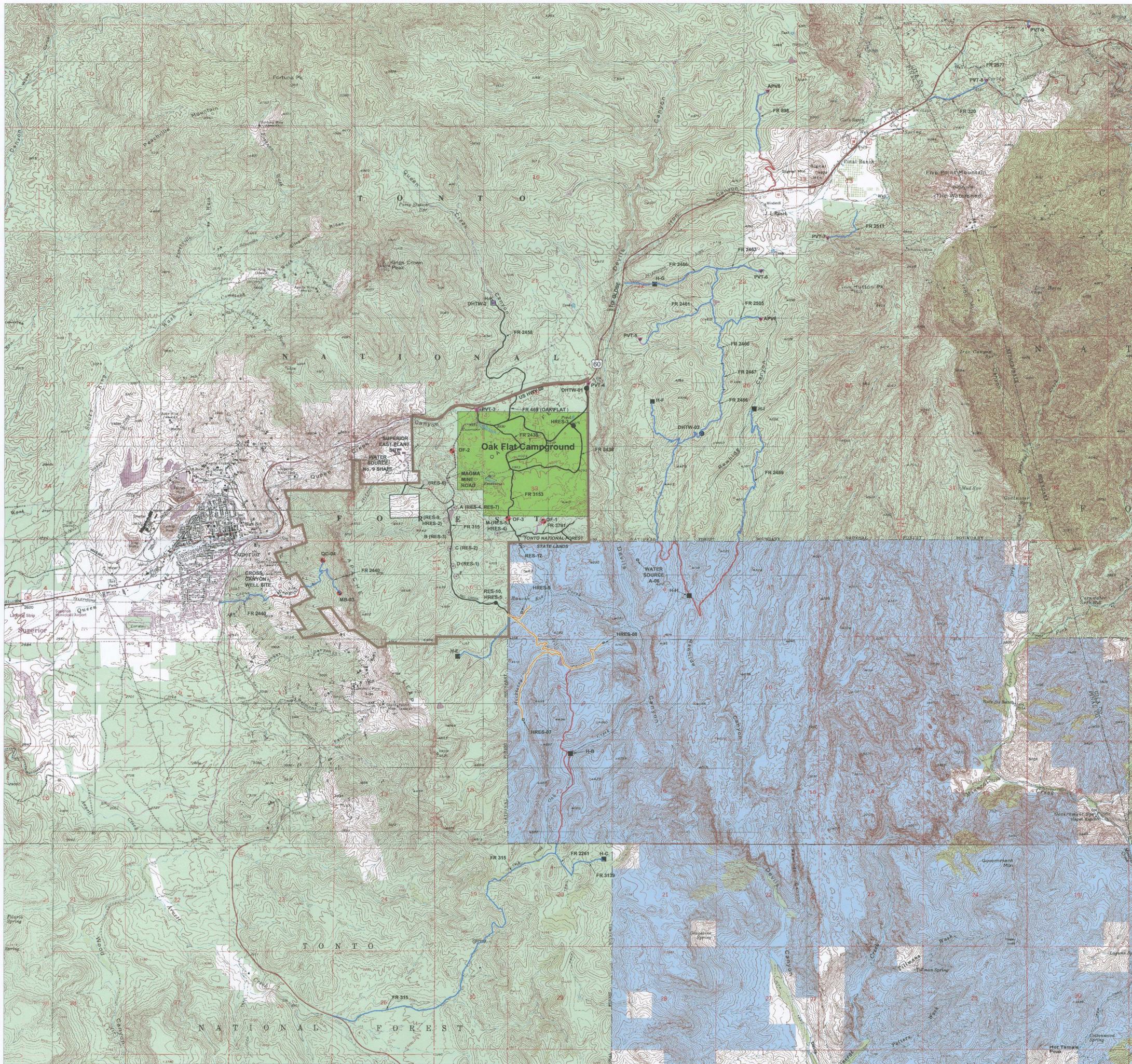


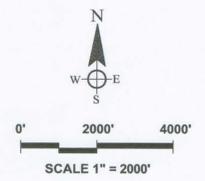
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**APPENDIX G**

