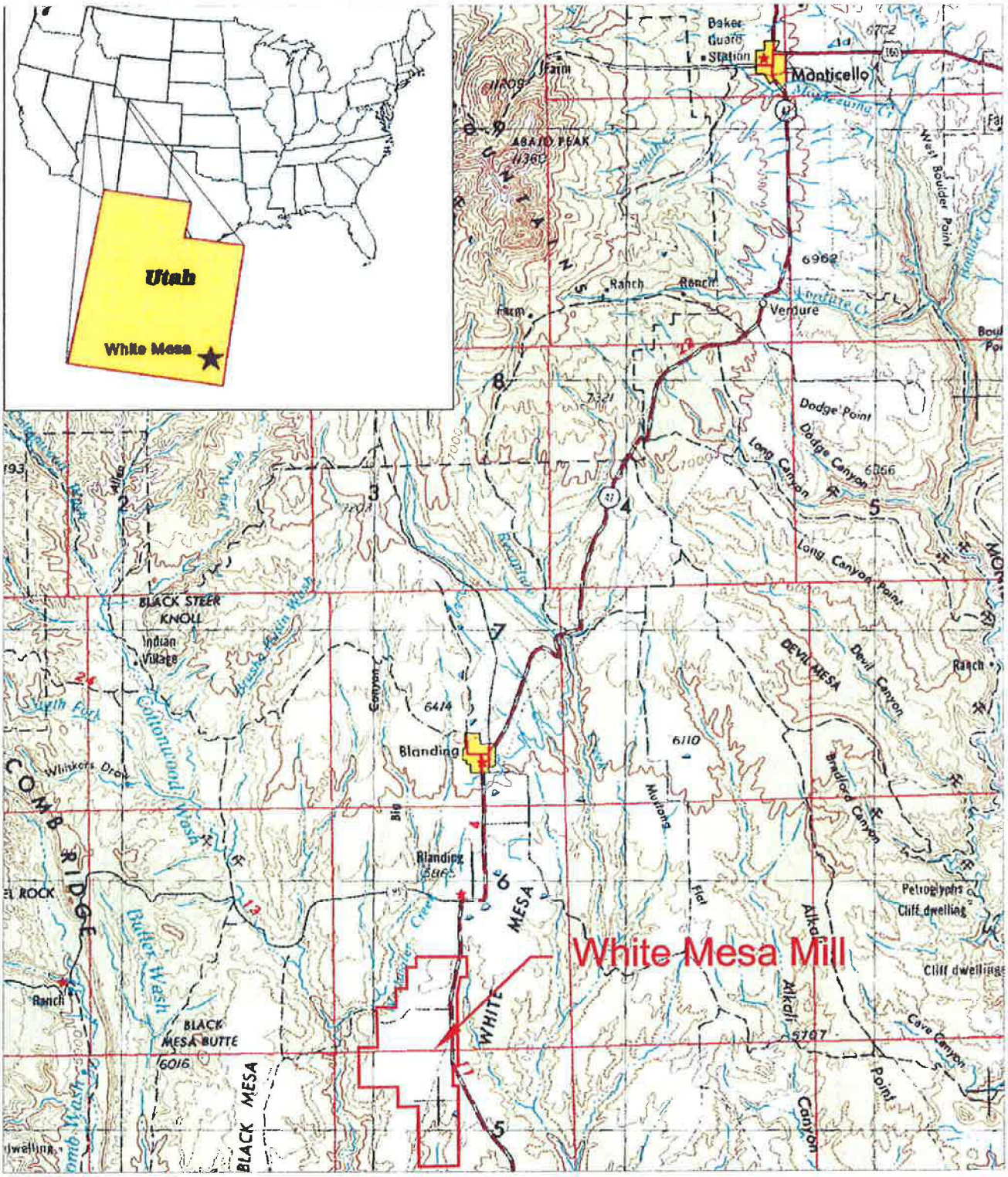
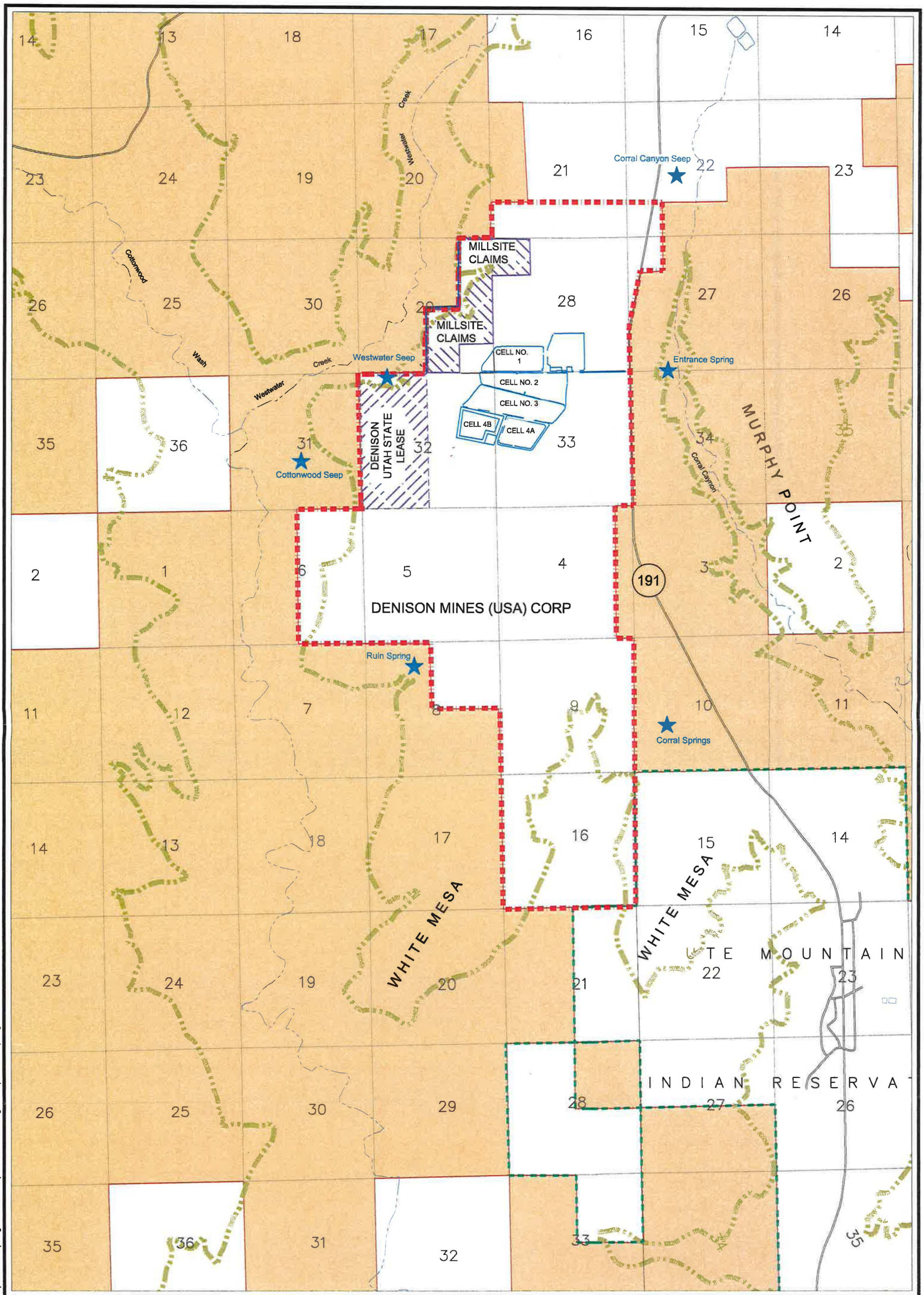


