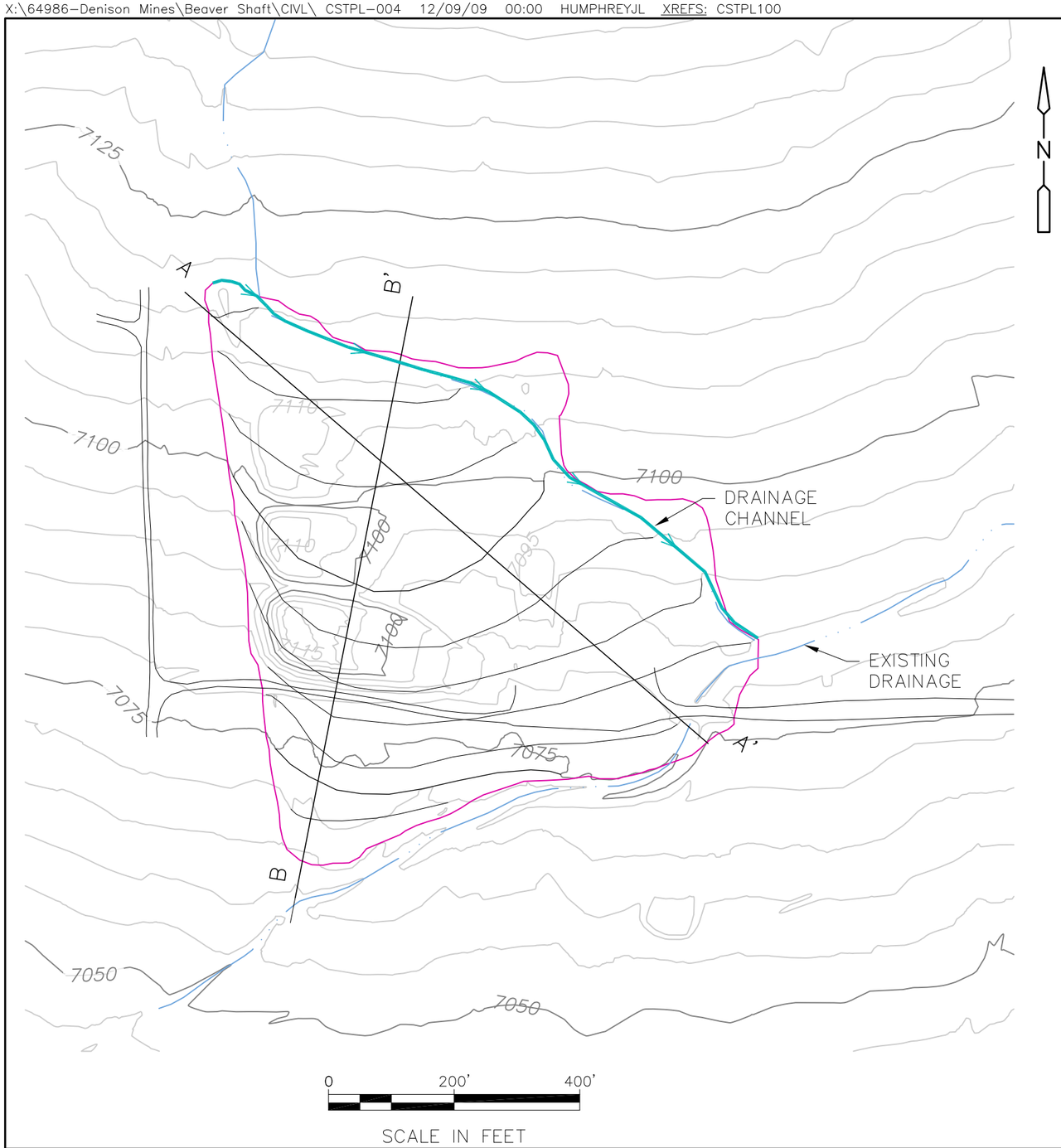
* ALL TABLE NUMBERS ARE IN BANK CUBIC YARDS (cy)

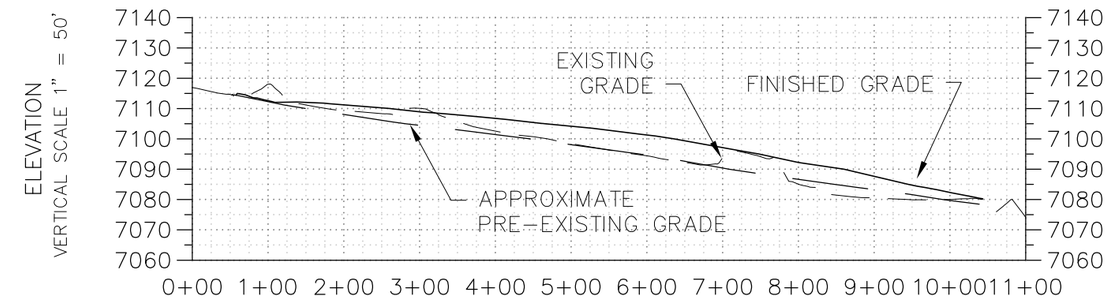
FINAL GRADE AREA = 241,434 SQ. FT. (5.54 Ac.)

