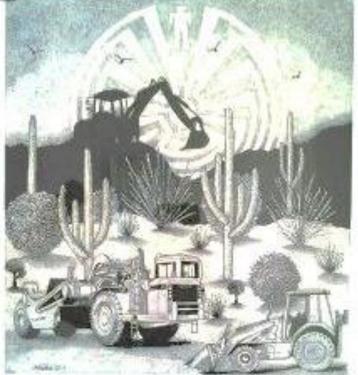
# Mining on Tribal Lands



Tribal Lands Environmental Forum August 2016

Laurie Suter, Mineral Resources Administrator Tohono O'odham Nation Department of Natural Resources

# **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion

# Great Spirit, let every rock be my teacher

"All the stones that are around here, each one has a language of its own. Even the earth has a song."-- Wallace Black Elk, LAKOTA

#### **Elder's Meditation**

To believe that every tree, plant, and insect can talk takes an open mind. Go pick up a rock and listen to your thoughts. After a while, put that rock down and pick up another rock. Your thoughts will change. These are the voices and wisdom of the Stone People. Each one has different wisdom and they are willing to share their wisdom with you. Many of the Stone People are very old and very wise.

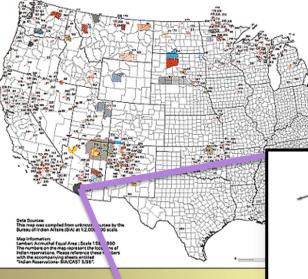
# **ACTIVITY!**



# **Class Outline:**

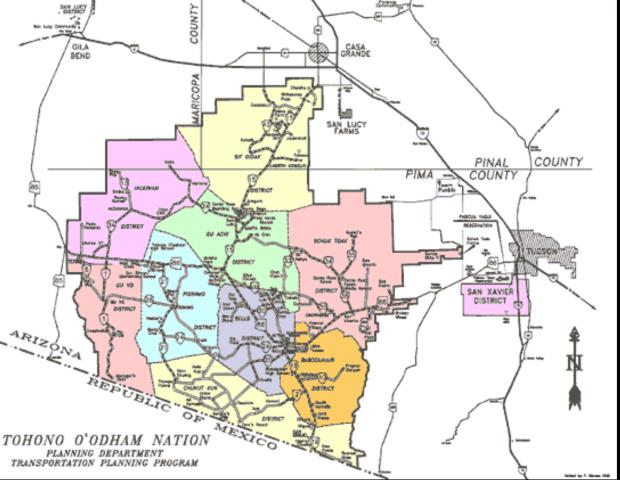
# Mining on Tohono O'odham Nation Tribal Lands

- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion



- Federally recognized sovereign Nation
- 11 districts
- > 30,000 members
- 2.8 million acres
- Southern Arizona
- ~75 miles on border

## Tohono O'odham Nation





We are the Border, We are Beautiful

## **Mission Statement**

The mission of the Mineral Resources Program is to protect and develop the mineral resources of the Tohono O'odham Nation as directed by the Nation's leadership.

## Mining near & on Tohono O'odham



- Copper mines
  - Cyprus Tohono
     Mine
  - ASARCO Mission
     Mine
  - Planned: Rosemont
  - Silverbell & Sierrita
  - ~100 patented
  - ~10 unpatented
- >500 legacy mines

## TASK #1: CYPRUS TOHONO CORPORATION (CTC) FREEPORT-MCMORAN INC (FCX) MINE OVERSIGHT

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
CTC- Continue attending meetings and monitoring events such as bat counts, water sampling, post- removal cover inspections, historical site visits, etc.	Manage Mineral Resources.	Continue to attend meetings; Read and analyze information and provide updates to tribal entities. Develop excellent working relationship with mining company.
CTC - Continue involvement with Remedial Investigation/Feasibility Study (RI/FS)for ground water contamination; evaluate mitigation options, and provide for corrective action implementation.	Manage Mineral Resources. Protect Groundwater.	Coordinate and facilitate meetings with Cyprus Tohono, Sif Oidak District, the Nation's Executive and Legislative Branches, Water Resources Department, AG office, USEPA, BLM, and implement mitigation.
CTC - Coordinate with all Tribal and government entities on re-start of mining operations if mining is to resume. Negotiate new terms for the renewed mining lease.	Economic Development. Jobs for Youth and Adults.	Obtain appraisals and coordinate with Realty, AG, WRD, DNR, Sif Oidak District, North Komelik, Nation's Executive and Legislative Branches, USEPA, BLM, BIA, etc. to reach agreement on new terms.