**STATE AND  
PRIVATELY  
OWNED LAND  
ACTIVITIES  
LOCATION  
MAP AND  
DESCRIPTION OF  
ACTIVITIES**



- LEGEND**
- Resolution Parcel Boundary
  - Exploration Drill Site
  - Tunnel Characterization Bore Hole
  - Deep Hydrogeology Testing / Monitor Well
  - Shallow Hydrogeology Well Site
  - Drill Site (Approved Under November 2004 Modification)
  - Drill Site (Approved Under The Original February 2001 P.O.O.)
  - Existing Access Road (To Be Improved)
  - New Road
  - Other Roadway Improvements
  - Completed State Land Roadway Improvements
  - Existing Road (To Be Maintained)
  - Brushing/Clearing Along Roadway
  - Tonto National Forest
  - State Trust Lands



Pinal County, Arizona  
 Superior, Pinal Ranch &  
 Teapot Mountain 7.5'  
 USGS Maps



**RESOLUTION COPPER MINING  
 PLAN OF OPERATIONS**  
 STATE AND PRIVATELY OWNED  
 LAND ACTIVITIES LOCATION MAP  
 Appendix C

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**Description of Activities on State and Privately Owned Lands - Resolution Copper Mining, LLC**

Activity Name	Purpose and Uses	Location	Land Ownership	Disturbance		Facility Description	Equipment Used	Phasing/Abandonment
				Within Existing Disturbance?	Estimated Disturbance Area			
<b>HRES-07 (State Well Site A)</b>	Geologic and Hydrologic data collection	T2S, R13E, NE 1/4 NE 1/4 Sec 8	State Land Dept	No	0.18 ac	<ul style="list-style-type: none"> <li>• maximum disturbance area 80ft X 100ft</li> <li>• depth is 800 to 1,500 ft using rotary or percussion methods with maximum 12-inch diameter bit</li> <li>• 3ft X 3ft concrete pad placed around well surface casing</li> </ul>	1 Lang LM-140 series tophead rotary drill rig 1 Pipe truck 1 D-9 Cat Bulldozer 1 track hoe 1 mud tank 1 water truck 1 water storage tank 1 generator for drill rig	<b>Completed</b>
<b>HRES-08 (State Well Site D)</b>	Geologic and Hydrologic data collection	T2S, R13E, SE 1/4 NW 1/4 Sec 8	State Land Dept	No	0.18 ac	<ul style="list-style-type: none"> <li>• maximum disturbance area 80ft X 100ft</li> <li>• depth is 800 to 1,500 ft using rotary or percussion methods with maximum 12-inch diameter bit</li> <li>• 3ft X 3ft concrete pad placed around well surface casing</li> </ul>	1 Lang LM-140 series tophead rotary drill rig 1 Pipe truck 1 D-9 Cat Bulldozer 1 track hoe 1 mud tank 1 water truck 1 water storage tank 1 generator for drill rig	<b>Completed</b>
<b>HRES-07 Access Road</b>	Roadway improvement and grading and clearing for new access to Well Site A	T2S, R13E, Sec 5 and 8	State Land Dept	Yes	0.90 ac	<ul style="list-style-type: none"> <li>• 12ft X 3,272ft disturbance area assumed</li> </ul>	bulldozer, hammer-hoes	<b>Completed</b> – on periodic maintenance through life of mine
<b>HRES-08 Access Road</b>	Roadway improvement and grading and clearing for new access to Well Site D	T2S, R13E, Sec 5 and 8	State Land Dept	Yes	0.79 ac	<ul style="list-style-type: none"> <li>• 12ft X 2,880ft disturbance area assumed</li> </ul>	bulldozer, hammer-hoes	<b>Completed</b> – on periodic maintenance through life of mine
<b>HRES-05 (State Hydrologic Monitoring Well)</b>	Groundwater monitoring	T2S, R13E, SW 1/4 SW 1/4 Sec 5	State Land Dept	Yes	--	<ul style="list-style-type: none"> <li>• drilled with 16-inch drill bit to 20ft and 9-inch drill bit as deep as 500 m using reverse circulation air rotary method</li> <li>• 5ft X 5ft concrete pad installed at wellhead</li> </ul>	1 Lang LM-140 series tophead rotary drill rig 1 crane-equipped flat-bed truck 1 8,000 gallon drill fluid containment system 1 winch truck 1 truck-mounted equipment storage container 1 auxiliary air compressor support vehicles	<b>Completed</b>
<b>HRES-05 Access Road</b>	Roadway improvement and widening for access to well site within State Lands	T2S, R13E, SW 1/4 SW 1/4 Sec 5	State Land Dept	Yes	--	--	--	<b>Completed</b> – on periodic maintenance through life of mine
<b>RES-12 (State Drill Pad #2)</b>	Exploration	T2S, R13E, Nw1/4 NW 1/4 Sec 5	State Land Dept	Yes	0.7 ac	<ul style="list-style-type: none"> <li>• 50ft X 100ft drill pad</li> <li>• drilled by open hole technique for 3,000ft then deepened to 7,500ft by diamond drilling</li> <li>• up to 10 deflections from trunk hole by diamond drilling</li> </ul>	1 Schram 685 Rotary Drill Rig 1 Pipe truck 1 UDR-5000 Core Drill Rig 1 UDR-1500 Core Drill Rig 1 hoe ram 1 water truck Rollers 1 track-mounted back hoe	<b>Initiation</b> – Currently in use and authorized through December 2008 <b>Length of Occupancy</b> Throughout mine planning stage <b>Concurrent reclamation</b> – After completion of drilling and testing activities the pad will be