Denison Mines (USA) Corp.	DENISON MINES
Project	WHITE MESA MILL
REVISIONS	County: / State: UT
Date / By	Location:
	Figure 1 White Mesa Mill Location Map
	Scale: as shown / Date: Aug 2009 / figure 1.dwg
	Author: bm / Drafted By: D.Sledd

U:\2009 License Renewal Application - Figures\Figure 1.dwg Figure 1 31/08/2009 dsledd



BLM

Denison Property Boundary

Ute Mtn. Ute Reservation Boundary

Canyon Rim

N

1,750' 0 1,750' 3,500'

SCALE: 1" = 3,500'

UT83-SF

Denison Mines (USA) Corp

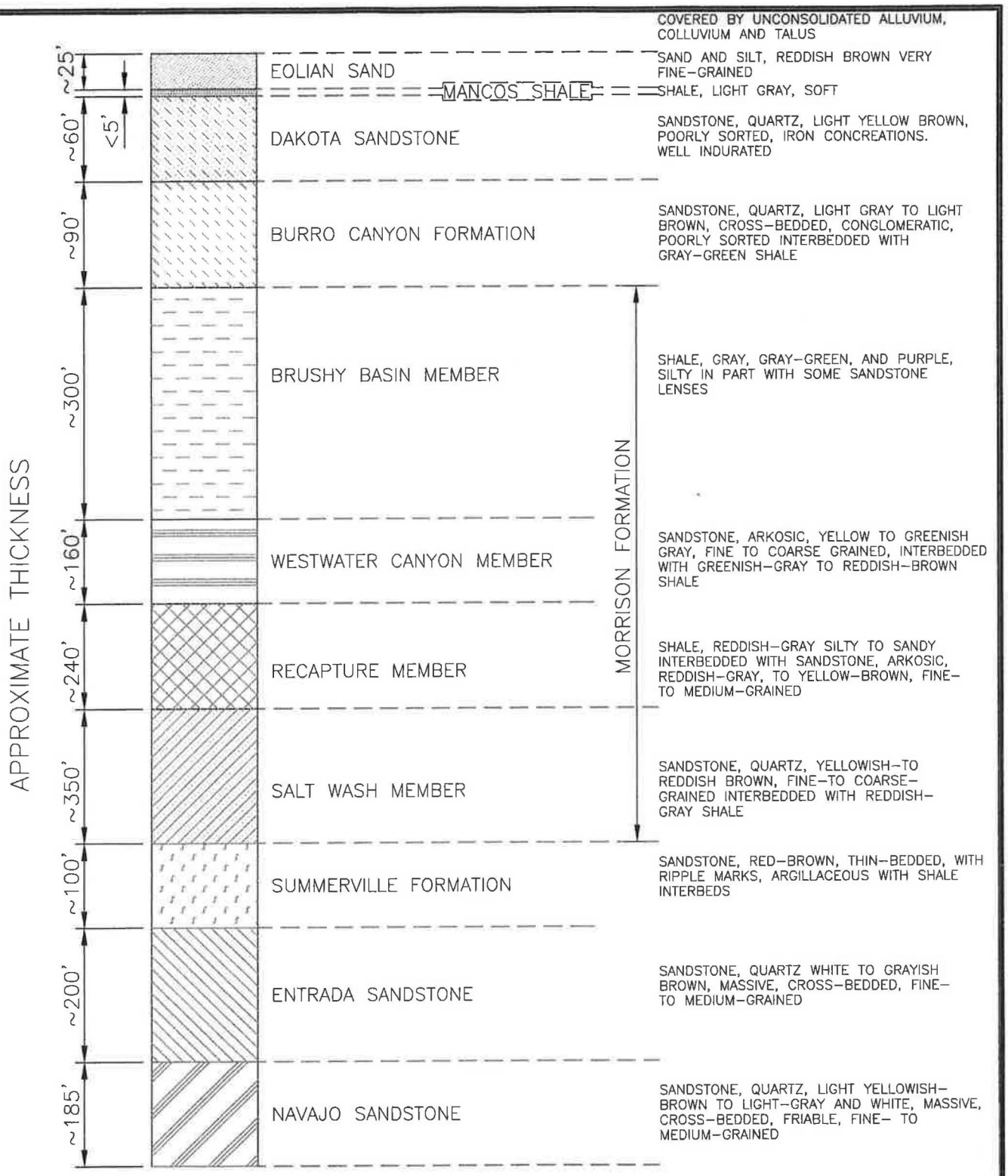
DENISON MINES

REVISIONS		Project: White Mesa Mill	
Date	By	County:	State: UT
09-11	GM	Location:	
12-11	GM		
02-12	GM		

