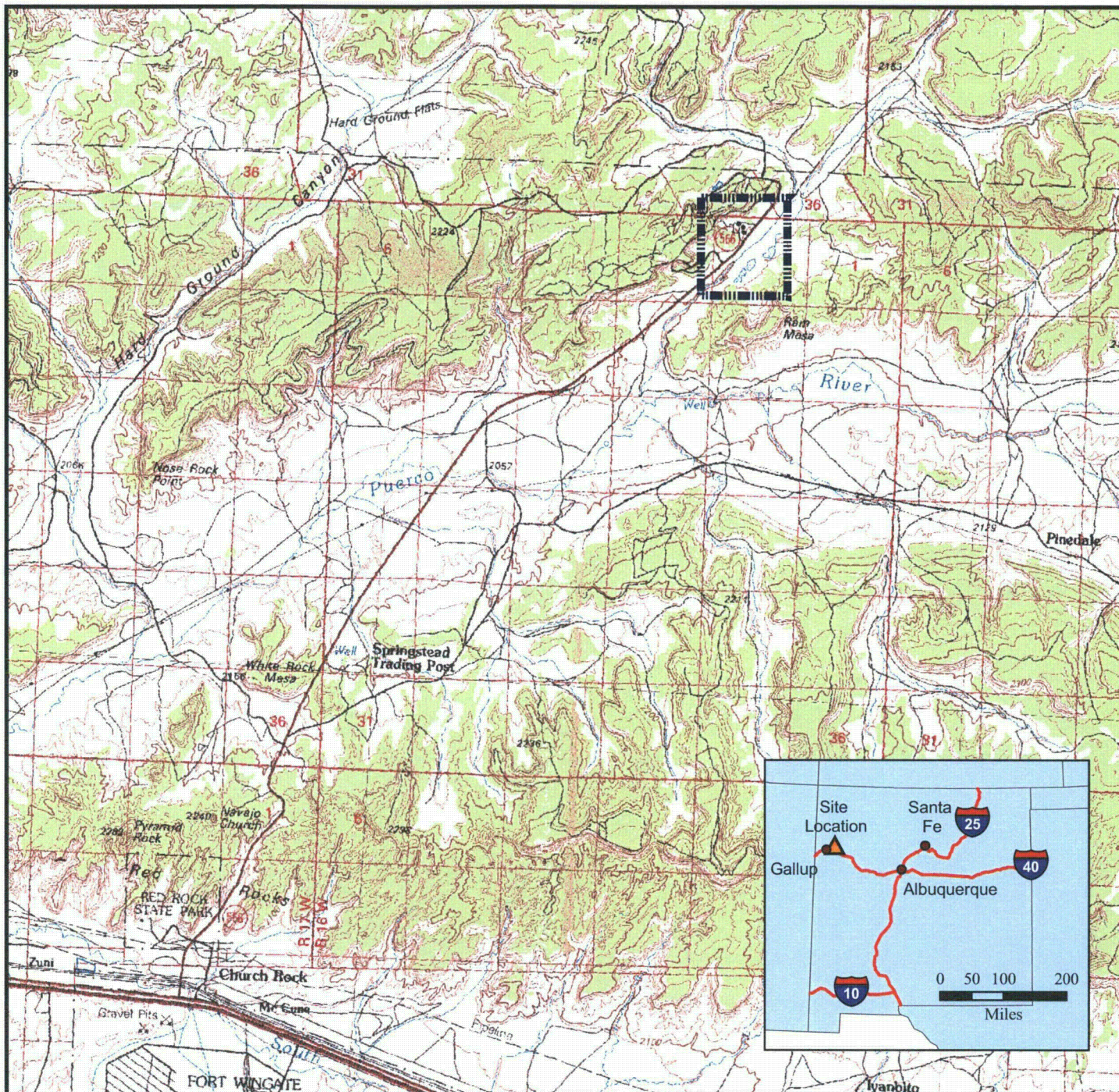


Figures



LEGEND

■ ■ ■ ■ ■ Approximate Site Location

NEW MEXICO INSET LEGEND

- Major City
- ▲ Church Rock Site Location
- Interstate Highway
- State Boundary

Notes:

1. Topographic basemap taken from the United States Geologic Survey 30x60 minute, 1:100,000 scale, Gallup, New Mexico Topographic Map, 1981.
2. Data for New Mexico Inset map taken from ESRI Data & Maps 2002 CD-ROM set.

