

Figure Intro-1: Fort Cady Project Site Location

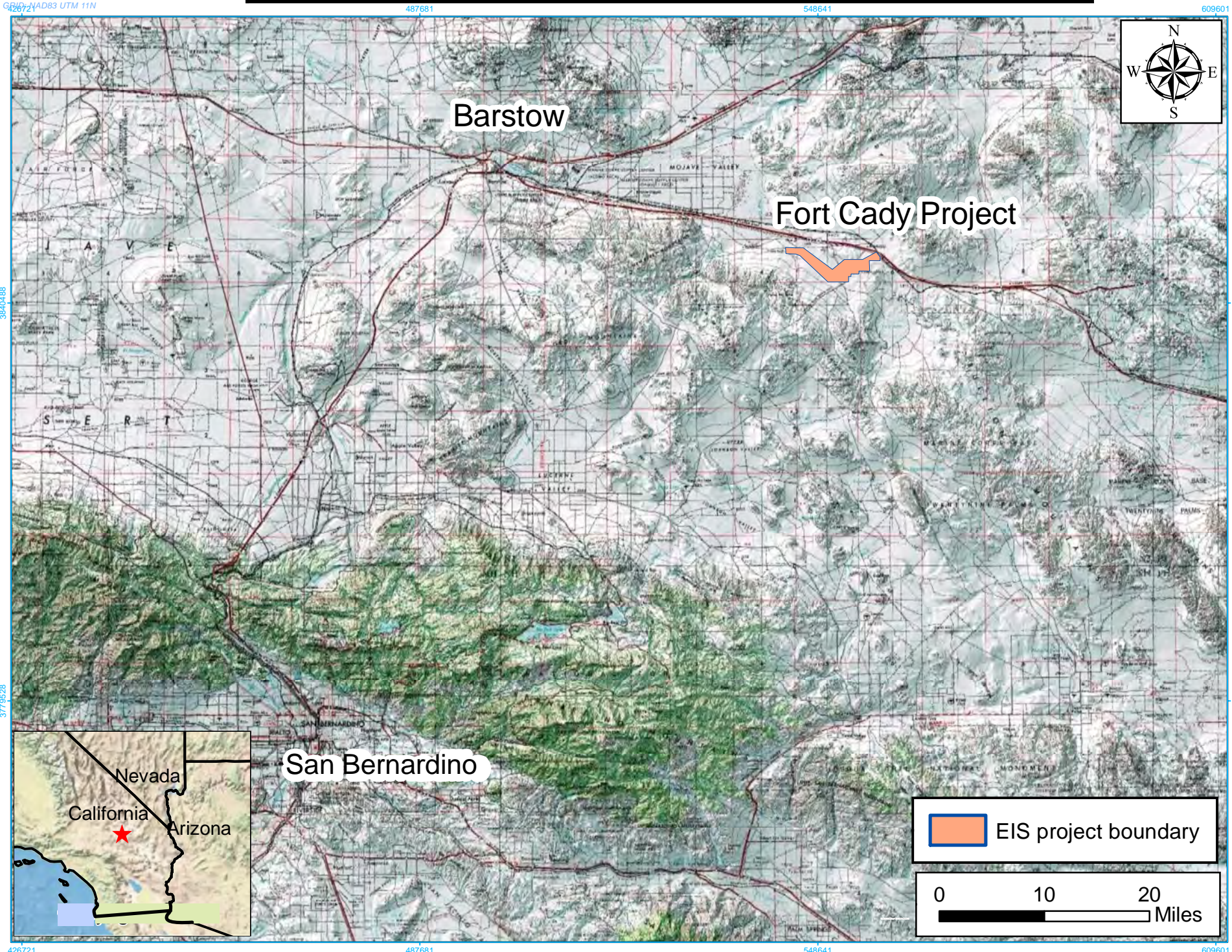
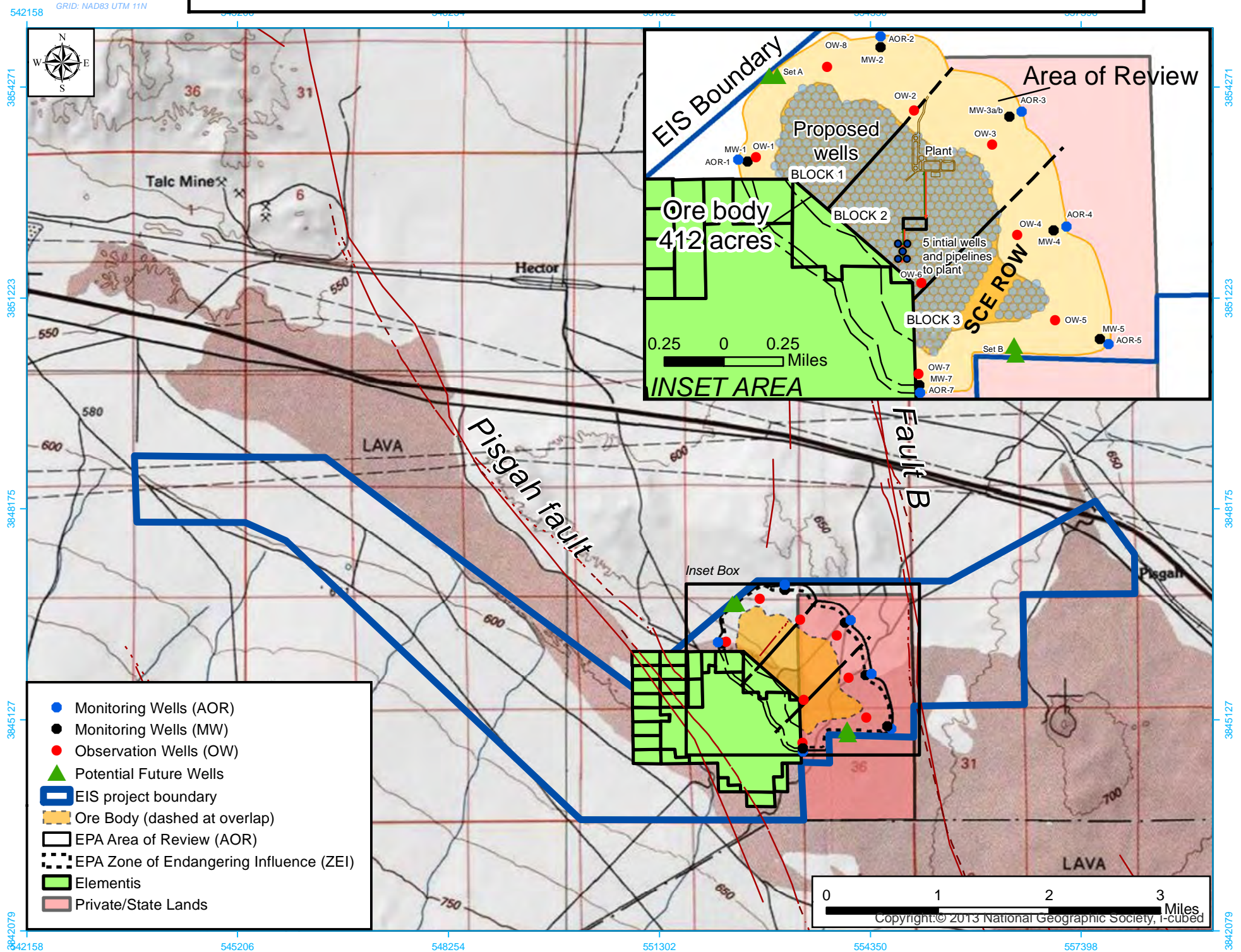