FIGURE 2
WHITE MESA MILL LAND MAP

Author: HRR | Date: Nov. 3, 2003 | Drafted By: BM

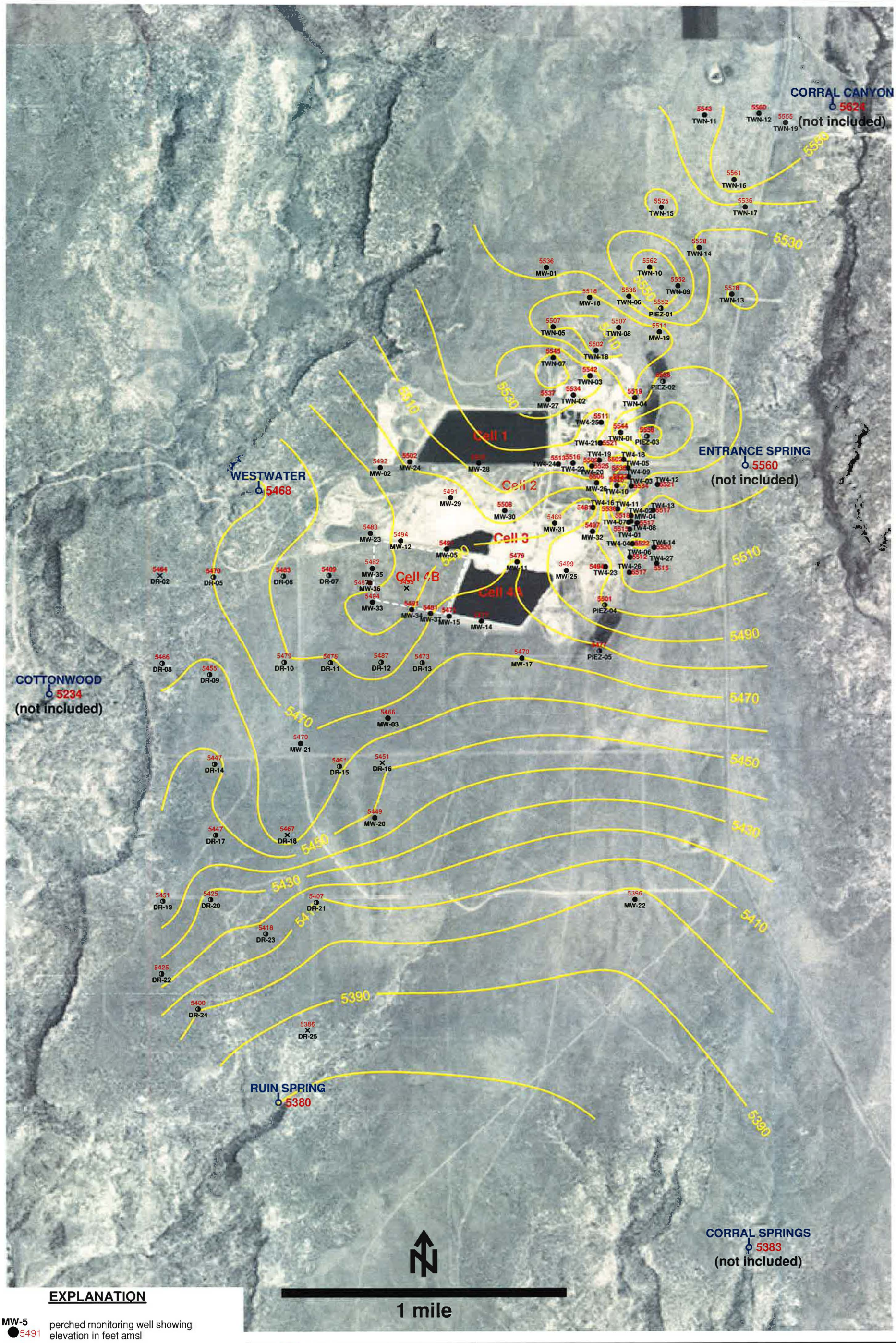
\\ernis016fp1\cad\Clients\Denison\Seeps_and_SpringsLocationMap2012_BLM2.dwg Seeps and Springs Locations deborah.ford



Taken from Stratigraphic Section near Water Well #3

Denison Mines (USA) Corp.	DENISON MINES
Project: WHITE MESA MILL	
REVISIONS (Date / By)	County: / State: UT
	Location:
	Figure 3 Generalized Stratigraphy of White Mesa Mill
	Scale: N/A / Date: Aug 2009 / figure 3.dwg
	Author: HRR / Drafted By: D.Sledd

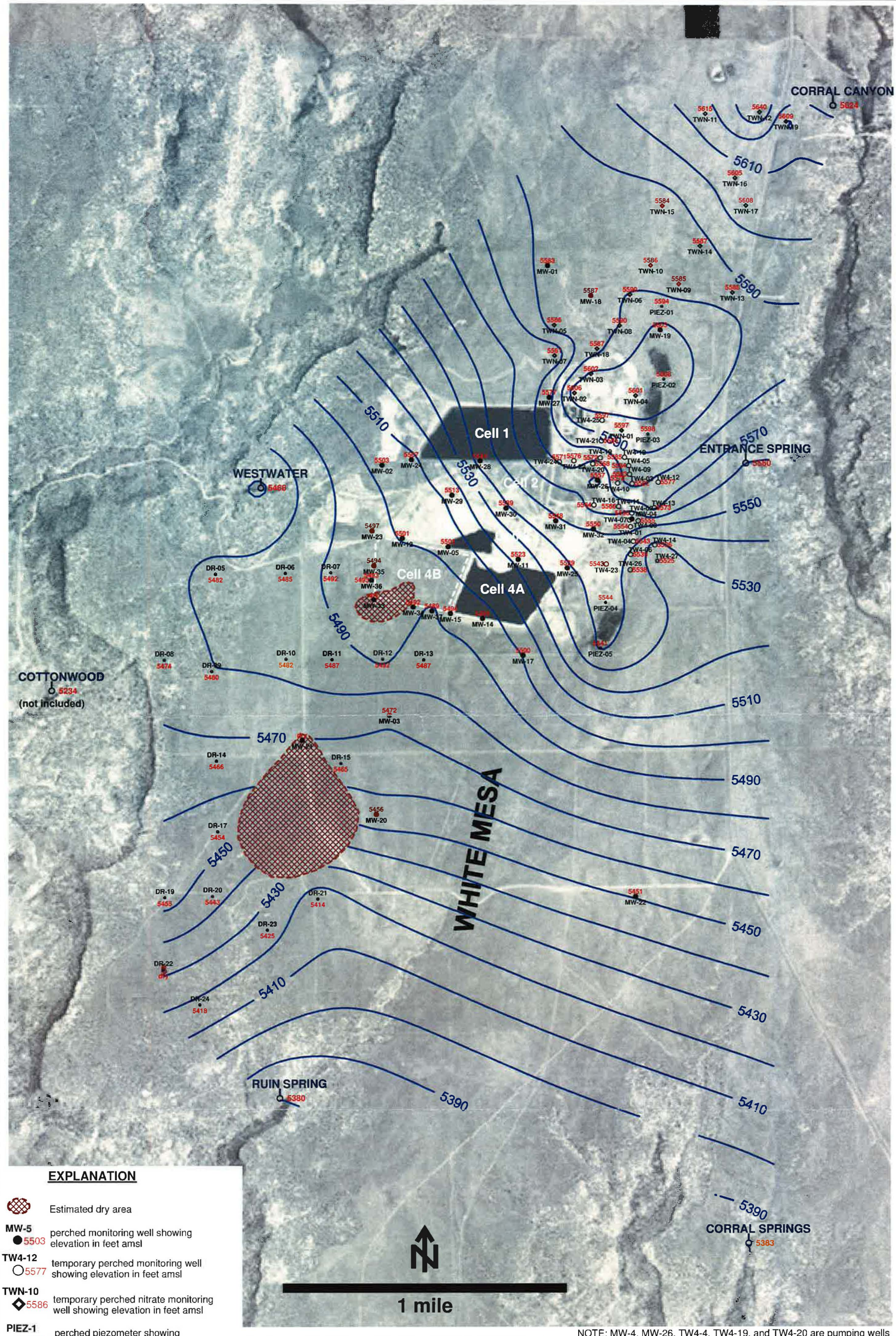
U:\2009 License Renewal Application - Figures\Figure 3.dwg Figure 3 31/08/2009 dsledd



HYDRO GEO CHEM, INC.