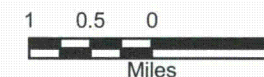
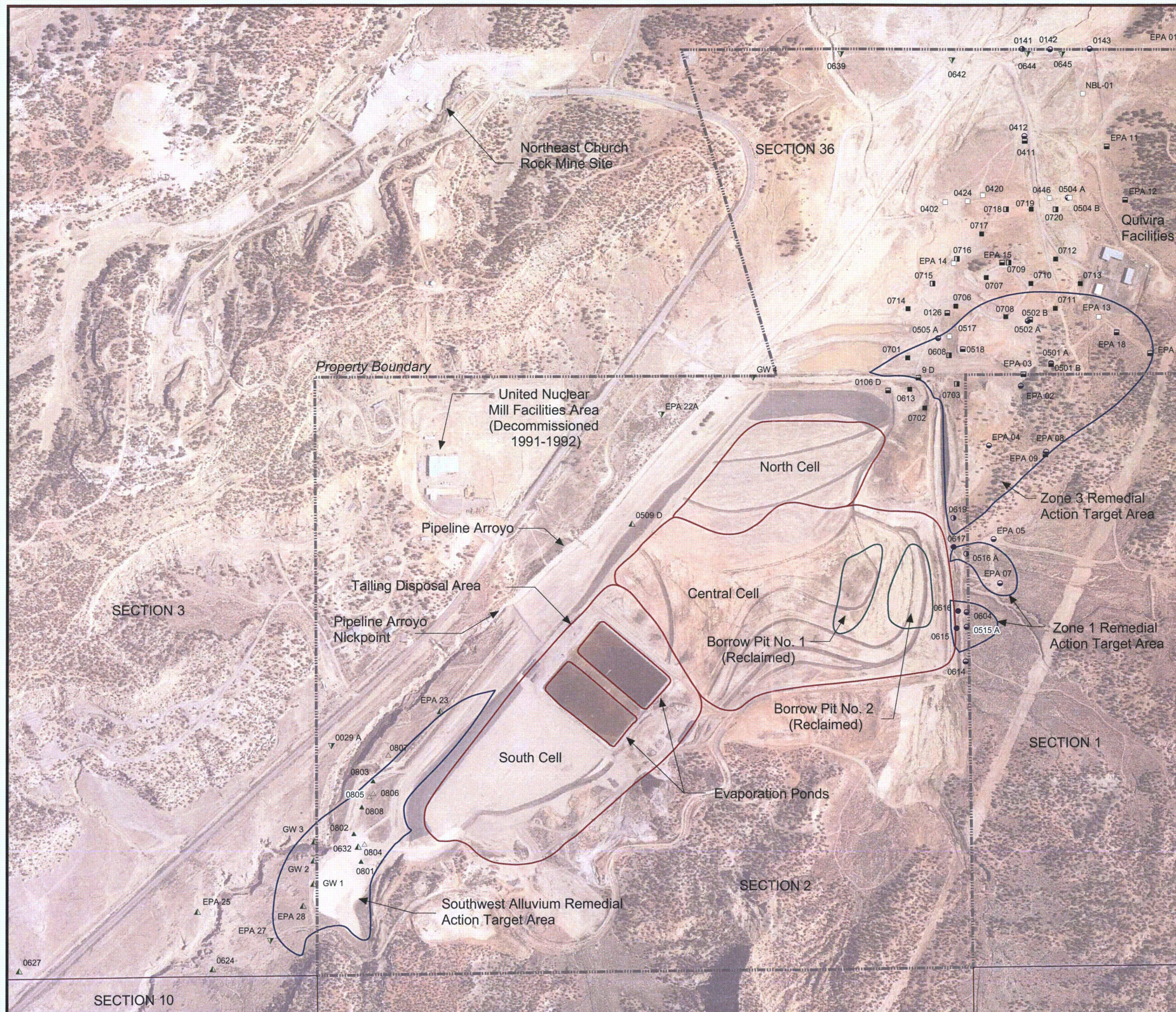


FIGURE 1

Site Location Map

United Nuclear Corporation Church Rock
Site, Church Rock, New Mexico





Legend

Southwest Alluvium

- ▲ Idled Extraction Well
- ▲ Monitoring Well
- △ Water Level Monitoring Well
- ▼ Dry Monitoring Well

Zone 3

- Idled Extraction Well Used for Monitoring
- Decommissioned or Idle Extraction Well
- Monitoring Well
- Dry or Decommissioned Monitoring Well

Zone 1

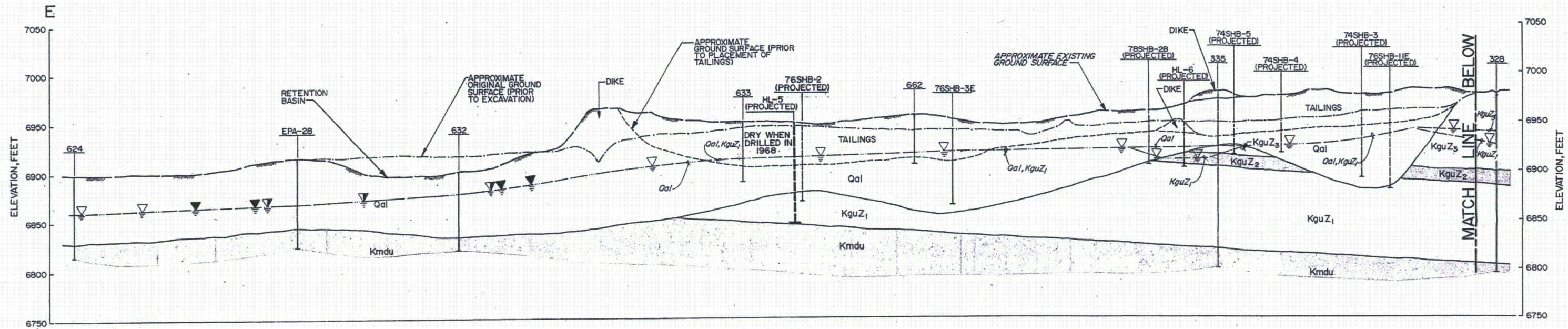
- Decommissioned Extraction Well
- Decommissioned Monitoring Well
- Monitoring Well

FIGURE 2

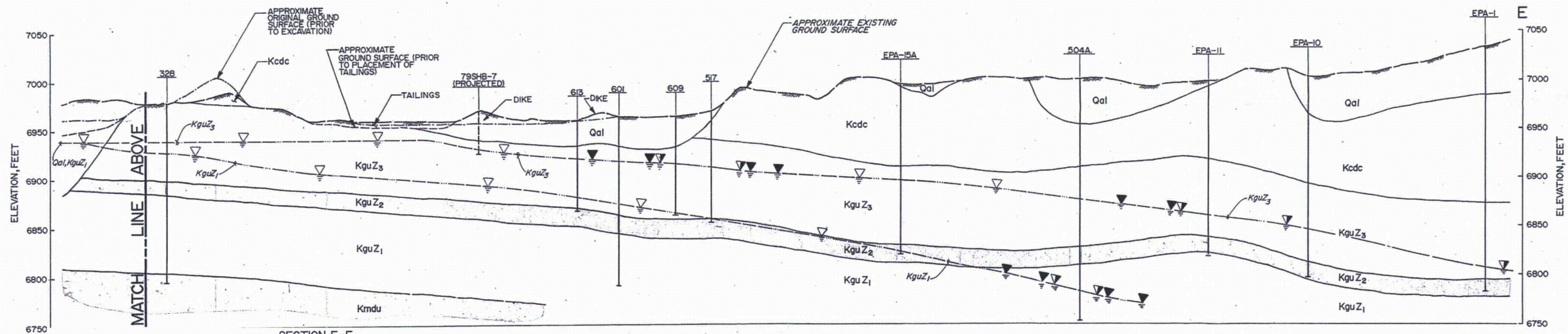
Site Layout and Performance
Monitoring Well Locations
2010 Operating Year