Figure A-1: Area of Review



- Monitoring Wells (AOR)
- Monitoring Wells (MW)
- Observation Wells (OW)
- ▲ Potential Future Wells
- ▭ EIS project boundary
- ▭ Ore Body (dashed at overlap)
- ▭ EPA Area of Review (AOR)
- ▭ EPA Zone of Endangering Influence (ZEI)
- ▭ Elementis
- ▭ Private/State Lands

0 1 2 3 Miles
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542158 3854271 3851223 3848175 3845127 3842079

54256 548254 551302 554350 557398

Figure A-2: Approximate Dimensions of the Ore Body and all Wells

551658 GRID: NAD83 UTM 11N

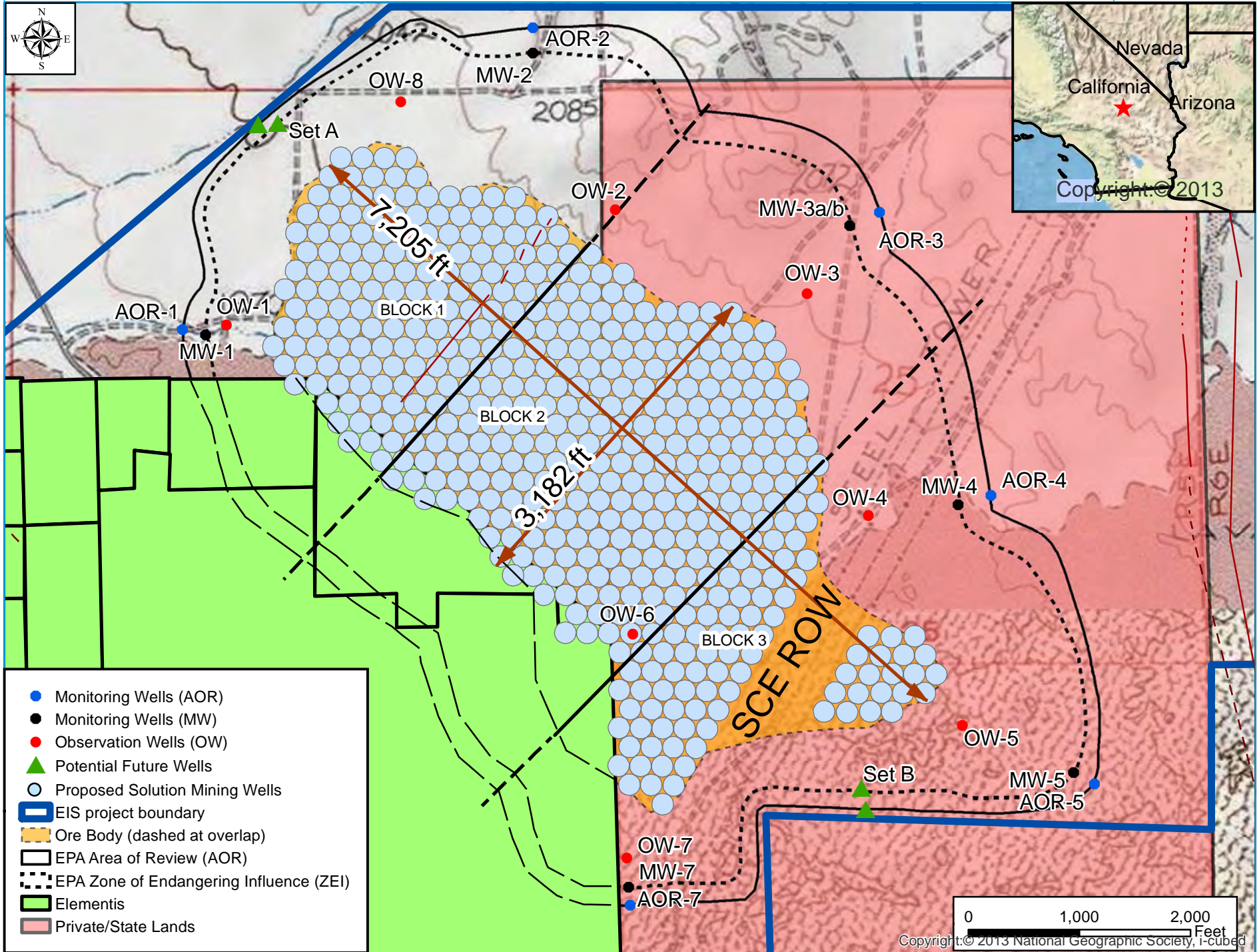
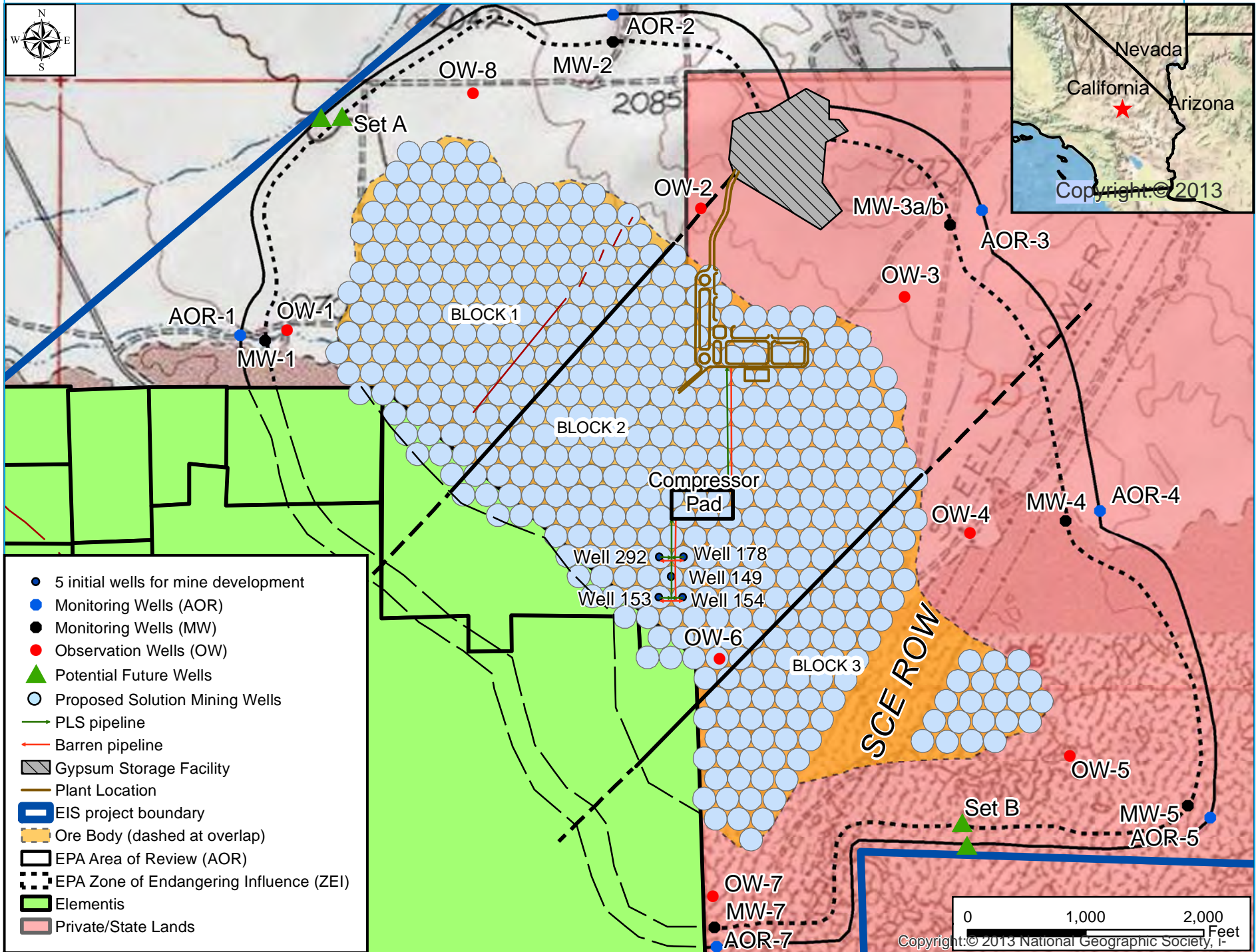