CDM

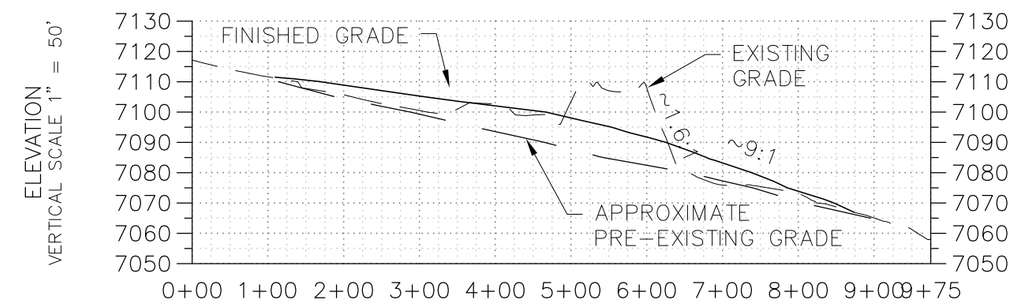
Figure 5-3
Denison Mines (USA) Corp.
Snowball Mine, Development Rock Pile
Reclamation Volume and Area Calculations

X:\64986-Denison Mines\Beaver Shaft\CIVL\ CSTPL-004 12/09/09 00:00 HUMPHREYJL XREFS: CSTPL100





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



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

VOLUME CALCULATIONS*			
SURFACE	CUT	FILL	NET FILL
PRE-EXISTING vs. EXISTING	0	54,605	54,605
EXISTING vs. FINISHED	20,616	51,754	31,138
AVAILABLE FILL			31,138

* ALL TABLE NUMBERS ARE IN BANK CUBIC YARDS (cy)

FINAL GRADE AREA = 428548 SQ. FT. (9.84 Ac.)

CDM

Figure 5-4a
Denison Mines (USA) Corp.
Beaver Shaft Mine (West), Development Rock Pile
Reclamation Volume and Area Calculations