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico





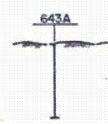
SECTION E-E
(LOOKING NORTHWEST)



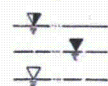
SECTION E-E
(LOOKING NORTHWEST)

SECTION E-E
(LOOKING NORTHWEST)

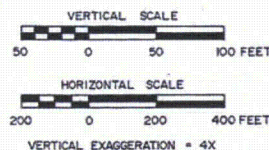
- LEGEND:**
- QUATERNARY
 - Qal ALLUVIUM
 - Kdc CREVASSE CANYON FORMATION
 - KguZ3 DILCO COAL MEMBER
 - UPPER CRETACEOUS
 - KguZ3 UPPER GALLUP SANDSTONE-ZONE 3
 - KguZ2 UPPER GALLUP SANDSTONE-ZONE 2
 - KguZ1 UPPER GALLUP SANDSTONE-ZONE 1
 - Kmdu MANCOS SHALE-UPPER D-CROSS TONGUE MEMBER



BOREHOLE FOR EXACT ELEVATION AND DEPTH REFER TO APPENDIX A.



MEASURED WATER LEVEL, MAY 1986
INFERRED WATER LEVEL, MAY 1986
ESTIMATED WATER LEVEL FROM CONTOURS SHOWN ON FIGURES 3-1, 3-2 AND 3-3.



N.A. WATER SYSTEMS

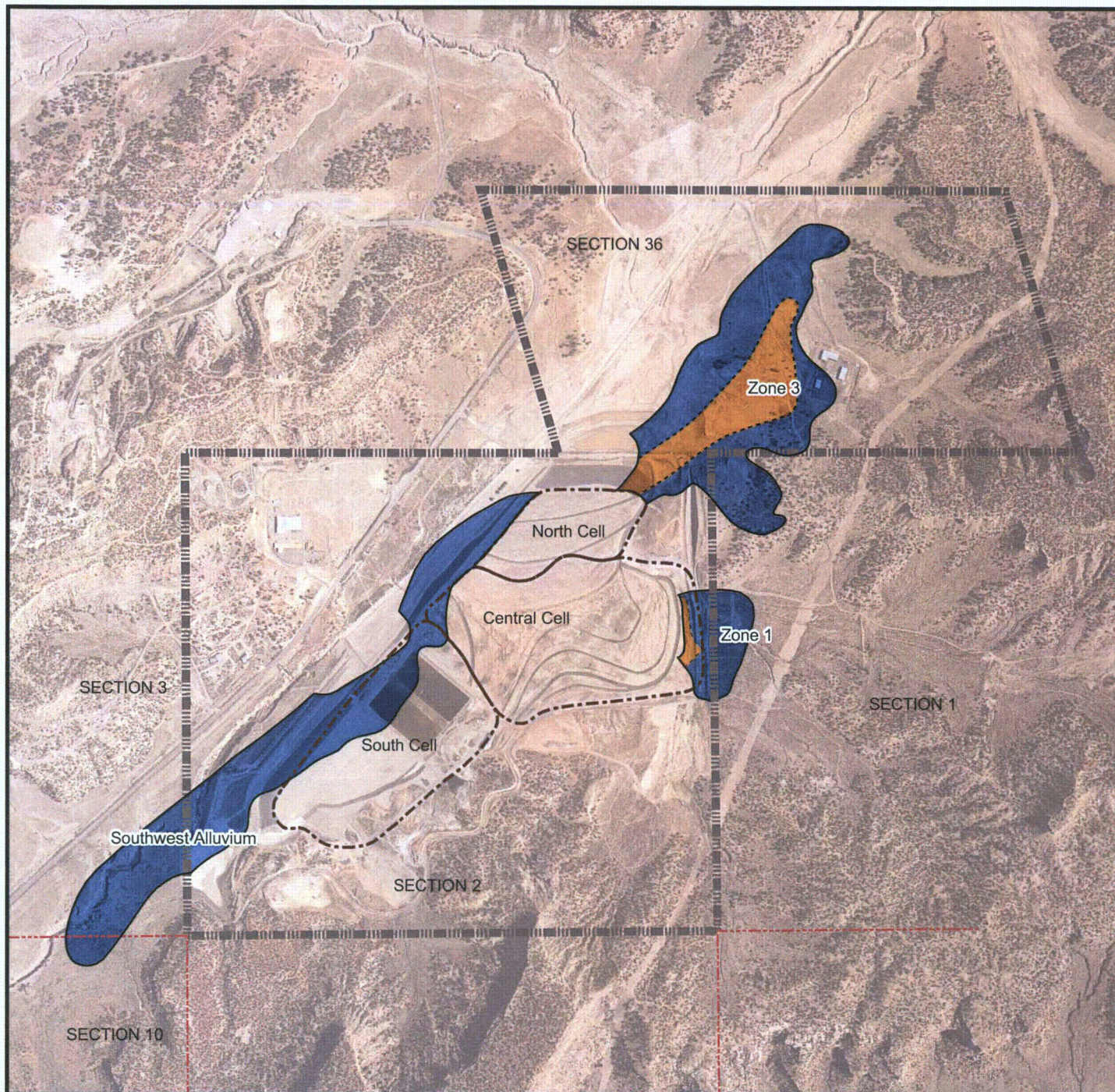
1315 West College Ave., Suite 100
State College, PA 16801