**Description of Activities on State and Privately Owned Lands - Resolution Copper Mining, LLC**

Activity Name	Purpose and Uses	Location	Land Ownership	Disturbance		Facility Description	Equipment Used	Phasing/Abandonment
				Within Existing Disturbance?	Estimated Disturbance Area			
								graded and reclaimed. <b>Closure</b> Hydro well monitoring will continue throughout life of mine – Pad will be graded and road maintained to allow support vehicles and pump rigs to access well.
<b>Shallow Well Site H-B</b>	Explore groundwater in Whitetail Conglomerate of underlying units where Apache Leap Tuff is absent; provide additional control for direction and magnitude of water level gradients south of the Resolution Parcel; provide aquifer parameters for Whitetail of underlying units	T2S, R13E, NW ¼ NE ¼ Section 17	State Land Dept	Yes	0.18	<ul style="list-style-type: none"> <li>80ft X 100ft maximum drill pad size</li> <li>Approximately 1500 ft hole (12” diameter to start reduced to 9” then 6” depending on depth.</li> <li>Well completion with steel casing, pump and or transducers, gravel pack, sounder access and inflatable packers designed for continual monitoring</li> </ul>	1 Lang LM-140 series tophead rotary drill rig or equivalent 1 mud tank 1 heavy duty air compressor 2 pipe trucks 1 water storage tank 2 generators for drill rigs 1 front end loader 1 backhoe 1 tracked jaw crusher	<b>Initiation</b> – May 2009 <b>Length of Occupancy</b> – Three to four weeks for drilling and well set-up and construction - periodic visits with pump rig to reconfigure packers and transducers during mine planning period <b>Concurrent reclamation</b> – Sites will be reclaimed but left accessible for long term monitoring of the Apache Leap Aquifer. <b>Closure</b> - Long term monitor well through life of mine
<b>Shallow Well Site H-H</b>	Provide additional control in Apache Leap Tuff aquifer for direction and magnitude of water level gradients in east part of Devils Canyon drainage basin; provide additional aquifer parameters for tuff	T2S, R13E, SW ¼ Section 4	State Land Dept	No	0.18	<ul style="list-style-type: none"> <li>80ft X 100ft maximum drill pad size</li> <li>Approximately 1500 ft hole (12” diameter to start reduced to 9” then 6” depending on depth.</li> <li>Well completion with steel casing, pump and or transducers, gravel pack, sounder access and inflatable packers designed for continual monitoring</li> </ul>	1 Lang LM-140 series tophead rotary drill rig or equivalent 1 mud tank 1 heavy duty air compressor 2 pipe trucks 1 water storage tank 2 generators for drill rigs 1 front end loader 1 backhoe 1 tracked jaw crusher	<b>Initiation</b> – October 2009 <b>Length of Occupancy</b> – Three to four weeks for drilling and well set-up and construction - periodic visits with pump rig to reconfigure packers and transducers during mine planning period <b>Concurrent reclamation</b> – Sites will be reclaimed but left accessible for long term monitoring of the Apache Leap Aquifer. <b>Closure</b> - Long term monitor well through life of mine
<b>Cross Canyon Well</b>	Hydrologic Monitoring	T2S, R12E, NW ¼ SW ¼ Sec 2	Private	Yes	0.18	<ul style="list-style-type: none"> <li>80ft X 100ft maximum drill pad size</li> <li>2,000-meter core drill hole completed with 4-inch steel casing</li> <li>1m X 1m concrete pad be installed at wellhead</li> </ul>	1 Lang LM-200 series tophead rotary drill rig 1 Pipe truck 1 UDR-5000 Core Drill Rig 1 UDR-1500 Core Drill Rig 1 hoe ram 1 water truck Rollers 1 track-mounted back hoe	<b>Initiation</b> – January 2009 <b>Length of Occupancy</b> – throughout project life and reclaimed when monitoring is no longer required for PFS or EIS process <b>Concurrent reclamation</b> – Sites will be reclaimed but left accessible for long term monitoring of the Apache Leap Aquifer.