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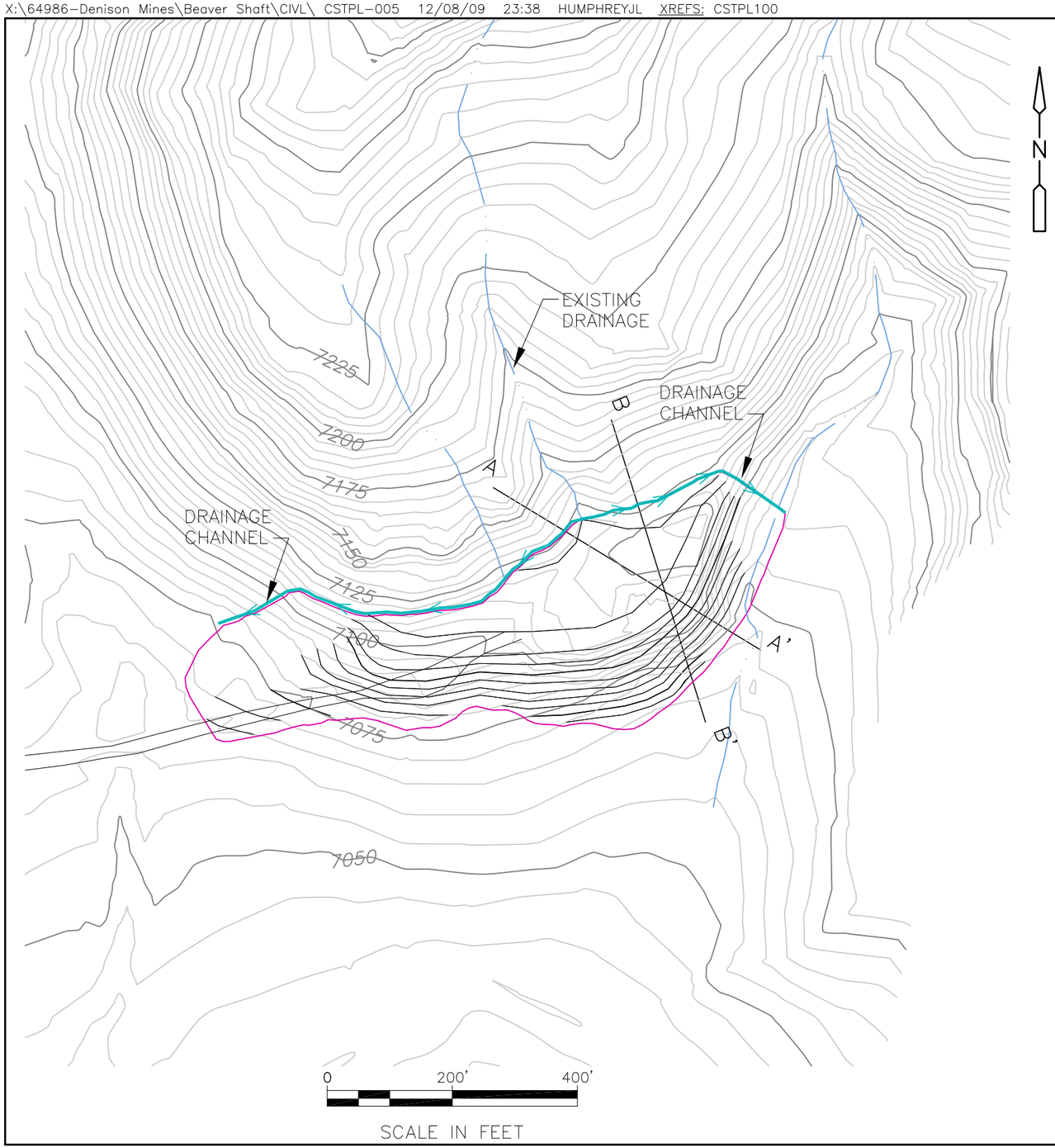
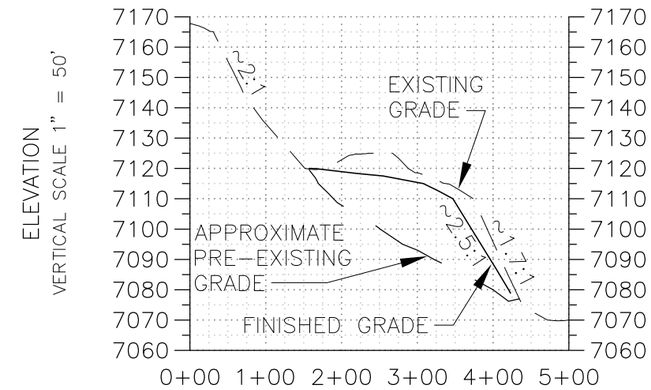
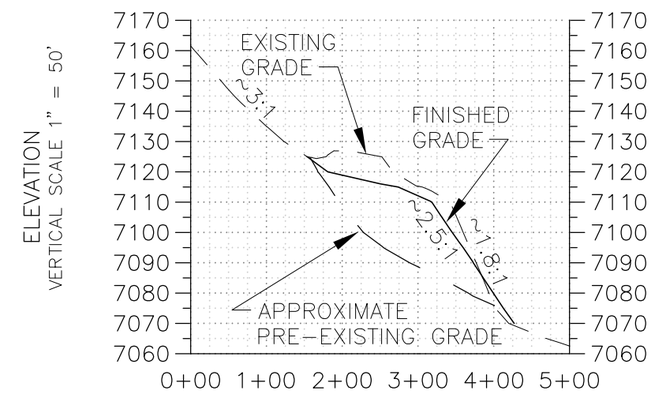




SECTION A – A'

HORIZONTAL SCALE 1" = 200'



SECTION B – B'

HORIZONTAL SCALE 1" = 200'

VOLUME CALCULATIONS*			
SURFACE	CUT	FILL	NET FILL
PRE-EXISTING vs. EXISTING	0	57,247	57,247
EXISTING vs. FINISHED	10,702	23,004	12,302
TOTAL TO BE RELOCATED			0

* ALL TABLE NUMBERS ARE IN BANK CUBIC YARDS (cy)

FINAL GRADE AREA = 130,012 SQ. FT. (2.98 Ac.)

CDM

Figure 5-4b
Denison Mines (USA) Corp.
Beaver Shaft Mine (East), Development Rock Pile
Reclamation Volume and Area Calculations