# **Cyprus Tohono Mine**



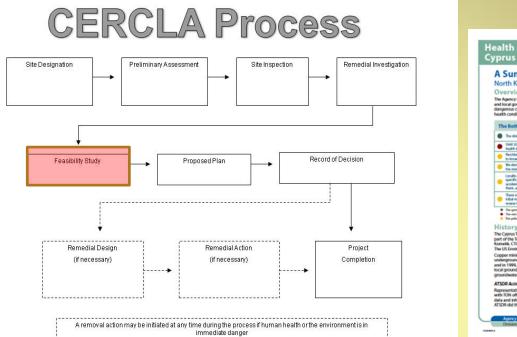
✓ Alternative Superfund Copper Mine Site
 ✓ Impacted land and groundwater





## **Cyprus Tohono Corporation Mine**

2010 2015



prus Tohon		January 2016
A Summary of		
lorth Komelik, To	hono O'odham Nation	
verview		
d local governments to ass ngerous chemicals. This fai	nces and Disease Registry (ATSDR) work sess health risks in communities where ct sheet summarizes findings from ATSI ornolik, near the Cyprus Tohono Mine Si	people may come in contact with DRS investigation of environmental
The Bottom Line		
The chinking water Tohono (	Oradham Utility Authority currently provides to I	North Komelik is sale.
Until 2013, North Kornellik de health if they drank it for 1 a	trinking water contained assenic and fluoride at I mar or more.	evels that could have harmed people's
	present in North Konsellk drinking water before levels that could have harmed people's health.	2003; however, there is not enough data
We don't have enough data the mine owner, federal age	to judge the quality of the air for people living n recies, and the Tohono Olotham Nation conduct	ear the site, so ATSOR recommends that more testing.
specific data. Local solit are l	d plants are most likely sale to eat, but to be san likely sale, however, it is good for your health to hat everyone wear gloves while gardening or ha -gardening or harvesting.	limit the amount of soil you eat by
tribul members in the future	ation to know whether a restart of copper minin a ATSOR recommends the mine owner, federal a g plan to forecast the health and environmental	pencies, and the Tohono O'odham Nation
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t of the Tohono O'odham	ion (CTC) mine site is located 32 miles s Nation (TON). The site boundary is 1 mi	le east of the village of North
	e mining lease with the Duneau of India tion Agency (EFR) is investigating grou	
lerground mining and pro I in 1999, the mine transiti al groundwater with urani	site in the 1880's. Open pit mining beg cessing of code and suffice ones bega ioned to care and maintenance mode. I sur, suffate, and perchiorate. EPA is inv . CTC is considering whether to resume	<ol> <li>Open pit mining ended in 1997, Past mining activities contaminated ostigating options for cleaning up</li> </ol>
SDR Activities at the Cyp		
h TON officials and comma a and information about h	ited the Nation with EPA in September unity members of North Komelik. Since human contact with chemicals, and por quest of the EPA and the TON.	then, ATSOR has been reviewing
Agency for Toxic Substance	an and Parson Basister	( AL AL



### Community Involvement at Cyprus Tohono Mine

Sarah Cafasso US EPA Community Involvement Coordinator



### **TASK #2: ASARCO MISSION MINE OVERSIGHT**

lease, Mine Plan of Operations, and Reclamation Plan for the Northward Pushback and	Economic Development and Jobs for Youth and Adults. Manage Natural Resources.	Coordinate with San Xavier District, Allottees, NRC, ASARCO, BLM, BIA, USEPA, etc., to agree on terms of potential mining. Attend ASARCO Working Group meetings. Insure necessary approvals are obtained.
parties concerning mining proposals ASARCO - Complete reclamation of North San Xavier mine dumps if parties choose	Educate decision makers. Manage Natural Resources. Reclamation of Mine lands.	Read and analyze information and provide updates; Work with ASARCO Working Group, ASARCO, AG, & DNR Director Help implement reclamation requirements in the Mining and Reclamation Plan (MARP) of the Settlement Agreement.

# **ASARCO Mission Complex**

- ✓ ASARCO Mission Mine Complex: situated on 20,000 acres.
- Current pit: 2.5 miles
   long, 1.5 mile wide,
   1,200 feet deep
- Located on tribal land on the south end of San Xavier District (everything above red line)







# **ASARCO** Mission mine

Before reclamation: 2009



#### After reclamation: 2015

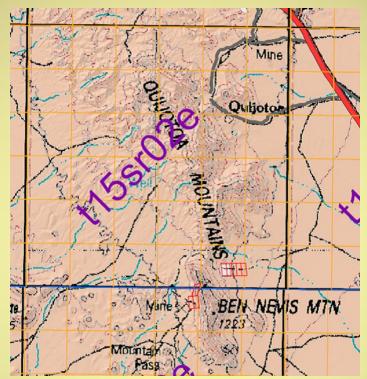
### TASK #3: MINE SITE INVENTORY (LEGACY, PATENTED AND UNPATENTED)

