

LOCATION MAP
BISBEE - NACO AREA
BISBEE, ARIZONA

Approved	Date	Revised By	Date	File Name
KSW	1/11/07	KSW	7/20/07	8720013A
				Figure
				1



3.0 MILES

2.0

1.0

0.5

0.25

0.125

0.0625

0.03125

0.015625

0.0078125

0.00390625

0.001953125

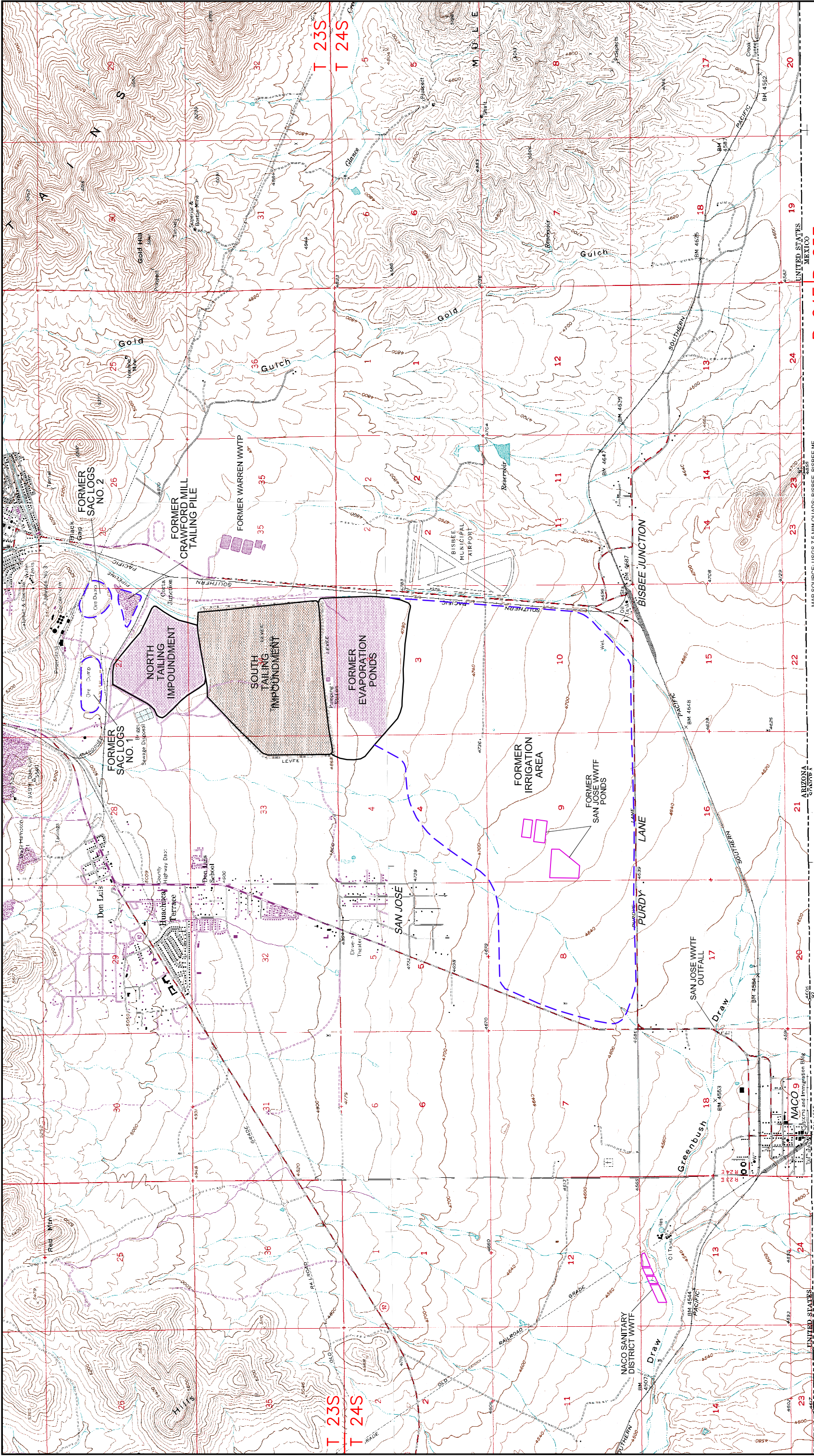
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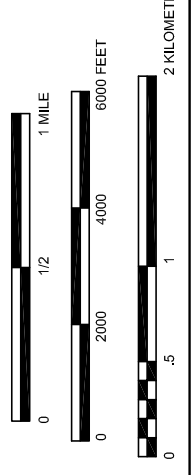
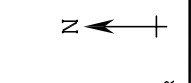
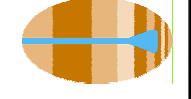
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0.00006103515625



MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE, AND NACO, ARIZONA. NAD 27 ZONE 12 CENTRAL METERS



Approved	Date	Revised By	Date	File Name	Figure
KSW	4/10/07	KSW	7/24/07	8720014A	2

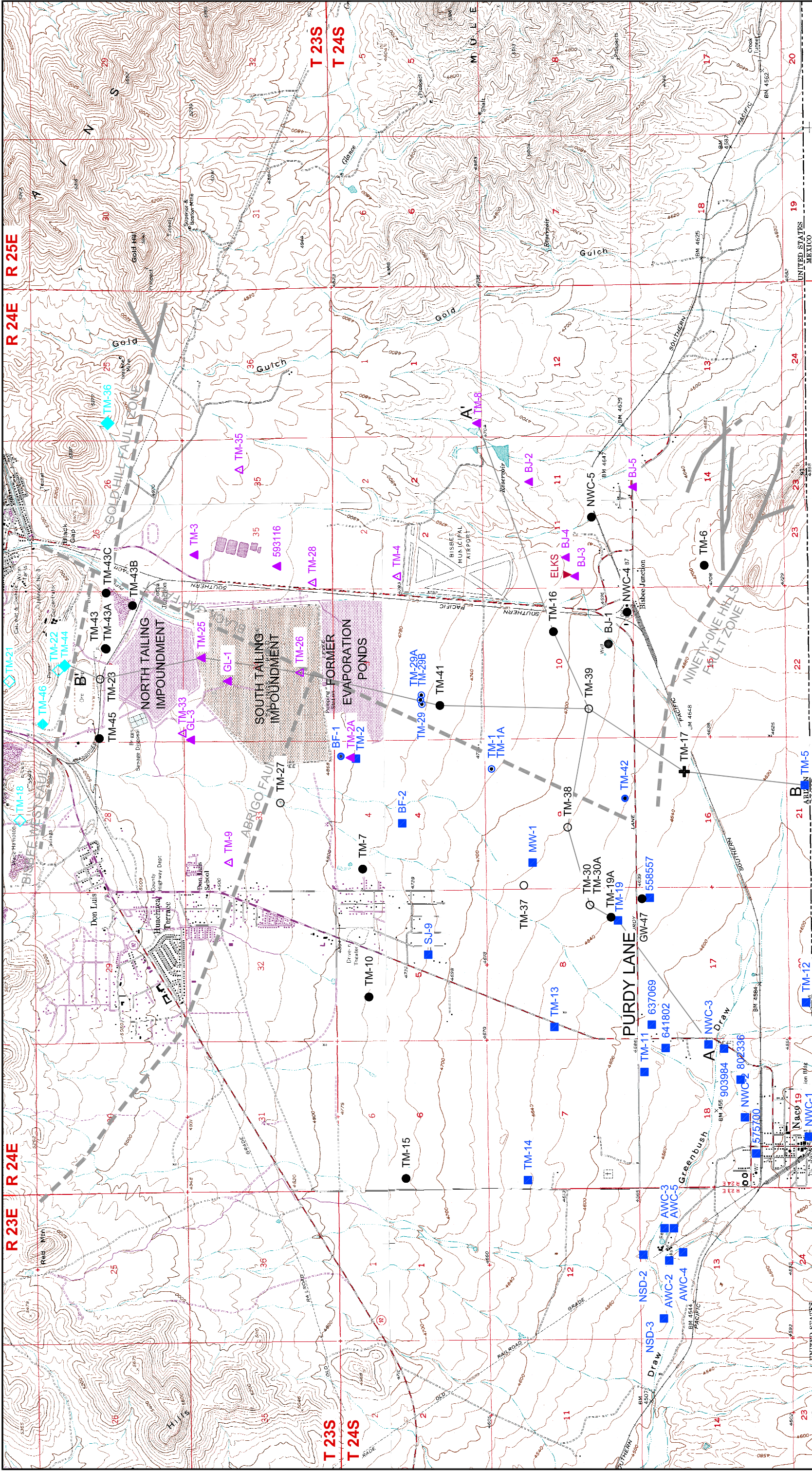
**FACILITIES IN THE VICINITY OF THE
CONCENTRATOR TAILING STORAGE AREA
BISBEE NACO AREA, ARIZONA, 2007**