Solutions & Technologies

ALL INFORMATION CONTAINED ON THIS DOCUMENT IS THE PROPERTY OF N.A. WATER SYSTEMS. THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN ARE PROPRIETARY TO N.A. WATER SYSTEMS AND ARE SUBMITTED IN CONFIDENCE. THEY ARE NOT TRANSFERABLE AND MUST BE USED ONLY FOR THE PURPOSE FOR WHICH THE DOCUMENT IS EXPRESSLY SUBMITTED. THEY MUST NOT BE DISCLOSED, REPRODUCED, LOANED OR USED IN ANY OTHER MANNER WITHOUT THE EXPRESS WRITTEN CONSENT OF N.A. WATER SYSTEMS. N.A. WATER SYSTEMS ASSUMES NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THIS DOCUMENT OR THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN FOR ANOTHER PROJECT, OR IN A MANNER THAT DOES NOT RELATE TO THE FITNESS OR PURPOSE OF THIS DOCUMENT. IN NO EVENT SHALL THIS DOCUMENT OF THE DESIGN CONCEPTS AND INFORMATION CONTAINED HEREIN BE USED IN ANY MANNER DETRIMENTAL TO THE INTEREST OF N.A. WATER SYSTEMS. ALL PATENT RIGHTS ARE RESERVED. ACCEPTANCE OF THE DELIVERY OF THIS DOCUMENT CONSTITUTES AGREEMENT TO THESE TERMS AND CONDITIONS.

SCALE	
TITLE	Geologic Cross-Section along a Northeast-Southwest Line
	From Canonic Environmental, May 1987, Geohydrologic Report, Figure 2-6
CONTRACT NO.	56007747
DWG NO.	Figure 4
REV	



LEGEND

- Section Boundary
- ==== Property Boundary
- Tails Pond
- Orange Groundwater with pH ≤ 4
- Blue Seepage-Impacted Groundwater

Aerial photo taken on
August 1, 1996.