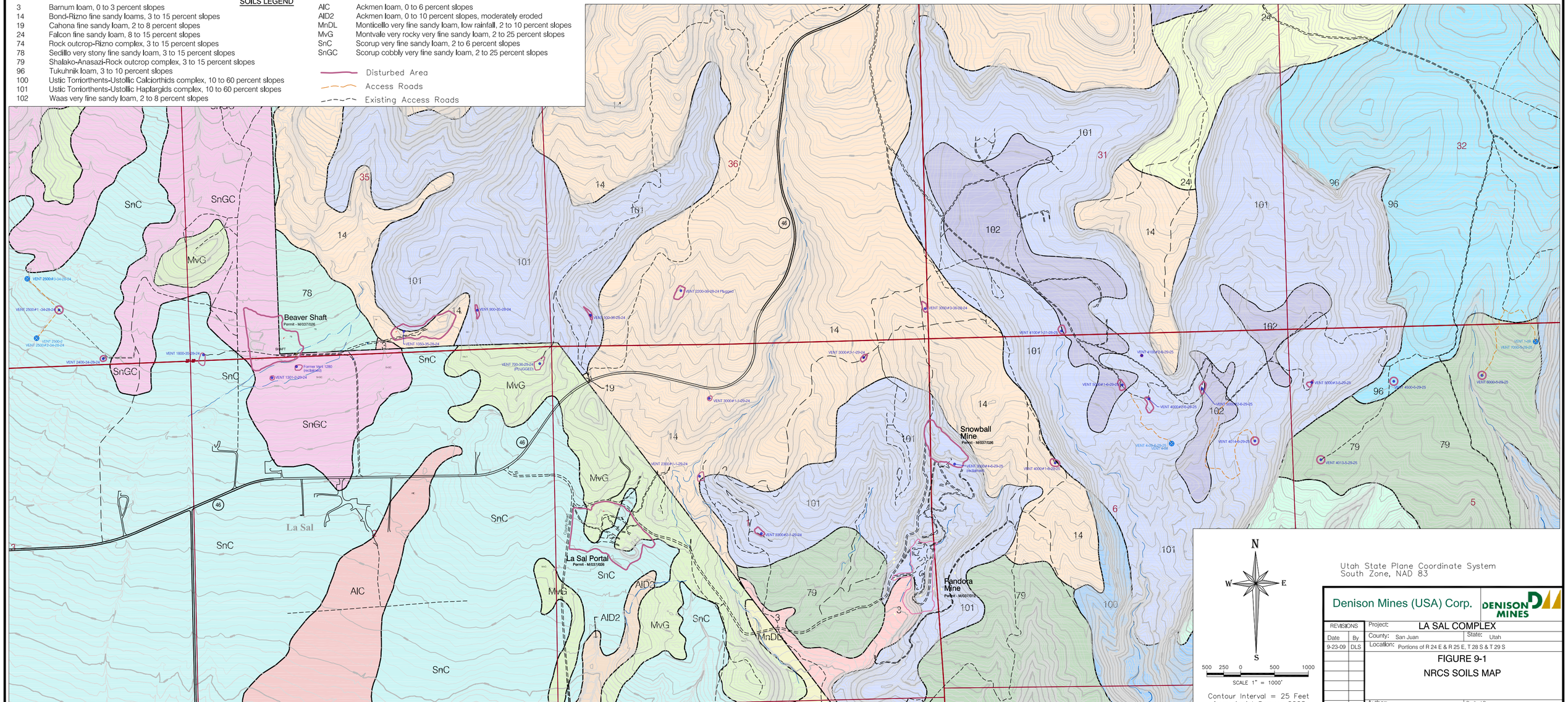
SOILS LEGEND

3	Barnum loam, 0 to 3 percent slopes
14	Bond-Rizno fine sandy loams, 3 to 15 percent slopes
19	Cahona fine sandy loam, 2 to 8 percent slopes
24	Falcon fine sandy loam, 8 to 15 percent slopes
74	Rock outcrop-Rizno complex, 3 to 15 percent slopes
78	Sedillo very stony fine sandy loam, 3 to 15 percent slopes
79	Shalako-Anasazi-Rock outcrop complex, 3 to 15 percent slopes
96	Tukuhnik loam, 3 to 10 percent slopes
100	Ustic Torriorthents-Ustollic Calciorthids complex, 10 to 60 percent slopes
101	Ustic Torriorthents-Ustollic Haplargids complex, 10 to 60 percent slopes
102	Waas very fine sandy loam, 2 to 8 percent slopes
AlC	Ackmen loam, 0 to 6 percent slopes
AlD2	Ackmen loam, 0 to 10 percent slopes, moderately eroded
MnDL	Monticello very fine sandy loam, low rainfall, 2 to 10 percent slopes
MvG	Montvale very rocky very fine sandy loam, 2 to 25 percent slopes
SnC	Scorup very fine sandy loam, 2 to 6 percent slopes
SnGC	Scorup cobbly very fine sandy loam, 2 to 25 percent slopes

Disturbed Area

Access Roads

Existing Access Roads



N
W E
S

500 250 0 500 1000

SCALE 1" = 1000'

Contour Interval = 25 Feet from Aerial Survey, 2008

Utah State Plane Coordinate System
South Zone, NAD 83

Denison Mines (USA) Corp.

DENISON MINES

REVISIONS		Project: LA SAL COMPLEX	
Date	By	County: San Juan	State: Utah
9-23-09	DLS	Location: Portions of R 24 E & R 25 E, T 28 S & T 29 S	

FIGURE 9-1

NRCS SOILS MAP

Author: C. Woodward

Drafted By: Sledd