-  CTSA FACILITY
-  FACILITY DISCUSSED IN TEXT

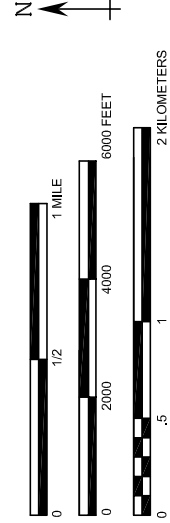
R 23B R 24E

R 24E R 25E

T 23S
T 24S



MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE, AND NACO, ARIZONA. NAD 27 ZONE 12 CENTRAL METERS



EXPLANATION

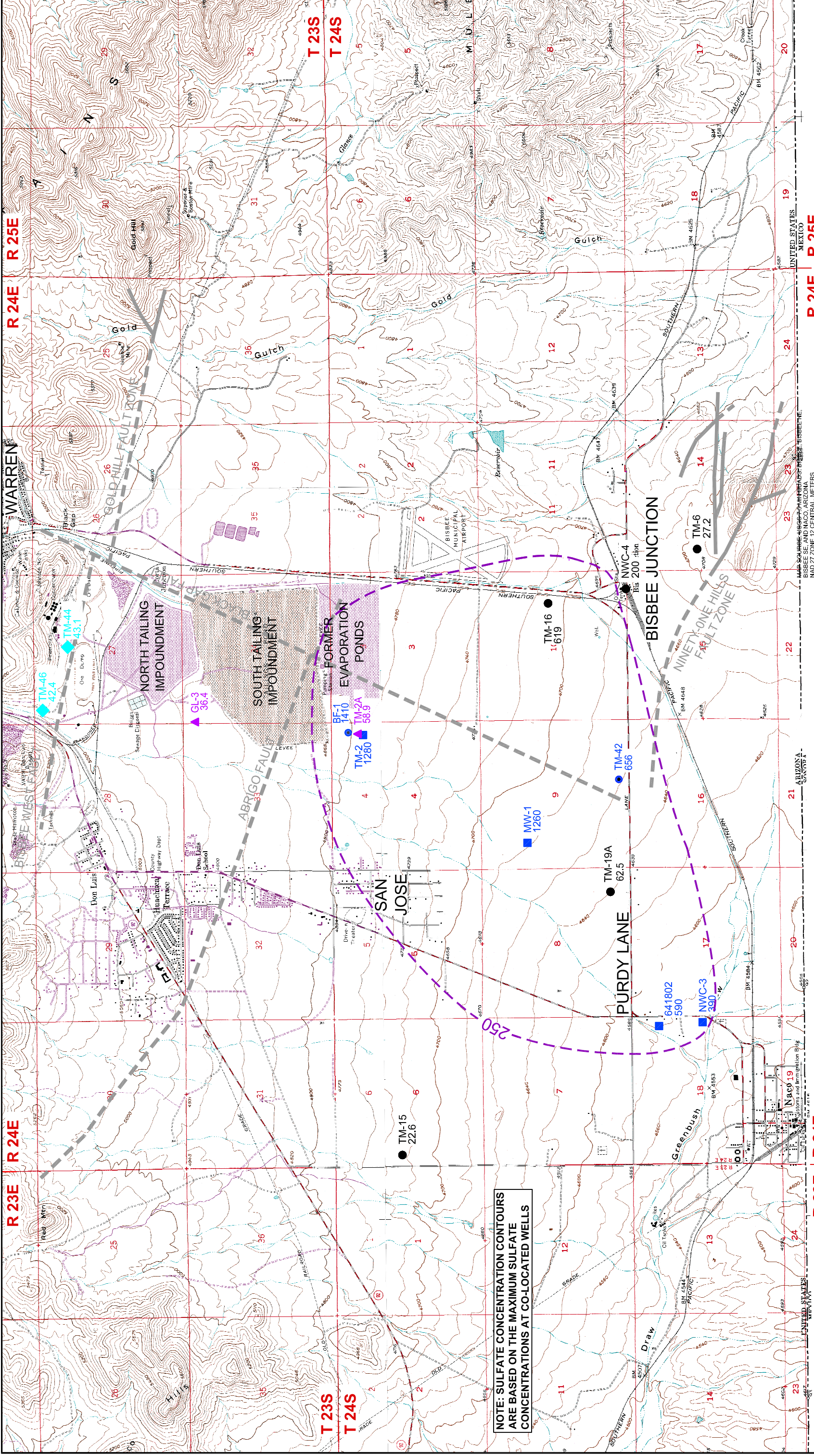
■	BASIN FILL	▲	UNKNOWN	■	TM-1	WELL AND WELL ID
○	MORITA FORMATION	○	OPEN SYMBOL	---		FAULT (DASHED WHERE INFERRED)
△	GLANCE CONGLOMERATE	○	DENOTES ABANDONED	---		FROM SET 1998c
◇	PALEOZOIC SEDIMENTS	○	WELL AS OF 2007			
●	MIXED, BASIN FILL & MORITA FORMATION					
+	MURAL LIMESTONE					