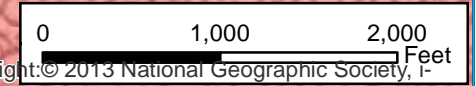
Figure A-3: Process Facilities and Initial Wells

551538 GRID: NAD83 UTM 11N

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- 5 initial wells for mine development
- Monitoring Wells (AOR)
- Monitoring Wells (MW)
- Observation Wells (OW)
- ▲ Potential Future Wells
- Proposed Solution Mining Wells
- PLS pipeline
- Barren pipeline
- ▨ Gypsum Storage Facility
- ▭ Plant Location
- ▭ EIS project boundary
- ▭ Ore Body (dashed at overlap)
- ▭ EPA Area of Review (AOR)
- ▭ EPA Zone of Endangering Influence (ZEI)
- ▭ Elementis
- ▭ Private/State Lands

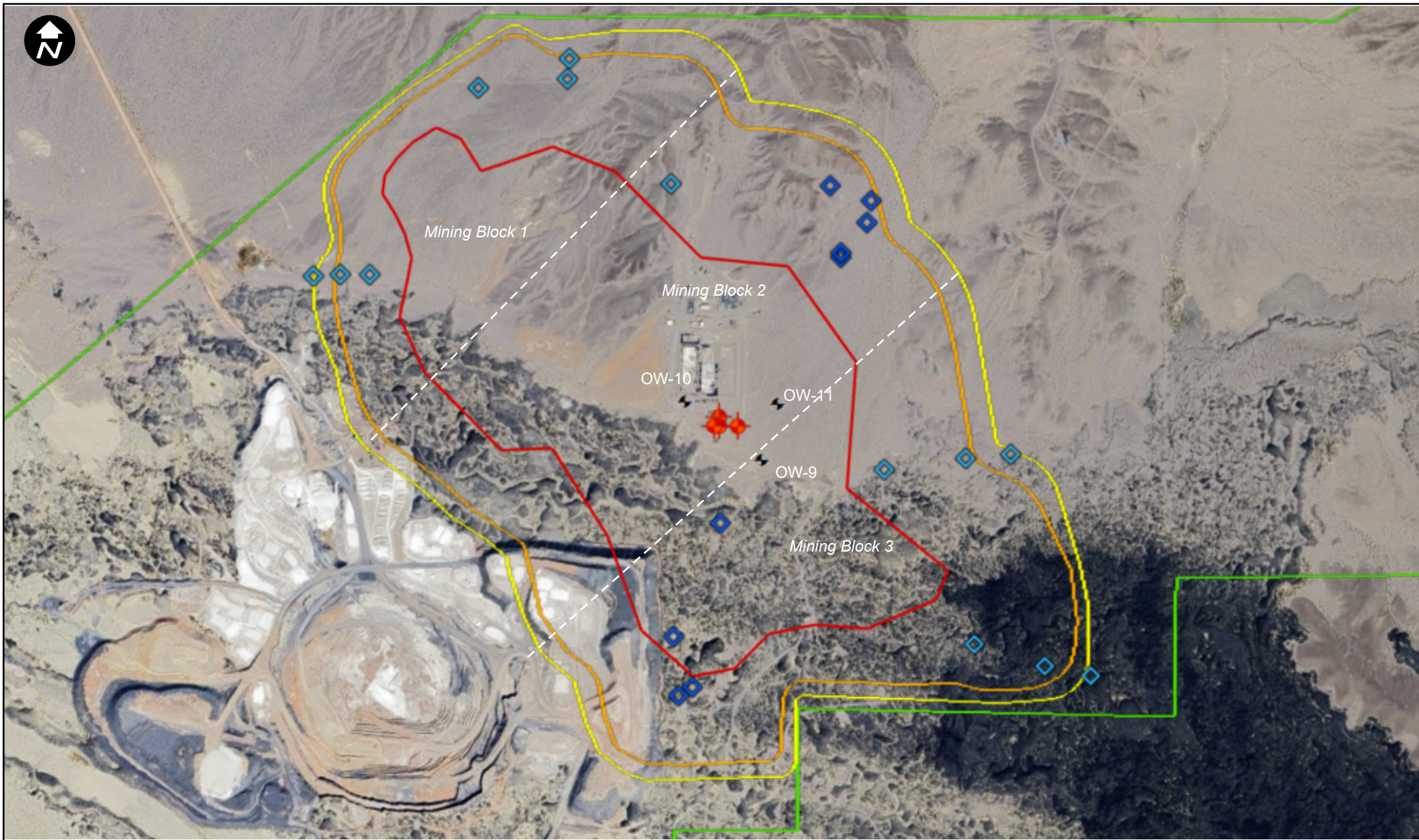


3844650
551538

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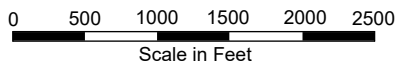
3844650

F:\002_AOR\000_CASBURN\000_FT_CADY\FT_CADY\FEB2020.mxd



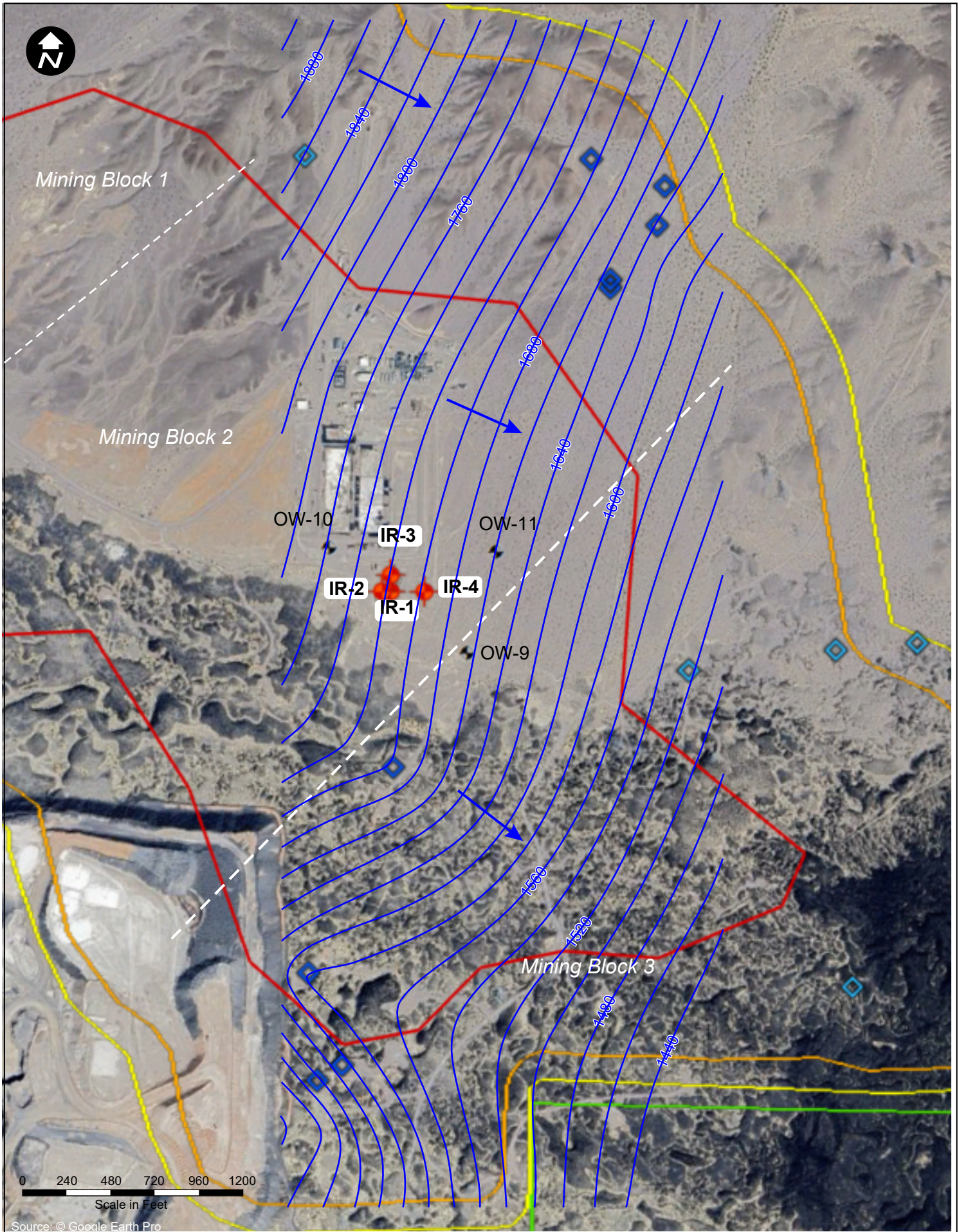
LEGEND:

- ◆ Existing OW/MW/AOR wells
- ◆ Injection-Recovery (IR) wells
- ◆ Planned OW/MW/AOR wells
- ◆ Proposed OW wells
- Mineable orebody
- EPA Zone of Endangering Influence
- EPA Area of Review
- EIS Project Boundary



Title: **Site Figure, Existing and Proposed Monitoring Well Locations**
 Location: **5E Boron Project, San Bernardino County, CA**

Client: 5E Boron Americas LLC.		Job No: 423002
PM: LM	Scale: As Shown	Figure A-4
Drawn: LB	Date: April 2024	



Source: © Google Earth Pro

LEGEND:

- ◆ Injection-Recovery (IR) wells
- ◆ Proposed OW wells
- Zone of endangering influence
- Orebody
- Inferred groundwater contour
- ➔ Inferred groundwater flow direction
- Area of Review (AOR)



EESI

ENVIRONMENTAL
EARTH
SCIENCES
INTERNATIONAL

Title: **Inferred Groundwater Contours**

Location: **5E Boron Project,
San Bernardino County, CA**

Client: **5E Boron Americas LLC.**

Job No: **423002**

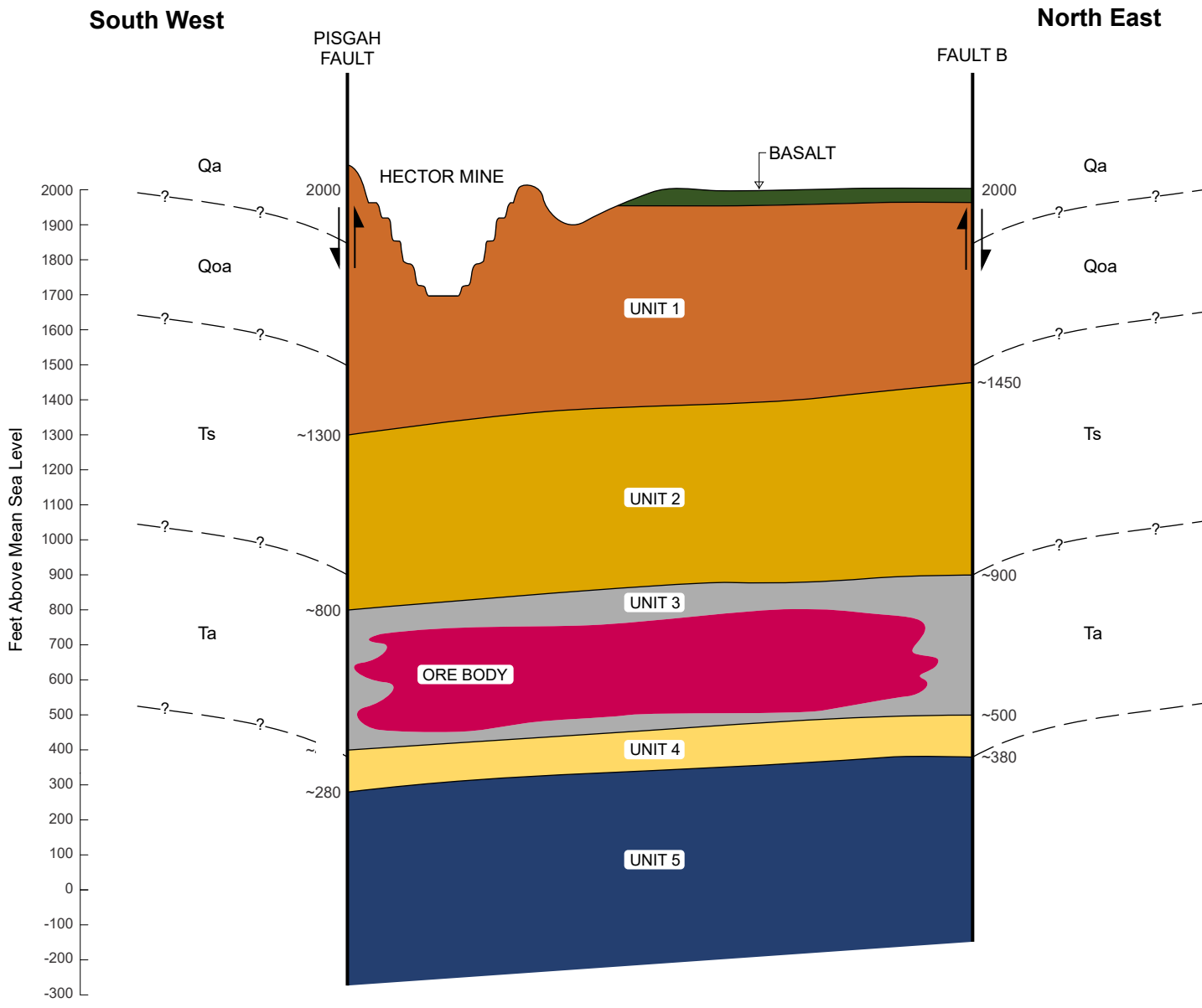
PM: **LM**








Scale: **As Shown**


Drawn: **LB**

Date: **April 2024**

Figure **A-5**



Geological Description	
	Basalt : (of the Bisgah lava flows): black, vesicular, hard, fresh micro-crystalline to vitreous basalt composed of calcic plagioclase and basaltic glass with small amounts of pyroxene, olivine, and magnetite. Common green olivine phenocrysts. Basalt flows total 3 to 30 feet thick on green olivine phenocrysts. Basalt flows total 30 to 3 feet thick.