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Create & update mining sites	Manage Natural	Continue adding sites and
database	Resources.	information to BIT Access database.
		Visit sites.
Investigate potential purchase of	Assist in acquiring	Set up site visits and work with
Patented Legacy mining Sites;	properties.	Nation's Executive and Legislative
Investigate Legacy sites especially		Branches, AG Office, Realty, USEPA,
those not in BIA Trust Status.		BLM, and BIA; and the affected
		Districts. Visit BLM/AZ State offices.
Work with departments and federal	Economic Development.	Support Development Department
agencies to get site surveys and	Jobs for Youth and	Industrial (aggregate, sand and gravel)
assessments completed	Adults.	Minerals Site Survey; Work with
		Nation's EPO Brownfields program to
		assess sites
Initiate parameters aimed at	Promote health and	Inventory, investigate, and seek
eradicating unsafe abandoned mine	safety both on and off	funding for safely securing mine sites
land (AML) features, especially	mine sites.	such as posting warning signs,
open mine shafts.		fencing or bat grates/cupolas; Locate
		using GIS; need community input.

# **Mine Site Inventory**

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10030         Summit         First         MODE         Strukt Task / A sone           NOLL         Recentation         Purchased by TON 15-12-200         Sec 1         T165         NOSE         Strukt Task / A sone           NOLL         Recentation         Purchased by TON 15-12-200         Sec 1         T165         NOSE         Strukt Task / A sone           NOLL         Recentation         Sec 1         T165         NOSE         Strukt Task / A sone           NOLL         Sec 1         T165         NOSE         Strukt Task / A sone           NOLL         Sec 1         T165         NOSE         Strukt Task / A sone           NOLL         Sec 1         T165         NOSE         Strukt Task / A sone           NOLL         Sec 1         T125         NOSE         Strukt Task / A sone           NOSE         Sec 2         T125         NOSE         Strukt Task / A sone           NOSE         Sec 3         T125         NOSE         Strukt Task / A sone           NOSE         Sec 3         T125         NOSE         Sec 4         A sone           NOSE         Sec 3         T125         NOSE         Sec 4         A sone           NOSE         Sec 1         Sec 3         T165 <td>UCX20         Summit         Sec.         T125         M035         Set.         Set.</td> <td></td> <td>Schuk Toek</td> <td></td> <td></td>	UCX20         Summit         Sec.         T125         M035         Set.													Schuk Toek		
NO.41         Packhontas         Punchased by TON 13-02.202         Sec 11         T165         MOSE         Sauk Task         Attende           10012         Financis:         Millians         Sec 13         T165         MOSE         Sauk Task         Attende           10012         Financis:         Millians         Sec 13         T165         MOSE         Sauk Task         Attende           10013         Site Thill view         Sec 13         T165         MOSE         Sauk Task         Attende           10013         Site Thill view         Sec 13         T165         Muse         Sauk Task         Attende           10014         Site Thill         Sec 13         T165         Muse         Sauk Task         Attende           10014         Site Thill         Sec 23         T155         MOSE         Sauk Task         Attende           20014         Site Task         Muse 200         Sec 23         T155         MOSE         Sauk Task         Attende           20015         Site Task         Muse 200         Sec 23         T155         MOSE         Sauk Task         Attende           20015         Site Task         Sec 23         T165         MOSE         Sauk Task         Attende	NOME         Decemporta         Purchased by TON 12-12-202         Sec 11         T165         M032         Softwit Tesk         Atsone           ICOLD         Fernands         Sec 12         T165         M032         Softwit Tesk         Atsone           ICOLD         Fernands         Softwit Tesk         Sec 12         T165         M032         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Softwit Tesk         Atsone         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Softwit Tesk         Atsone         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Atsone         Softwit Tesk         Atsone         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Atsone         Softwit Tesk         Atsone         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Atsone         Softwit Tesk         Atsone         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Atsone         Softwit Tesk         Atsone         Softwit Tesk         Atsone           ICOLD         Softwit Tesk         Atsone         Softwit Tesk         Atsone         Softwit Tesk         Atsone <t< td=""><td>M 0039</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	M 0039														