WELL LOCATION MAP
CONCENTRATOR TAILING STORAGE AREA AND VICINITY
BISBEE, ARIZONA

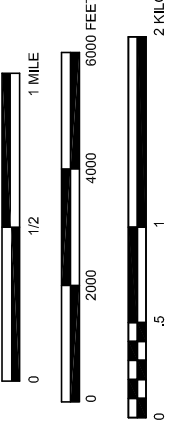
Approved	Date	Revised By	Date	File Name
JRN	4/4/07	KSW	07/12/07	8720002A

Figure **3**



NOTE: SULFATE CONCENTRATION CONTOURS ARE BASED ON THE MAXIMUM SULFATE CONCENTRATIONS AT CO-LOCATED WELLS

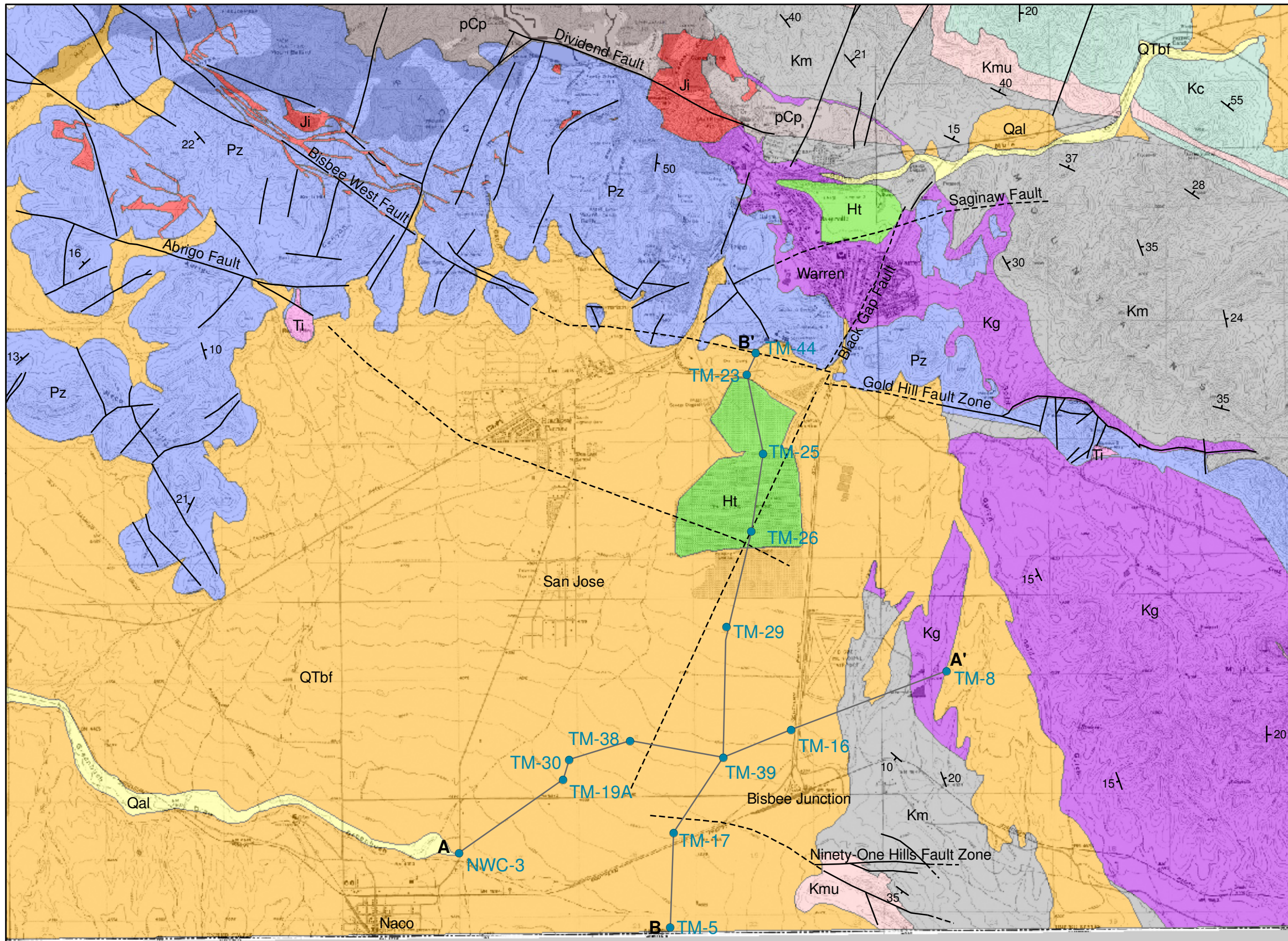
- EXPLANATION**
- BASIN FILL
 - MORITA FORMATION
 - ▲ GLANCE CONGLOMERATE
 - ▬ PALEOZOIC SEDIMENTS
 - ◐ MIXED, BASIN FILL AND MORITA FORMATION
 - +
 - UNKNOWN
 - ▬ FAULT (DASHED WHERE INFERRED) FROM SET 1998c
 - ▬ Sulfate, Dashed Where Uncertain
 - MW-1
 - Well ID, Sulfate Concentration