Description of Activities on State and Privately Owned Lands - Resolution Copper Mining, LLC								
Activity Name	Purpose and Uses	Location	Land Ownership	Disturbance		Facility Description	Equipment Used	Phasing/Abandonment
				Within Existing Disturbance?	Estimated Disturbance Area			
								<b>Closure</b> - On periodic maintenance throughout life of mine
<b>FR-315</b>	Roadway improvements for access through state land to shallow hydrologic well site H-B (located on state land)	T2S, R13E, portions of E ½ Section 8 and 17	State Land Dept	Yes	[Note]	Improve approximately 2.2 miles of existing road	1 track hoe 1 hammer hoe 1 front end loader 1 water truck 1 tracked jaw crusher	<b>Initiation</b> – January 2009 <b>Length of Occupancy</b> – Roads to instrumented hydro wells will be used throughout life of mine and reclaimed when monitoring is no longer required. <b>Concurrent reclamation</b> – Bypassed sections of road at hairpins will be ripped and seeded with a Forest Service-approved mix <b>Closure</b> On periodic maintenance throughout life of mine
<b>Extension of FR 898</b>	Roadway improvements for access through privately owned land to tunnel characterization borehole APV-8 (located on Tonto National Forest)	T1S, R13E, portion of E ½ Section 14	Private	Yes	[Note]	Improve approximately 0.7 mile of existing road	1 track hoe 1 hammer hoe 1 front end loader 1 water truck 1 tracked jaw crusher	<b>Initiation</b> – November 2009 <b>Length of Occupancy</b> – Roads to instrumented hydro wells will be used throughout life of mine and reclaimed when monitoring is no longer required. <b>Concurrent reclamation</b> – Bypassed sections of road at hairpins will be ripped and seeded with a Forest Service-approved mix <b>Closure</b> - On periodic maintenance until well is not needed. Areas will be reclaimed (ripped and seeded with a Forest Service-approved mix).
<b>Extension of FR 2440</b>	Roadway improvements for access through privately owned land to exploration sites QC-04 and MB-03 on Forest Lands	T2S, R12E, portion of S ½ Section 2	Private	Yes	[Note]	Improve existing road	1 track hoe 1 hammer hoe 1 front end loader 1 water truck 1 tracked jaw crusher	<b>Initiation</b> – January 2009 <b>Length of Occupancy</b> – Three to four weeks <b>Concurrent reclamation</b> – Road will be maintained through out life of mine for long term monitoring well on Resolution fee land <b>Closure</b> - Remain on maintenance for life of mine

**Resolution Copper Mining, LLC - Description of Activities on State and Privately Owned Lands**

Activity Name	Purpose and Uses	Location	Land Ownership	Disturbance		Facility Description	Equipment Used	Phasing/Abandonment
				Within Existing Disturbance?	Estimated Disturbance Area			
<b>Extension of FR 2466 and FR 2469</b>	Roadway improvements for access through state land to shallow hydrologic well site H-I (located on Tonto National Forest)	T2S, R13E, portions of Section 3 and 4	State Land Dept	Yes	[Note]	Improve existing road	1 track hoe 1 hammer hoe 1 front end loader 1 water truck 1 tracked jaw crusher	<p><b>Initiation</b> – January 2009</p> <p><b>Length of Occupancy</b> – Roads to instrumented hydro wells will be used throughout life of mine and reclaimed when monitoring is no longer required.</p> <p><b>Concurrent reclamation</b> – Bypassed sections of road at hairpins will be ripped and seeded with a Forest Service-approved mix</p> <p><b>Closure</b> On periodic maintenance throughout life of mine</p>

Note: Access road improvements are planned along portions of approximately 5.3 miles of existing access road on state and privately owned lands. Approximately 3.2 miles of existing road would be improved for gaining access to activities on Tonto National Forest.