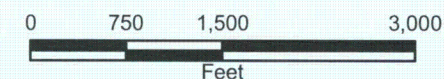


FIGURE 5

Extent of Seepage-Impacted
Groundwater, October 2010

United Nuclear Corporation Church Rock Site
Church Rock, New Mexico



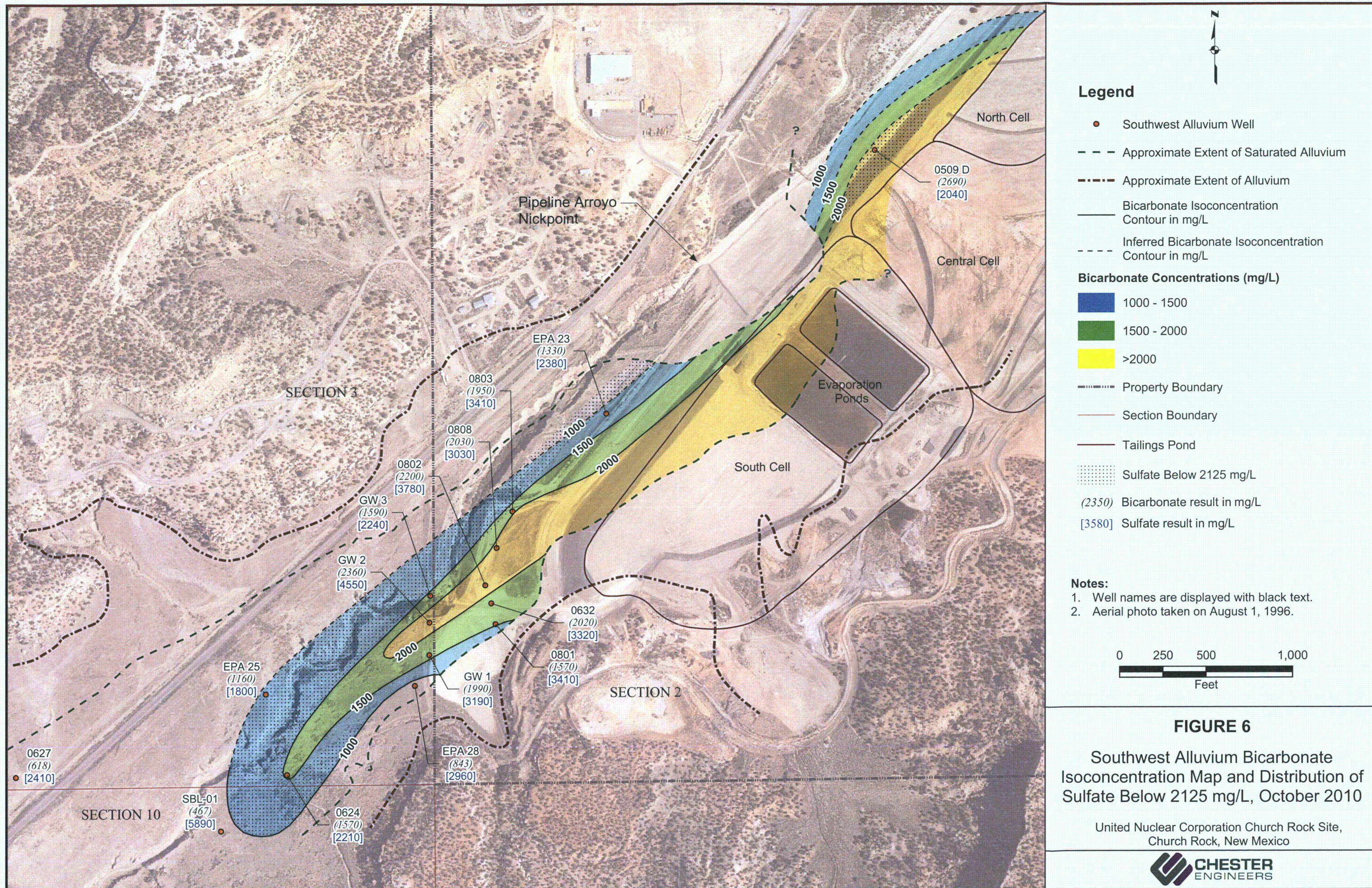
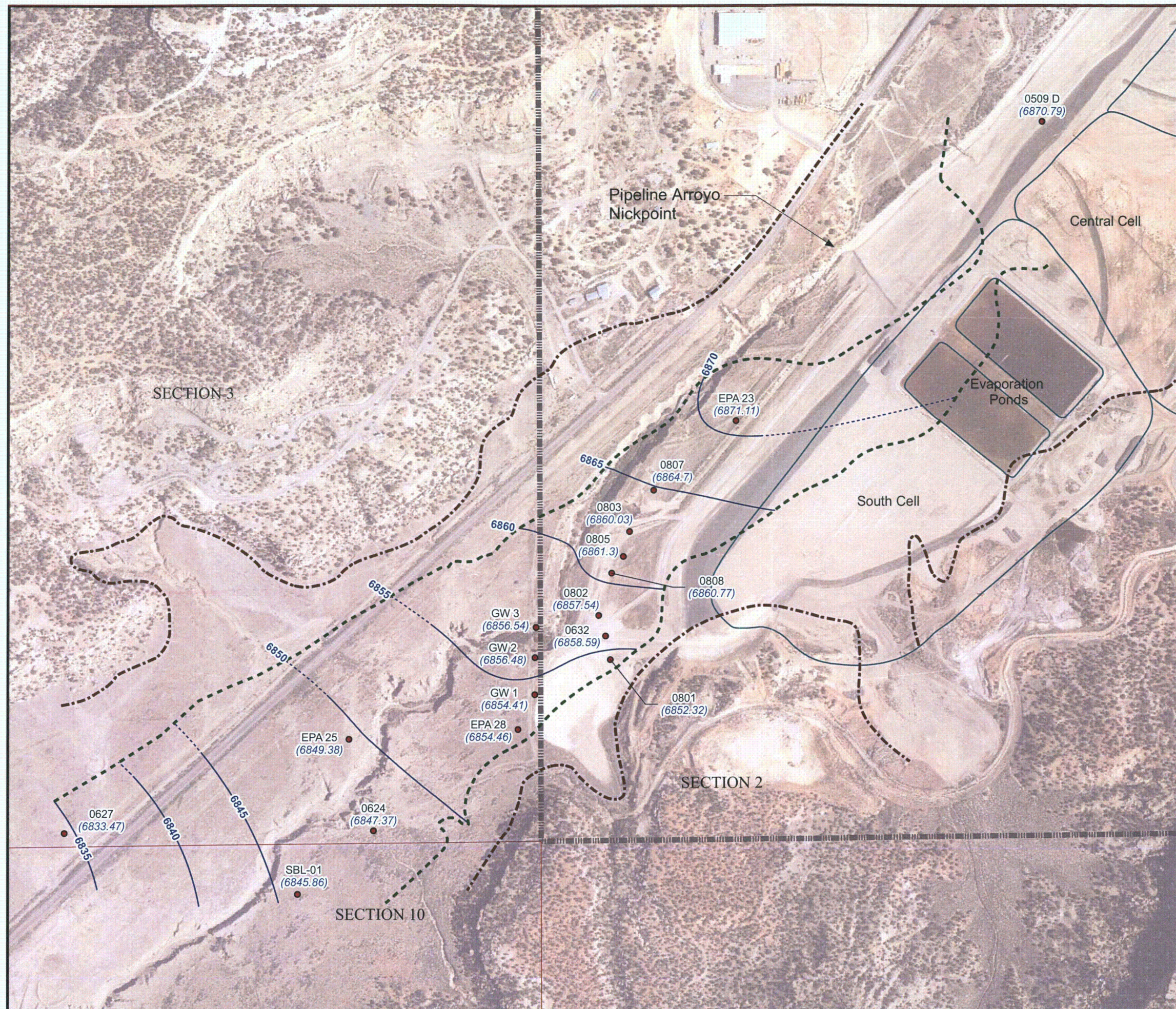


FIGURE 6

Southwest Alluvium Bicarbonate
Isoconcentration Map and Distribution of
Sulfate Below 2125 mg/L, October 2010

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico





Legend

- Southwest Alluvium Monitoring Well
- Groundwater Elevation Contour
- - - Inferred Groundwater Elevation Contour
- - - Approximate Extent of Alluvium
- - - Approximate Extent of Saturated Alluvium
- ▤ Property Boundary
- Section Boundary
- Cell Boundary

Notes:

1. Groundwater elevation values are displayed in feet above mean sea level.
2. Well names are displayed with black text.
3. Groundwater elevations are shown with blue text and enclosed in parentheses.
4. Aerial photo taken on August 1, 1996.