**SULFATE PLUME, 2005
APPROXIMATE BOUNDARY OF
250 mg/L SULFATE CONCENTRATION
BISBEE, ARIZONA**

Approved	Date	Revised By	Date	File Name	Figure
JRN	04/04/07	KSW	07/18/07	8720015A	4

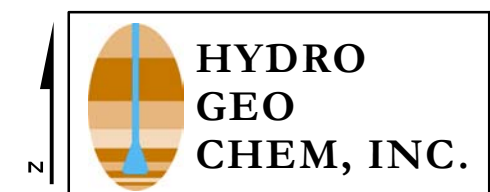
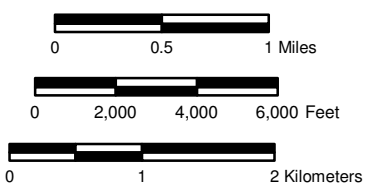
MAP SOURCE: 1960-70 AIR PHOTOGRAPHY, BISBEE, ARIZONA AND MARIQUITA, ARIZONA
NAD 27 ZONE 12 CENTRAL METERS



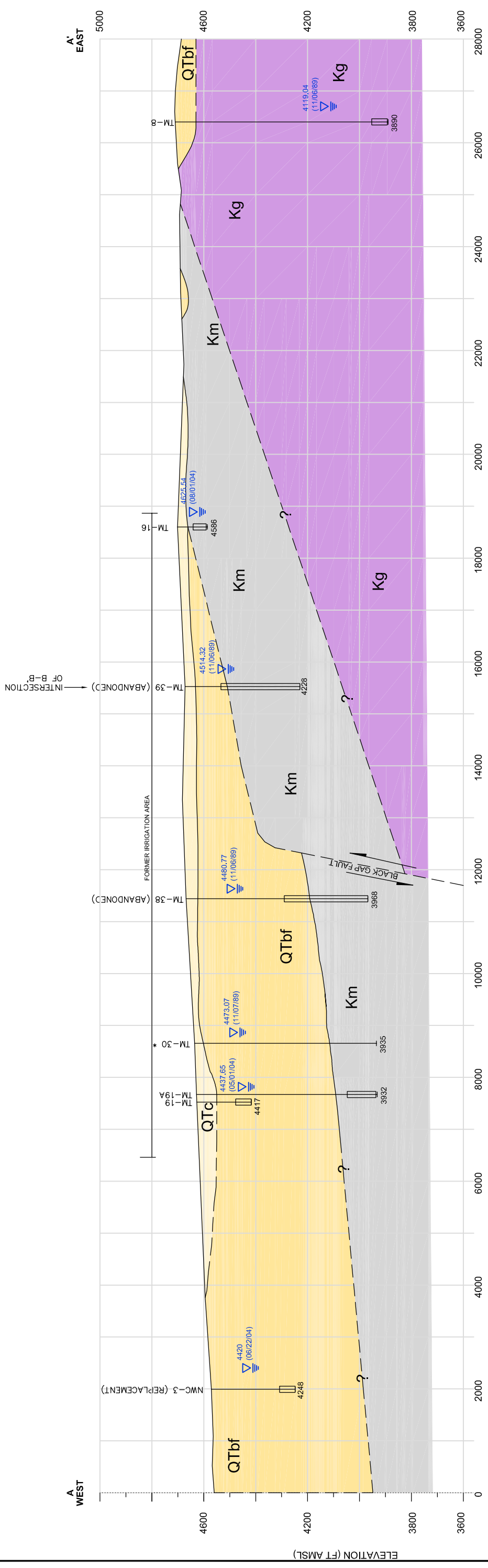
EXPLANATION

RECENT ALLUVIUM	
Ht	HOLOCENE MINE DUMPS AND TAILINGS
Qal	QUATERNARY ALLUVIUM
BASIN FILL	
QTbf	QUATERNARY - TERTIARY BASIN FILL
BEDROCK COMPLEX	
CRETACEOUS BISBEE GROUP	
Ti	TERTIARY INTRUSIVE
Kc	CINTURA FORMATION
Kmu	MURAL LIMESTONE
Km	MORITA FORMATION
Kg	GLANCE CONGLOMERATE
Ji	JURASSIC INTRUSIVE COMPLEX
Pz	PALEOZOIC SEDIMENTARY FORMATIONS, UNDIFFERENTIATED
pCp	PRECAMBRIAN PINAL SCHIST
FAULT (DASHED WHERE INFERRED)	
T/37	STRIKE AND DIP OF BEDDING
●	WELL OR BOREHOLE

SOURCES: GEOLOGY FROM HAYES AND LANDIS (1964)
 FAULT PROJECTIONS FROM SET (1998c)



GEOLOGICAL MAP OF THE CTSA AND VICINITY BISBEE, ARIZONA					
Approved KSW	Date 04/11/07	Reviewed By KSW	Date 07/20/07	File Name 8720005G	Figure 5



EXPLANATION

- QTc — QUATERNARY - TERTIARY CALICHE CEMENTED BASIN FILL
- QTbf — QUATERNARY - TERTIARY BASIN FILL
- Km — CRETACEOUS MORITA FORMATION
- Kg — CRETACEOUS GLANCE CONGLOMERATE
- FAULT, DASHED WHERE INFERRED
- - - - - FORMATION CONTACT, DASHED WHERE INFERRED
- * — GEOLOGIC BOREHOLE, NOT COMPLETED AS WELL