APPROXIMATE ELEVATION OF TOP OF BRUSHY BASIN (Ruin Spring and Westwater Seep included in the contouring)

APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/permit2012/Ubb0312.srf	4



NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells

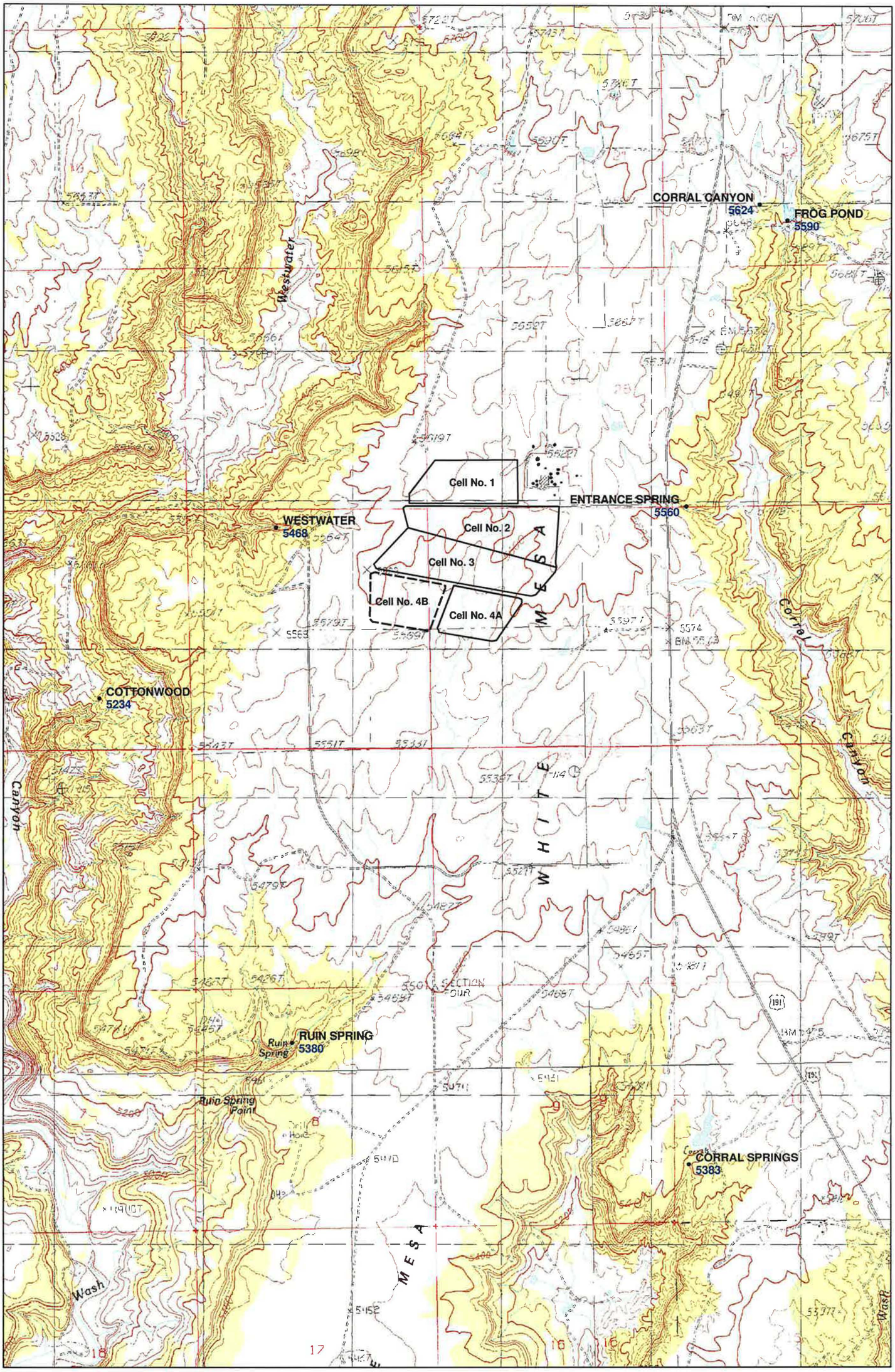
EXPLANATION

- Estimated dry area
- MW-5 5503 — perched monitoring well showing elevation in feet amsl
- TW4-12 5577 — temporary perched monitoring well showing elevation in feet amsl
- TWN-10 5586 — temporary perched nitrate monitoring well showing elevation in feet amsl
- PIEZ-1 5594 — perched piezometer showing elevation in feet amsl
- TW4-27 5525 — temporary perched monitoring well installed October, 2011 showing elevation in feet amsl
- RUIN SPRING 5380 — seep or spring showing elevation in feet amsl

HYDRO GEO CHEM, INC.

KRIGED 1st QUARTER, 2012 WATER LEVELS WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/permit2012/Uwl0312b.srf	5