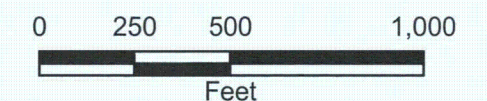
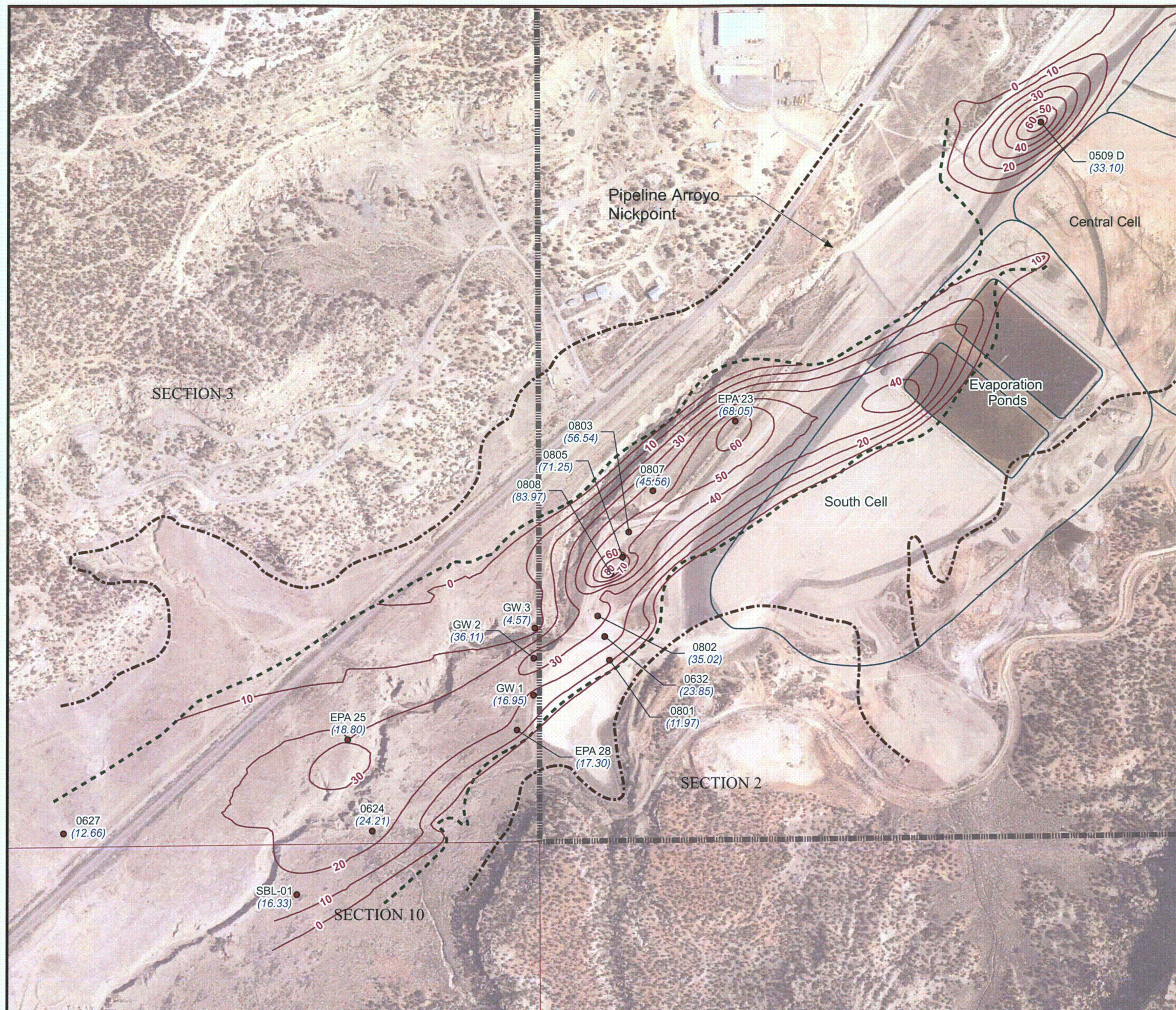


FIGURE 7

Southwest Alluvium Potentiometric Surface Map October 2010

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico





Legend

- Southwest Alluvium Monitoring Well
- Approximate Extent of Alluvium
- - - Approximate Extent of Saturated Alluvium
- ||||| Property Boundary
- Section Boundary
- Cell Boundary
- Saturated Thickness Contours (feet)

Notes:

1. Well names are displayed with black text.
2. Saturated thicknesses (feet) are shown with blue text and enclosed in parentheses.
3. Aerial photo taken on August 1, 1996.
4. The posted value of saturated thickness at well 0509 D derives from reference to the screen bottom. The alluvium extends as much as 38 feet below this depth in the vicinity of this well.