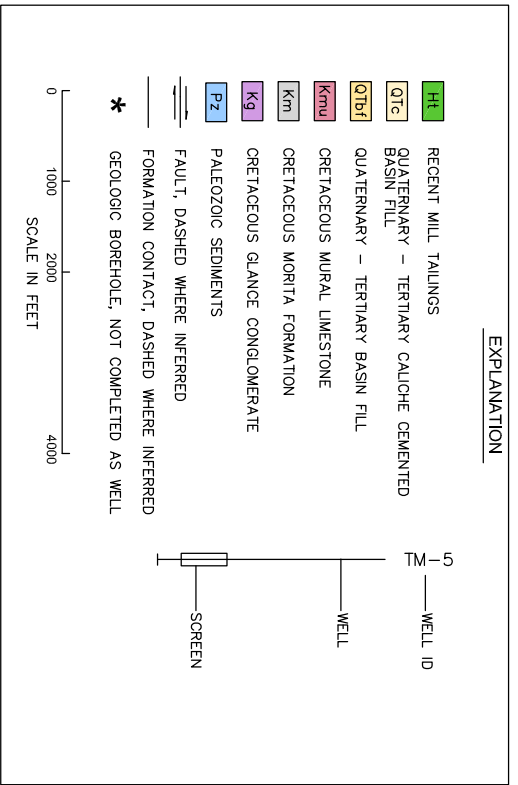
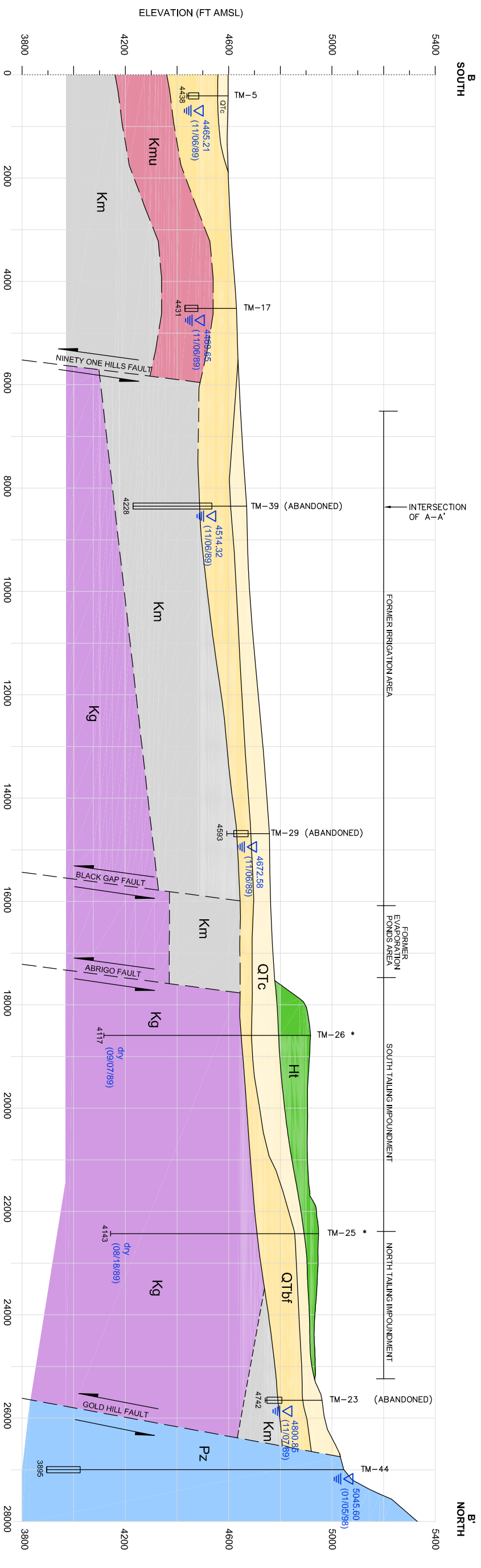
TM-19A — WELL ID
 ——— WELL
 ▽ (DATE) — WATER LEVEL
 [] — SCREEN