0.5 0.25 0 0.5 1 Mile

● **WESTWATER** Seep or Spring
5468 Elevation (feet) above mean sea level

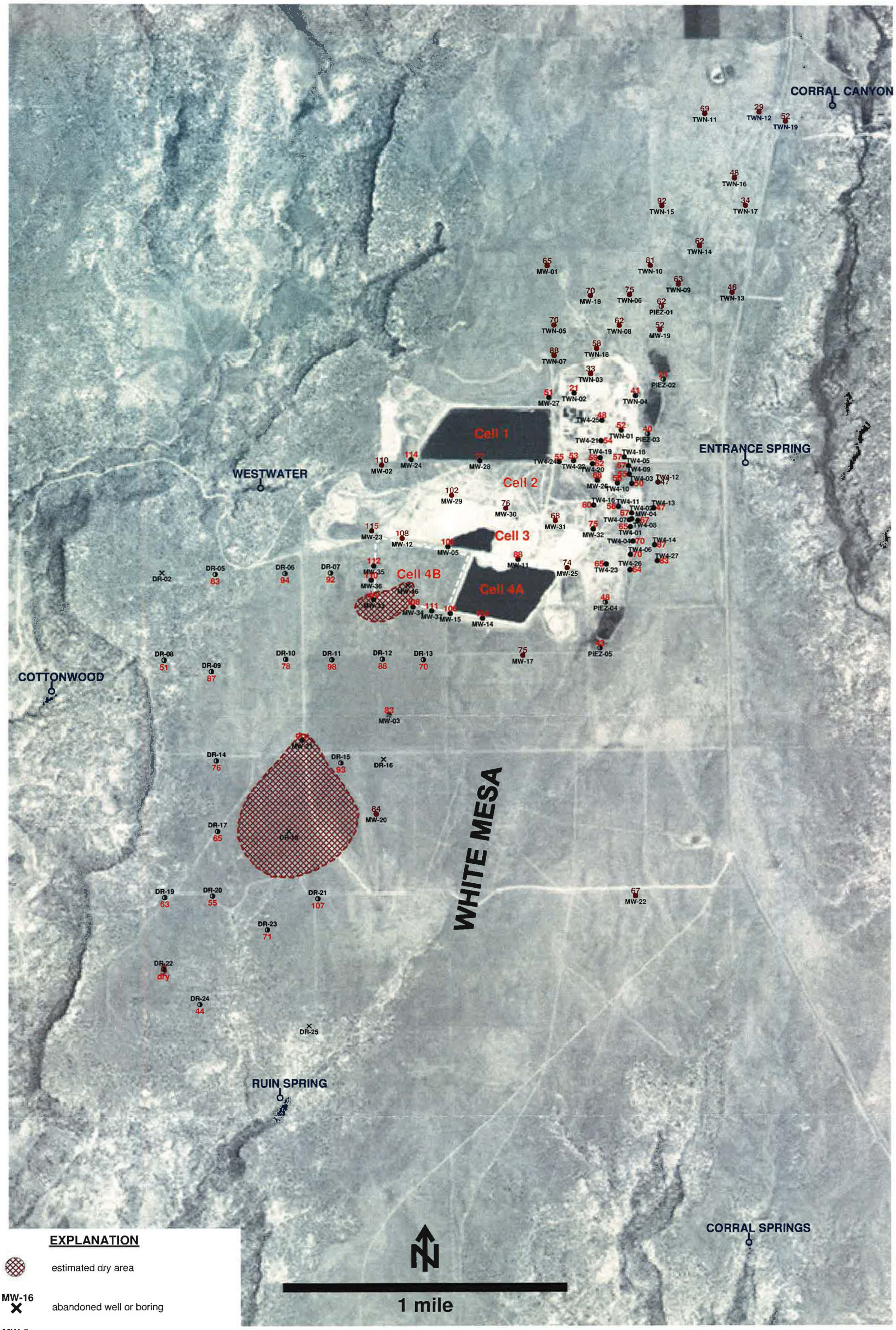
NORTH

HYDRO GEO CHEM, INC.

SEEPS AND SPRINGS ON USGS TOPOGRAPHIC BASE WHITE MESA

Approved	Date	Author	Date	File Name	Figure
SJS	09/17/10	DRS	07/16/10	7180002G	6

K:\718000\GIS\7180002G.mxd: Friday, September 17, 2010 1:02:59 PM



EXPLANATION

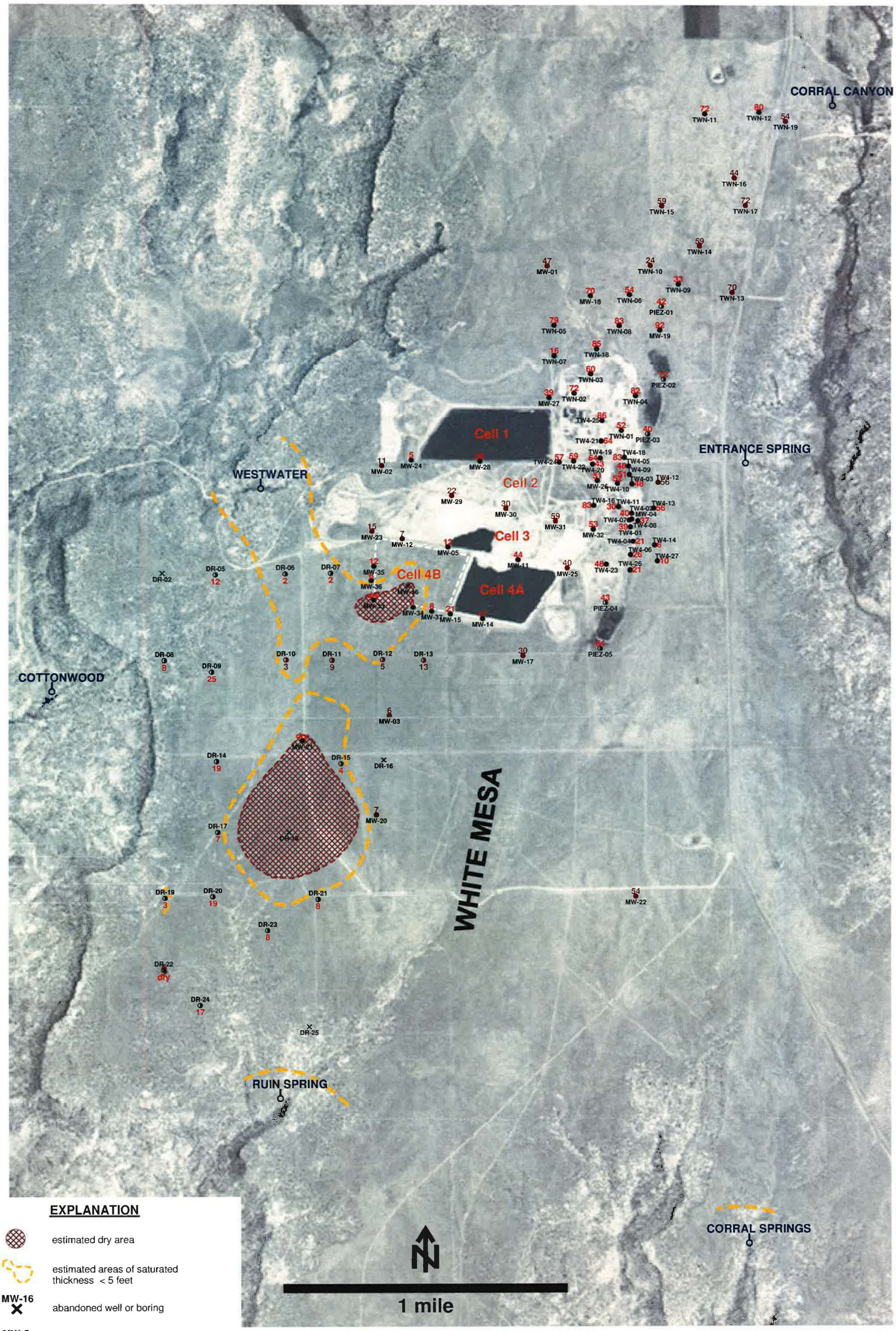
- estimated dry area
- MW-16 ✕ abandoned well or boring
- MW-5 ● 106 perched monitoring well showing depth to water in feet
- DR-5 ◑ 83 perched piezometer showing depth to water in feet
- RUIN SPRING seep or spring (depth to water not defined)

NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells

HYDRO GEO CHEM, INC.

1st QUARTER, 2012
DEPTHS TO PERCHED WATER
WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/permit2012/Udtw0312srf	7