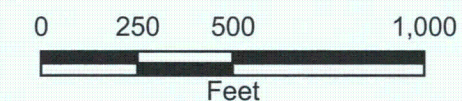


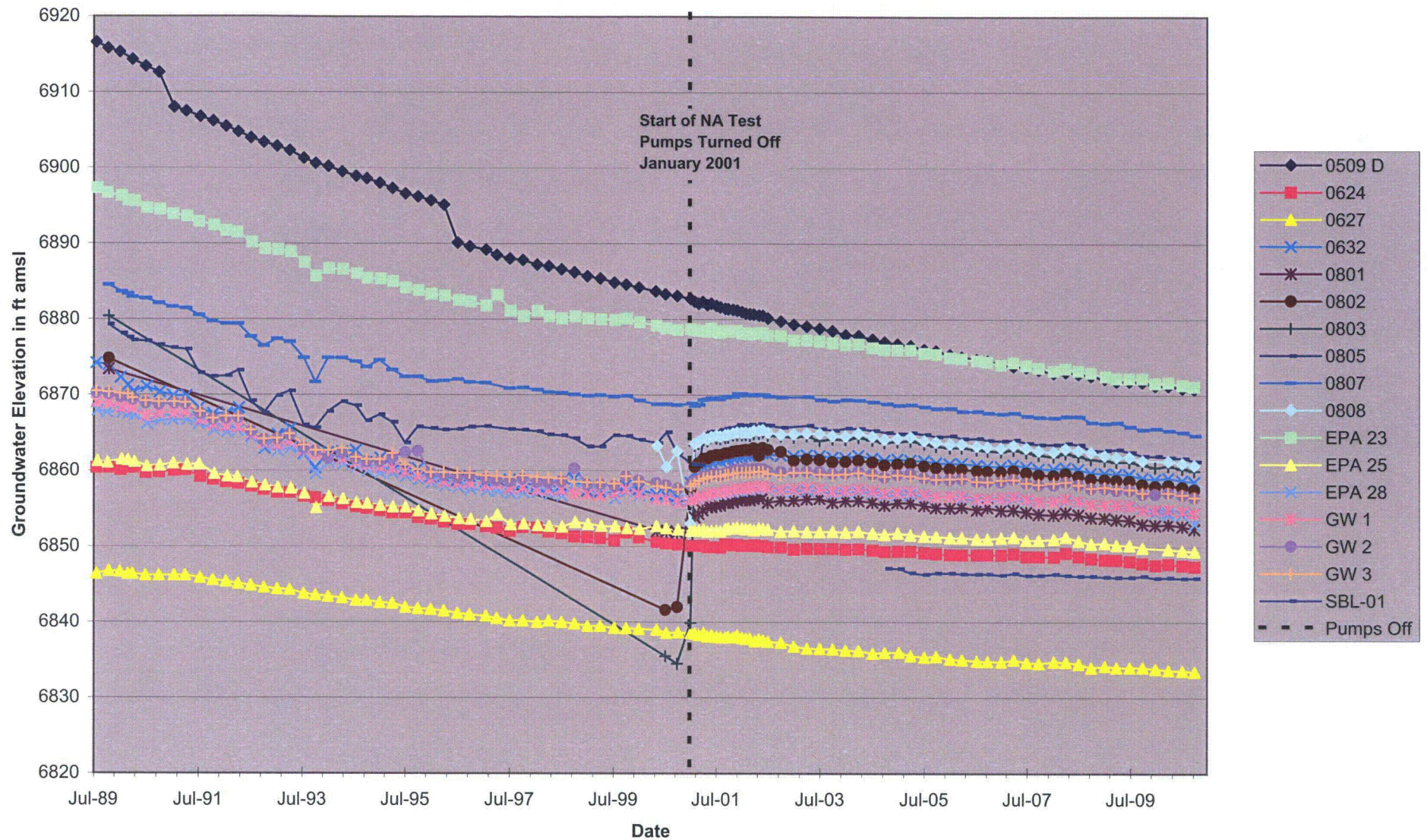
FIGURE 8

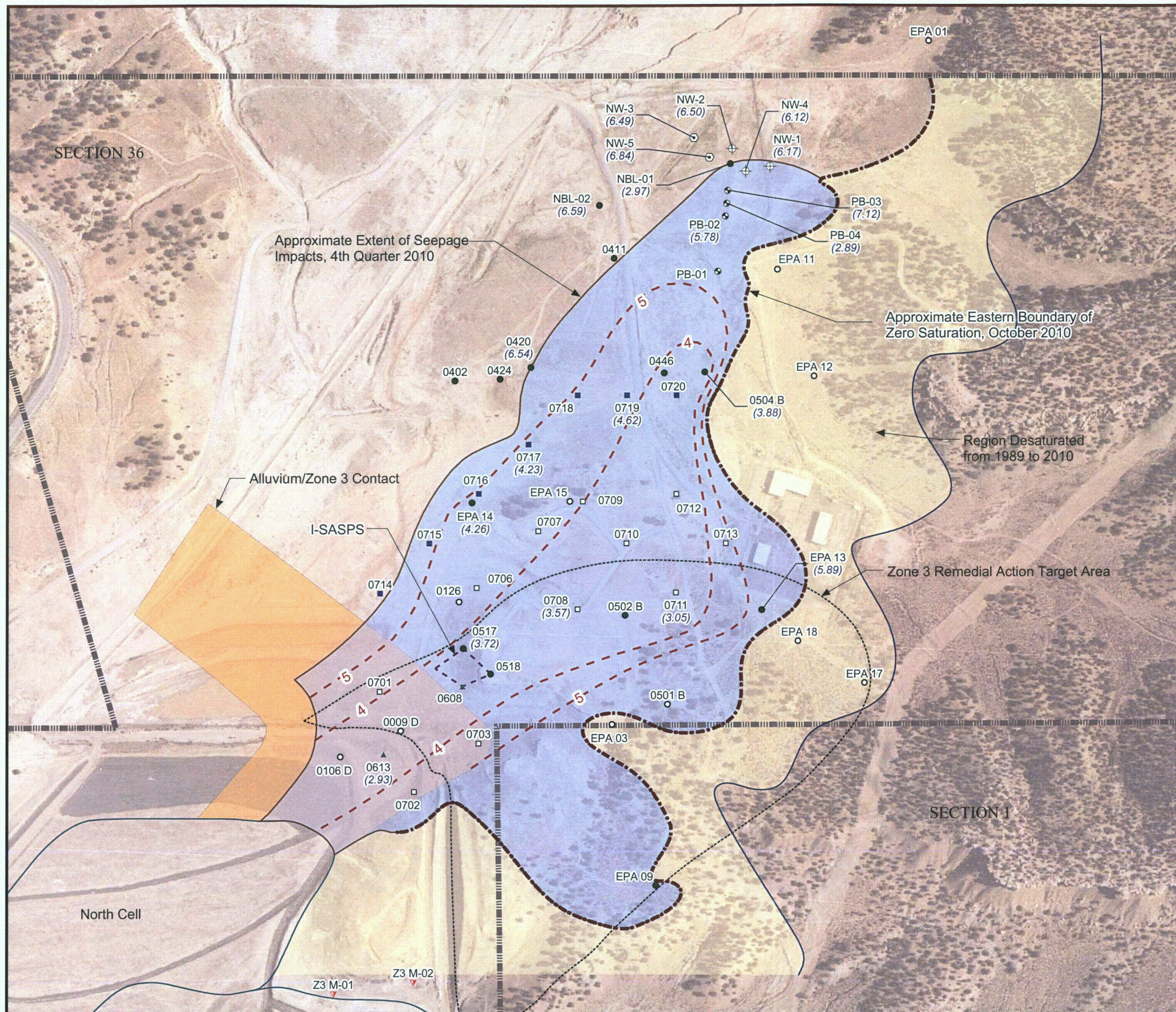
Southwest Alluvium Saturated Thickness Map October 2010

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico



FIGURE 9
 Southwest Alluvium Water Levels Over Time
 United Nuclear Corporation, Church Rock Site, Church Rock New Mexico





Legend

- Property Boundary
 - Zone 3 Target Remedial Action Area
 - Section Boundary
 - Cell Boundary
 - Approximate Area Impacted by Tailings Seepage
- Well Type**
- Monitoring
 - Northernmost Pumping Wells
 - Northernmost Pumping Wells (Off)
 - Dry Monitoring
 - Stage I Extraction
 - Stage II Extraction
 - Plume Boundary
 - Northeast Pump-Back
 - Piezometer
 - Approximate Eastern Boundary of Zero Saturation
 - pH contour
 - I-SASPS

- Notes:**
- Well names are displayed with black text.
 - Values for field measured pH are shown with purple text and enclosed in parentheses.
 - Aerial photo taken on August 1, 1996.
 - I-SASPS is defined as "In-Situ Alkalinity Stabilization Pilot Study, 2006-2007."