	Unit 1 : 500 to 650 feet thick alluvial/playa deposits. Brown, red-brown, and tan bedded sequence of mudstone, with minor sandstone, zeolitized tuff, ash, limestone clasts and flanglomerate beds.
	Unit 2 : 300 - 500-ft thick Alluvial lake bed deposits comprised of olive gray to green gray laminated, bedded mudstone interbedded with minor blueish green to greenish gray volcanic zeolitic tuff, ash, and white-pale gray limestone, and occasional anhydrite.
	Unit 3 : 300 to 600 feet thick unit of sedimentary evaporite deposits comprising alternating laminated beds of pale gray to gray anhydrite and colemanite and dark greenish gray mudstone, with minor limestone, calcite, gypsum, volcanic tuff and ash.
	Ore Body : Borate-bearing colemanite within Unit 3. Opaque white to light gray, massive and observed in laminated wavy beds. 200 to 450 feet thick.
	Unit 4 : 80 to 150 feet thick alluvial deposits comprised of dusky yellow brown, tan and brown and grey-green bedded mudstone, sandstone, and siltstone with minor gray to greenish gray volcanic tuff and ash, and limestone. Locally abundant limestone and anhydrite clasts. Local basal conglomerate comprising of porphyritic volcanics andesitic fragments and sandstone overlying andesitic lava flows.
	Unit 5 : Andesite; Porphyritic, abundant hornblend, biotite, plagioclase phenocrysts.

 EESI ENVIRONMENTAL EARTH SCIENCES INTERNATIONAL	Title: Fault Block Cross-Section	
	Location: 5E Boron Project, San Bernardino County, CA	
Client: 5E Boron Americas LLC.	Job No: 423002	
PM: LM	Scale: As Shown	Figure A-6
Drawn: LB	Date: February 2024	