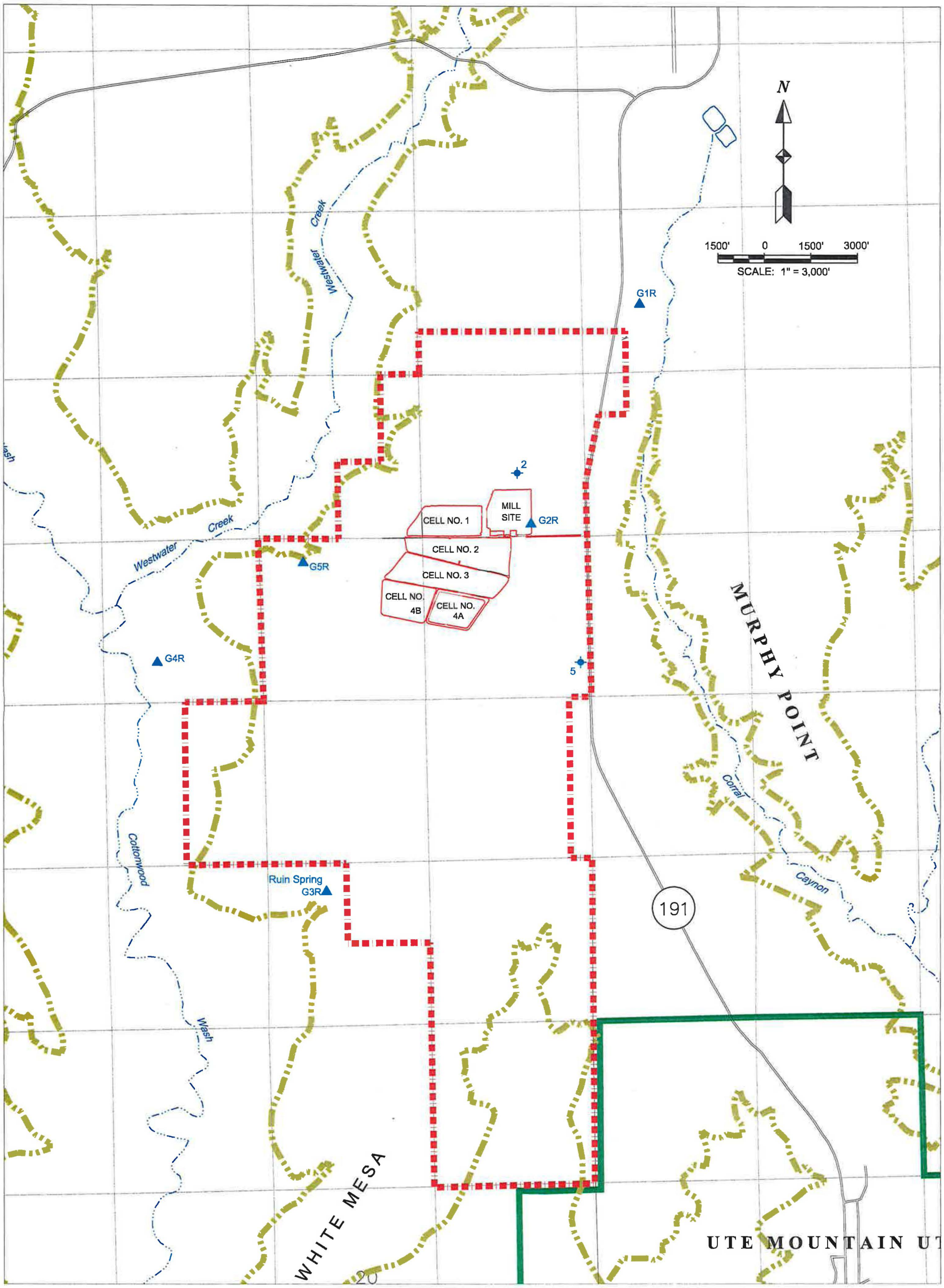
NOTE: MW-4, MW-26, TW4-4, TW4-19, and TW4-20 are pumping wells

HYDRO GEO CHEM, INC.

1st QUARTER, 2012
PERCHED WATER SATURATED THICKNESSES
WHITE MESA SITE

APPROVED	DATE	REFERENCE	FIGURE
SJS		H:/718000/permit2012/Usat0312.srf	8

\\emls016fp1\cad\Clients\Denison\Figure 9.dwg Figure 9 18/06/2012 deborah.ford



G4R GROUNDWATER (WELL OR SPRING) SAMPLING LOCATION

5 WATER SUPPLY WELL

PROPERTY BOUNDARY

RESERVATION BOUNDARY

CANYON RIM

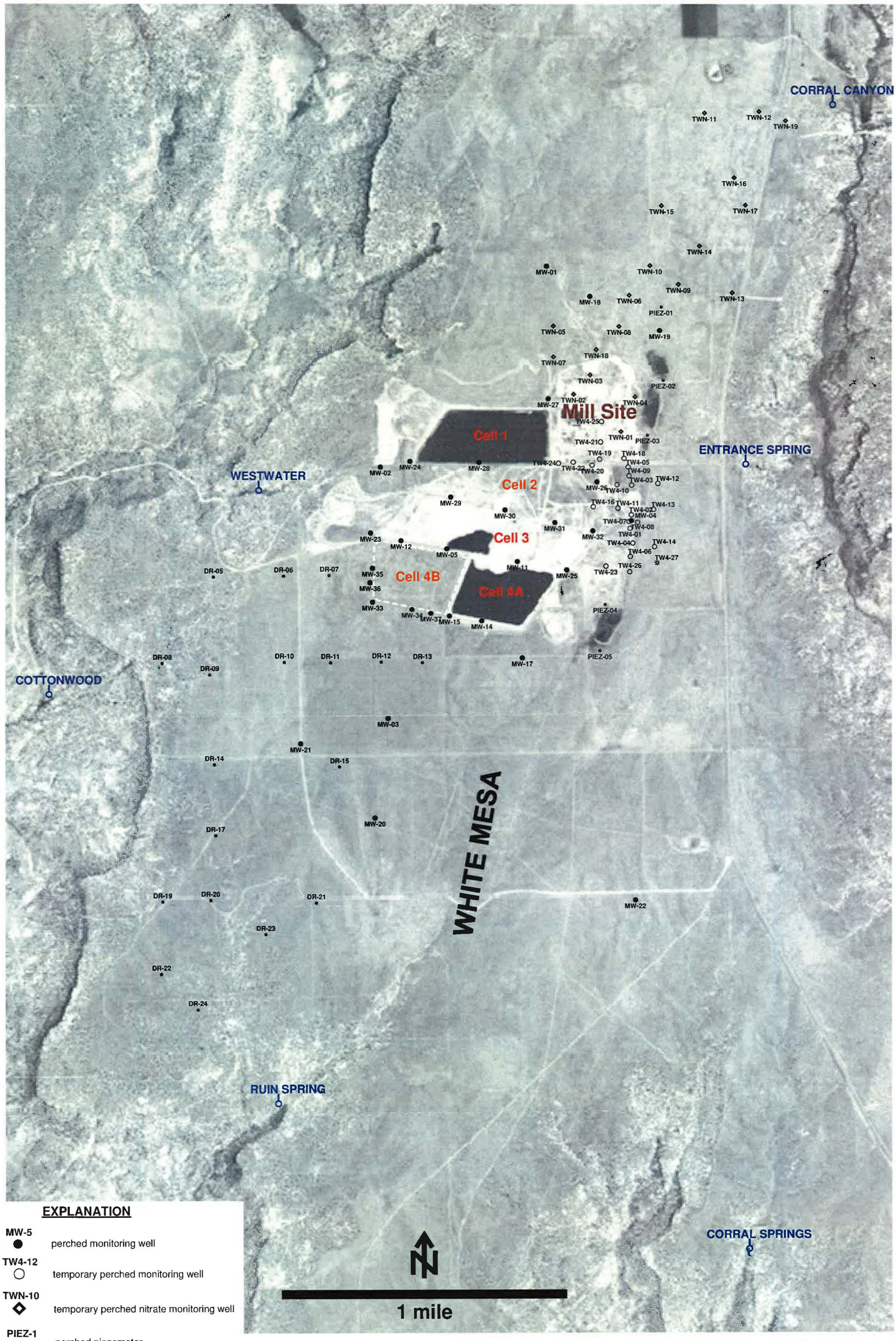
Denison Mines (USA) Corp

DENISON MINES

REVISIONS		Project: WHITE MESA MILL	
Date	By	County: SAN JUAN	State: UT
		Location:	