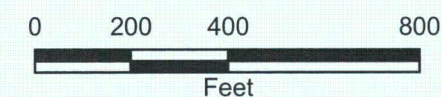
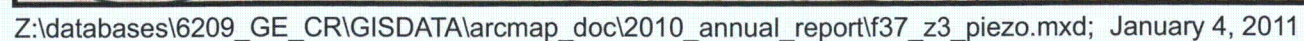


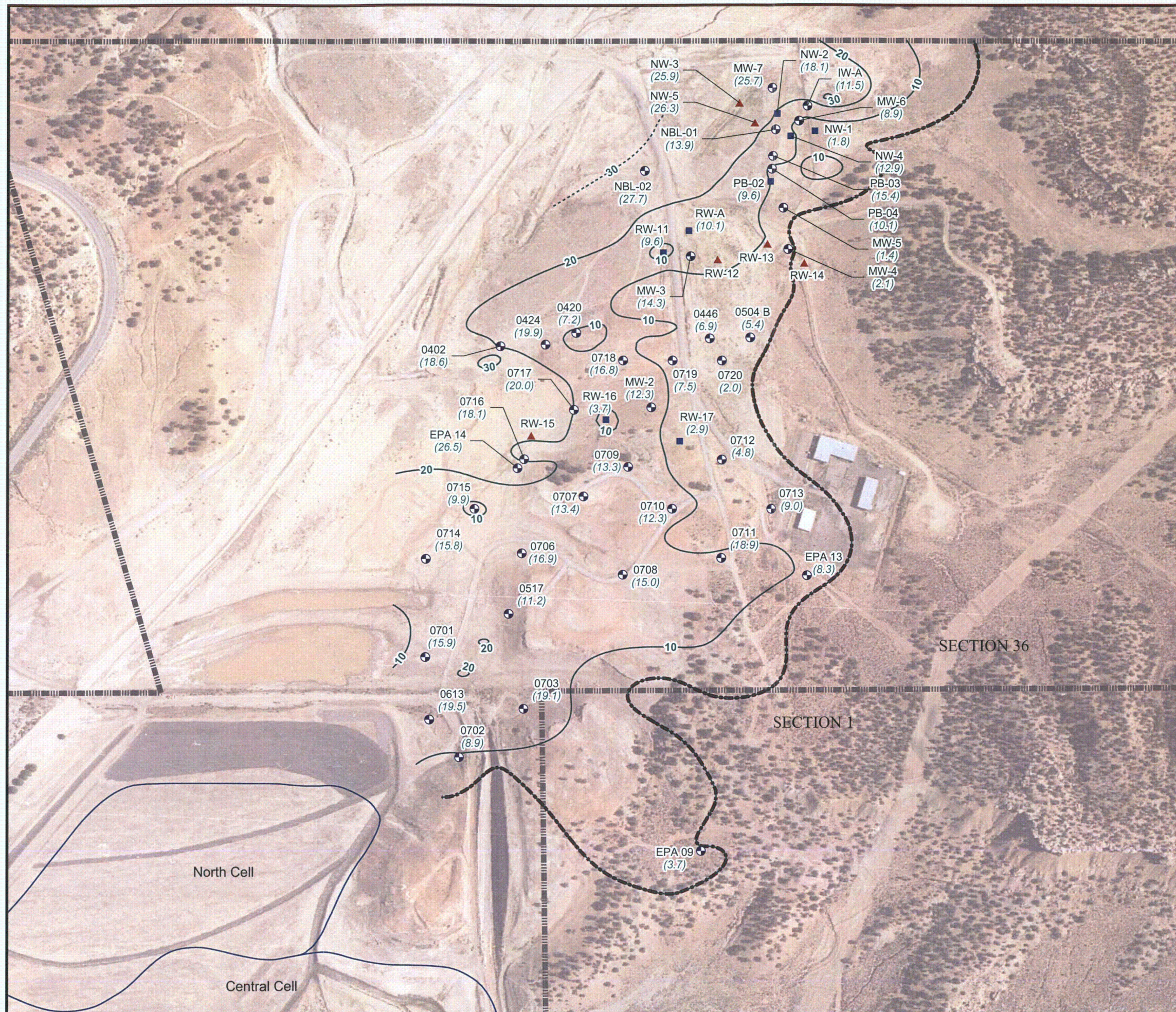
FIGURE 10

Zone 3 Approximate Extent of Seepage Impacts, October 2010

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico







Legend

- Monitoring Well
- ▲ Non-Pumping Well
- Pumping Well
- Saturated Thickness Contour
- - - - - Inferred Saturated Thickness Contour
- . - . - . Approximate Eastern Boundary of Zero Saturation
- Cell Boundary
- ||||| Property Boundary
- (3.6) Measured Saturated Thickness

Notes:

1. Saturated thickness values shown in feet.
2. Well names are displayed with black text.
3. Aerial photo taken on August 1, 1996.

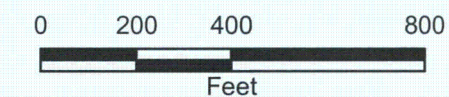


FIGURE 12

Zone 3 Saturated Thickness Map October 2010

United Nuclear Corporation Church Rock Site,
Church Rock, New Mexico