0 1000 2000 4000
SCALE IN FEET



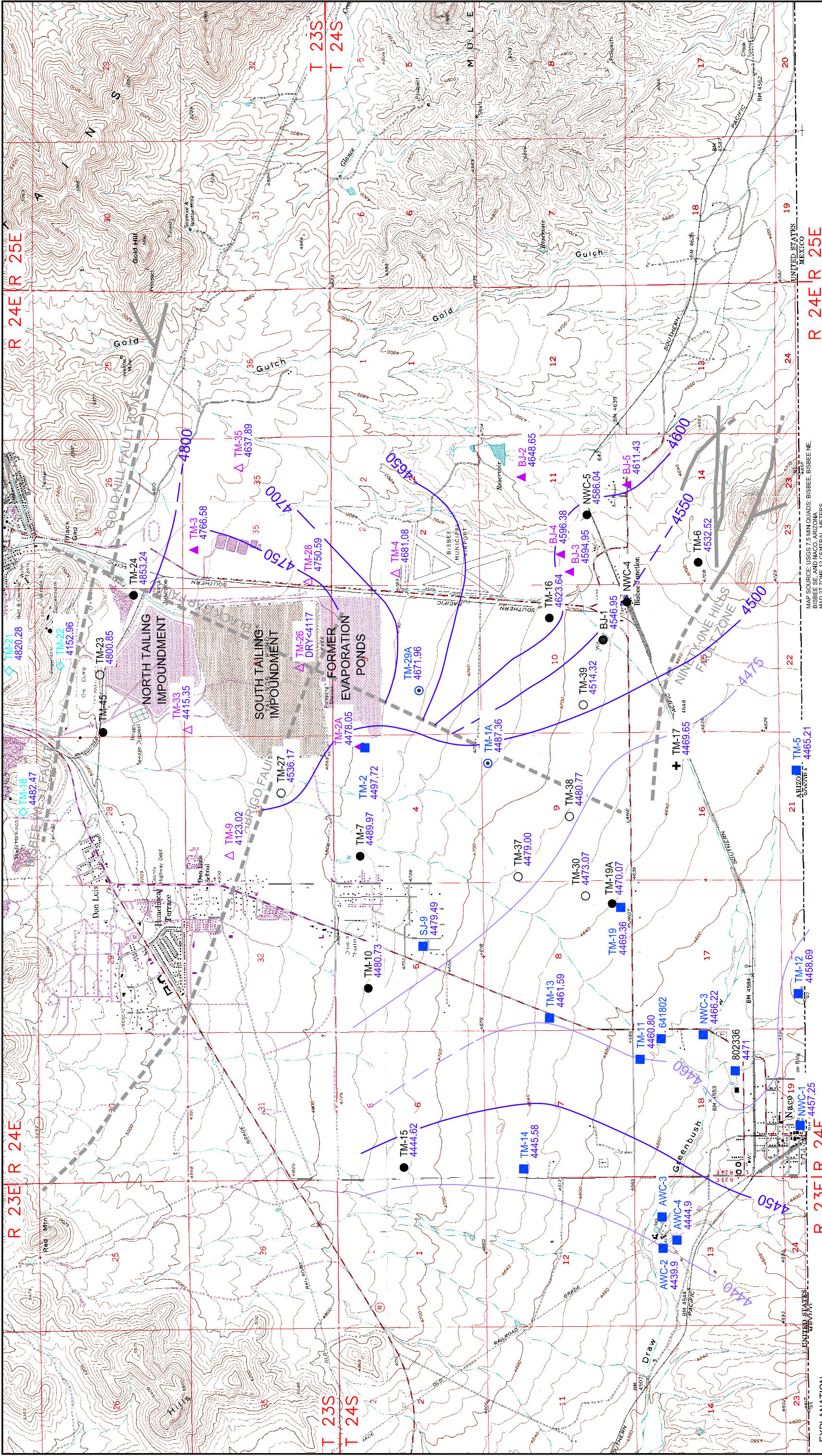
**A-A' GEOLOGICAL CROSS SECTION
BISBEE-NACO AREA, ARIZONA**

Approved KSW	Date 3/19/07	Revised By KSW	Date 07/17/07	File Name 8720017A	Figure 6
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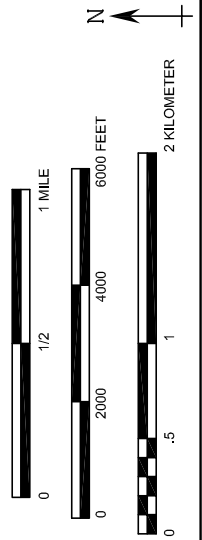
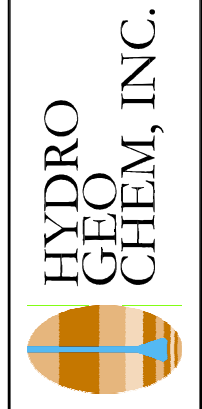
**B-B' GEOLOGICAL CROSS SECTION
BISBEE-NACO AREA BISBEE, ARIZONA**

Approved	Date	Revised By	Date	File Name	Figure
KSW	03/19/07	KSW	06/30/08	8720016A	7



MAP SOURCE: USGS 7.5 MIN QUADS: BISBEE, BISBEE NE, BISBEE SE AND NACO, ARIZONA
 NAD 27 ZONE 12 CENTRAL METERS

WATER LEVEL MAP 1989	
CONCENTRATOR TAILING STORAGE AREA AND VICINITY	
BISBEE, ARIZONA	
Approved	Revised By
KSW	KSW
Date	Date
4/4/07	7/12/07
File Name	Figure
8720007A	8



EXPLANATION	
■	TM-1 WELL ID
●	4443.2 WATER ELEVATION (FT AMSL)
○	WATER CONTOUR LINE (DASHED WHERE INFERRED)
○	INTERMEDIATE WATER CONTOUR LINE (DASHED WHERE INFERRED)
○	WHERE INFERRED
○	FAULT (DASHED WHERE INFERRED) FROM SET 1998C
+	OPEN SYMBOL DENOTES ABANDONED WELL AS OF 2007
■	BASIN FILL
●	MORITA FORMATION
○	GLANCE CONGLOMERATE
○	PALEOZOIC SEDIMENTS
○	MIXED, BASIN FILL & MORITA FORMATION
○	MURAL LIMESTONE