Figure 9
Groundwater (Well and Spring) Sampling Stations in theWhite Mesa Vicinity

Author: brn | Date: Aug 2009 | Drafted By: D.Sledd



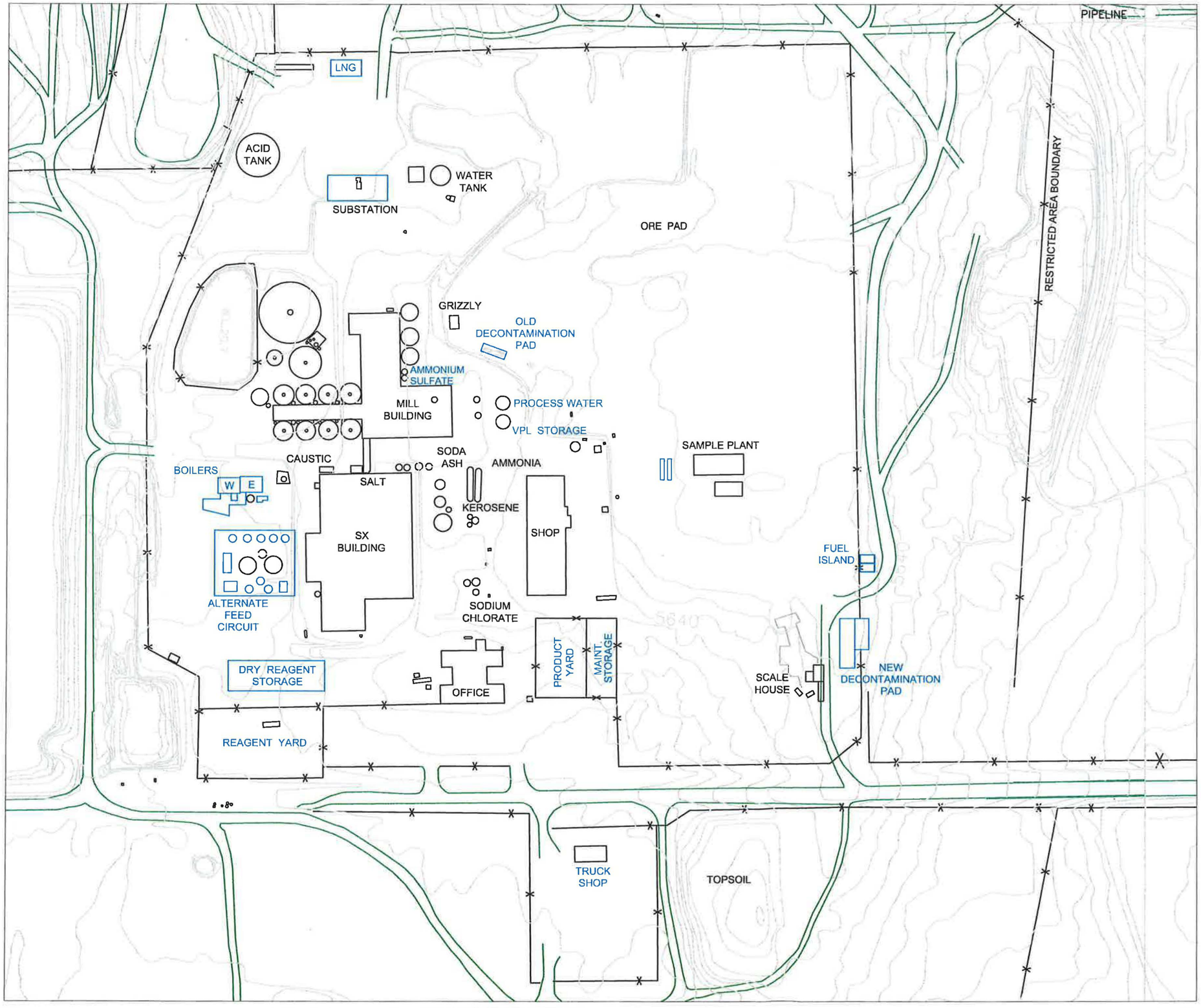
EXPLANATION

MW-5 ●	perched monitoring well
TW4-12 ○	temporary perched monitoring well
TWN-10 ◇	temporary perched nitrate monitoring well
PIEZ-1 ◒	perched piezometer
TW4-27 ☼	temporary perched monitoring well installed October, 2011
RUIN SPRING	seep or spring

HYDRO GEO CHEM, INC.

WHITE MESA SITE PLAN SHOWING LOCATIONS OF PERCHED WELLS AND PIEZOMETERS

APPROVED	DATE	REFERENCE	FIGURE
		H:/718000/permit2012/Uwelloc12b.srf	10



Denison Mines (USA) Corp

DENISON MINES

Project	WHITE MESA MILL
County: San Juan	State: Utah
Location:	

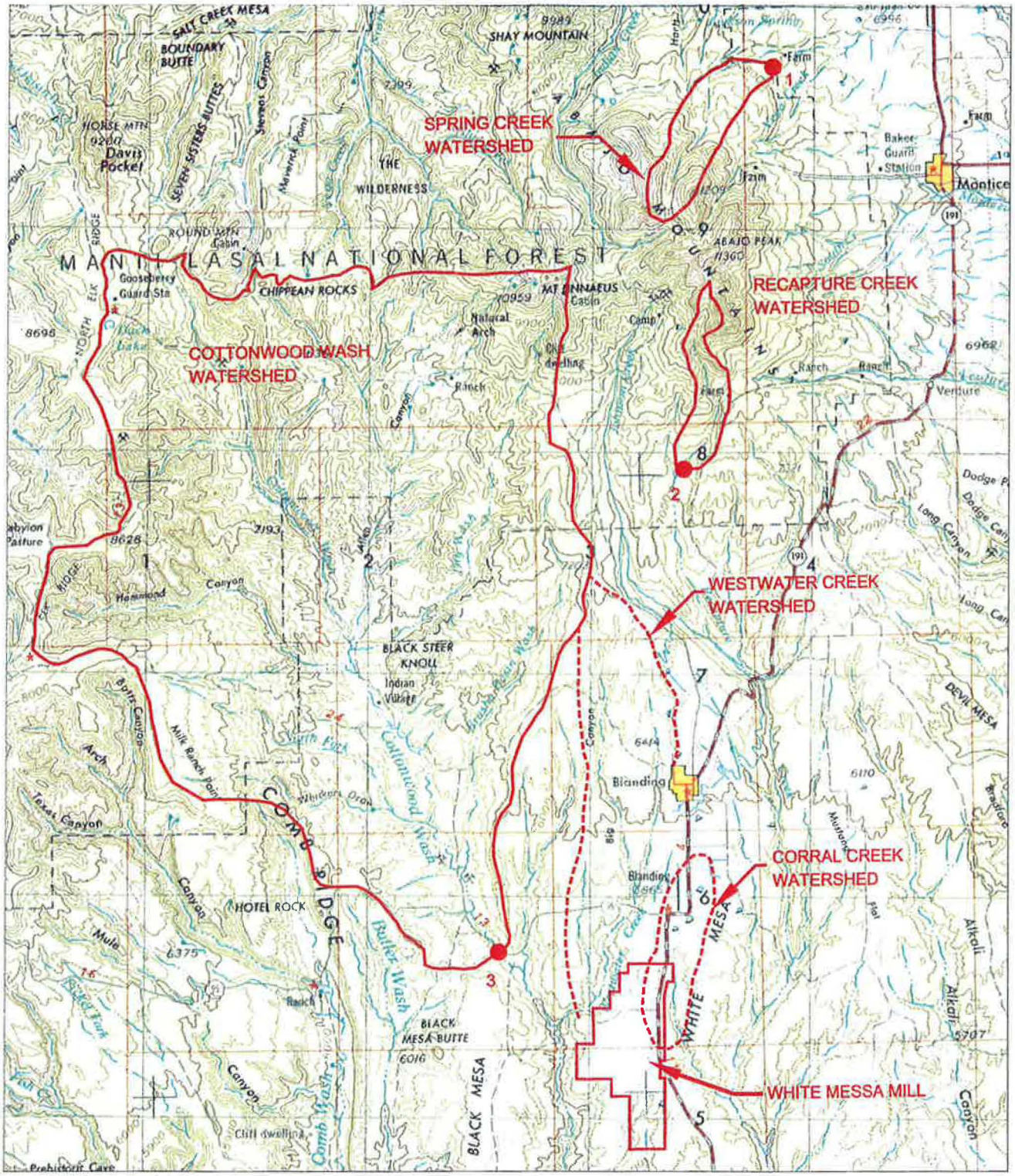
REVISIONS	
Date	By
10-11	GM

FIGURE 11

MILL SITE LAYOUT

Scale: 1"=200'	Date: May 12, 2000	traffic-pat
Author: unknown	Drafted By: SleddCad	

R:\Clients\Denison\VERIFY_Traffic-Pat - Standard\VERIFY_Traffic-Pat.dwg Updated GMoseley

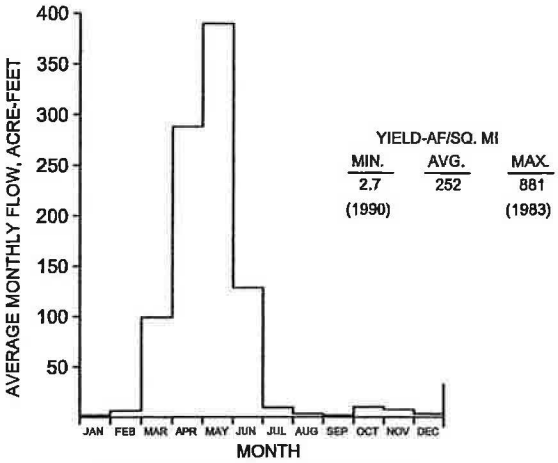


- 1 USGS GAUGE NO. 09376900
- 2 USGS GAUGE NO. 09378630
- 3 USGS GAUGE NO. 09378700

Denison Mines (USA) Corp.	DENISON MINES
Project	WHITE MESA MILL
REVISIONS	County: / State: UT
Date / By	Location:
	Figure 12 Drainage Map of the Vicinity of the White Mesa Mill
	Scale: 1:250,000 / Date: Aug 2009 / figure 12.dwg
	Author: bm / Drafted By: D.Sledd

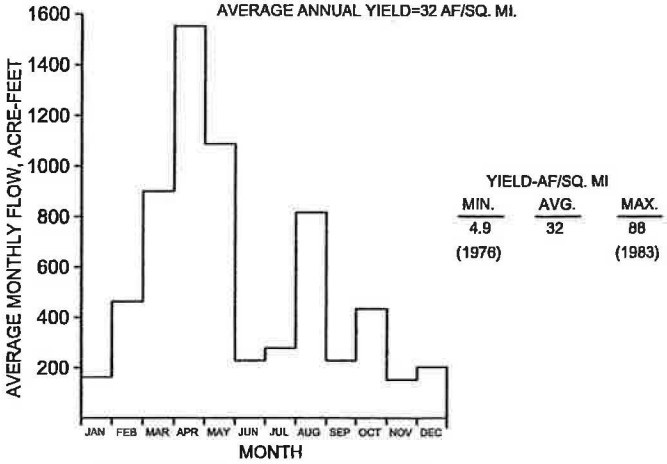
U:\2009 License Renewal Application - Figures\Figure 12.dwg Figure 12 31/08/2009 dsledd

AVERAGE ANNUAL FLOW=950 AF - (1966-2001)
DRAINAGE AREA=3.77 SQ. MI.
AVERAGE ANNUAL YIELD=252.1 AF/SQ. MI.



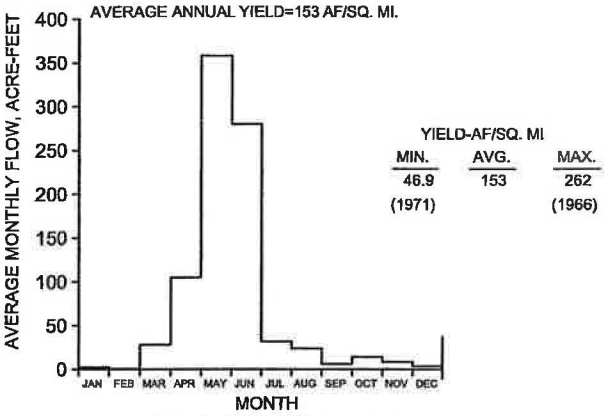
RECAPTURE CREEK NEAR BLANDING
USGS GAUGE 09378630

AVERAGE ANNUAL FLOW=6547 AF - (1965-1986)
DRAINAGE AREA=205 SQ. MI.
AVERAGE ANNUAL YIELD=32 AF/SQ. MI.



COTTONWOOD WASH NEAR BLANDING
USGS GAUGE 09378700

AVERAGE ANNUAL FLOW=7757 AF - (1966-1971)
DRAINAGE AREA=4.95 SQ. MI.
AVERAGE ANNUAL YIELD=153 AF/SQ. MI.



SPRING CREEK ABOVE DIVERSIONS,
USGS GAUGE 09376900

NOTES

1. FOR THE LOCATION OF WATER COURSES SUMMARIZED, SEE FIGURE 3.7-1
2. SOURCE OF DATA. WATER RESOURCES DATA RECORDS. COMPILED AND PUBLISHED BY USGS.

Denison Mines (USA) Corp.			
Project	WHITE MESA MILL		
REVISIONS	County:	State: UT	
Date / By	Location:		
	Figure 3.7-2 Streamflow Summary Blanding, UT Vicinity		
	Scale: N/A	Date: Feb. 2007	figure 3.7–2.dwg
	Author: bm	Drafted By: B. Munkhbaatar	

Z:\White Mesa Mill\... ...ose Renewal Application\Environmental Report - Figures\figure 3.7-2.dwg, Figure 3.7-2, 02/24/2007 3:48:21 PM, Adobe PDF.pc3, Letter