10023     Fundacies     Sec 13     T165     MC55     Stuk Tak Arbon       10020     Sec 13     T165     MC55     Stuk Tak Arbon       10021     Sec 13     T165     MC55     Stuk Tak Arbon       10025     Sec 13     T165     MC55     Stuk Tak Arbon       10026     Sec 13     T165     MC55     Stuk Tak Arbon       10027     Sec 13     T165     MC55     Stuk Tak Arbon       10028     Sec 13     T165     MC55     Stuk Tak Arbon       10029     Sec 13     T165     MC55     Stuk Tak Arbon       10029     Sec 13     T165     MC55     Stuk Tak Arbon       10020     Sec 13     T155     MC55     Stuk Tak Arbon       10020     Sec 23     T155     MC55     Stuk Arbon       10020     Sec 23     T155     MC55     Stuk Arbon       10020     Sec 23     T155     MC55     Stuk Arbon       10020     Sec 23     T165     MC55     Stuk Arbon       10021     Sec 14     Sec 26     T165     MC55     Stuk Arbon       10023     Sec 10     T165     MC55     MC55     Stuk Arbon       10023     Sec 10     T165     MC55     MC55     Stuk Arbon<	CCCC     Fernande:     Set 03     T165     M685     Set 11 T165     M685       Delay Fride     Set 03     T165     M685     Set 11 T165     M685       Delay Fride     Set 03     T165     M685     Set 11 T165     M685       Delay Fride     Set 03     T165     M685     Set 11 T165     M685       Delay Fride     Set 03     T125     M685     Set 11 T165     M685       Delay Fride     Set 03     T125     M685     Set 11 T165     M685       DA100     Delay Fride     Set 03     T125     M685     Set 11 T165       N026     Delay Fride     Set 03     T125     M625     Set 04       N026     Delay Fride     Set 03     T125     M625     Set 04       N026     No 2 Ugan     Purchased by TON May 2009     Set 03     T165     M625     Set 04       N026     Delay Fride     Delay Fride     Set 04     T165     M625     Set 04       DS50     College Fride     Delay Fride     Set 04     T165     M625     Set 04       DS50     Delay Fride     Set 04     T165     M625     Set 04     Abone       DS50     Delay Fride     Set 06     T165     M625     Set 04	MOOR														
10013     Pernander: Millatie     Sec.12     T105     M055     Spuk Task Arbon       10013     Set.12     Sec.23     1143     Mu55     Spuk Task Arbon       10014     Set.12     Sec.23     1143     Mu55     Spuk Task Arbon       10015     Set.12     Sec.23     1143     Mu55     Spuk Task Arbon       10016     Mastel Caster     Sec.23     1143     Mu55     Spuk Task Arbon       10017     Mastel Caster     Sec.23     1143     Mu55     Spuk Task Arbon       10017     Mastel Caster     Sec.23     1143     Mu55     Spuk Task Arbon       10017     Mastel Caster     Sec.23     1143     Mu55     Spuk Task Arbon       10017     Mastel Caster     Sec.23     1143     Mu55     Spuk Task Arbon       0018     Mastel Caster     Sec.23     1143     Mu55     Spuk Task Arbon       0019     Mastel Caster     Sec.23     1145     M055     Spuk Task Arbon       0021     Stater     Mastel Caster     Sec.23     1145     Mo55     Spuk Task Arbon       0021     Stater     Mastel Caster     Sec.23     1145     Mo55     Spik Arbon       0021     Stater     Sec.23     T165     M055     Spik Arbon <td>COLD B     Fernande: Millate     Set U     TISS     MOSE     Set N Task Alsone       UND B     Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set Q   &lt;</td> <td>0N041 M 0042</td> <td></td> <td>Purchased by TON 12-12-2002</td> <td></td>	COLD B     Fernande: Millate     Set U     TISS     MOSE     Set N Task Alsone       UND B     Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set N Task Alsone       Street nile     Set Q     1125     Nusc     Set Q   <	0N041 M 0042		Purchased by TON 12-12-2002												
Side Mill     Sec 37     1125     Note     Sec 37     Note <t< td=""><td>Lobe     Sive mix     Set 31     1125     Nove     Set 41     Set 41       Lobe     Metanic Cesary     Set 31     1125     Nove     Set 41     Set 41       Lobe     Metanic Cesary     Set 31     1125     Nove     Set 41     Set 41       Note     Set 31     1125     Nove     Set 41     Set 41     Set 41       Note     Note     Note     Set 41     Set 41     Set 41     Set 41       Note     Note     Note     Set 41     Set 41     Set 41     Set 41       Note     Note     Set 41     Set 41     Set 41     Set 41     Set 41       Note     Set 41     Set 41     Set 41     Set 41     Set 41     Set 41       Note     Set 41     Set 41     Set 61     Note     Set 41     Set 41       Note     Set 41     Set 63     TiteS     Note     Set 41     Set 63       Note     Set 64     TiteS     Note     Set 41     Set 64     Set 64       Note     Set 64     TiteS     Note     Set 64     Set 64     Set 64       Note     Set 64     TiteS     Note     Set 64     Set 64     Set 64       Note     Set 64     TiteS     Note&lt;</td><td>M 0045</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>R05E</td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	Lobe     Sive mix     Set 31     1125     Nove     Set 41     Set 41       Lobe     Metanic Cesary     Set 31     1125     Nove     Set 41     Set 41       Lobe     Metanic Cesary     Set 31     1125     Nove     Set 41     Set 41       Note     Set 31     1125     Nove     Set 41     Set 41     Set 41       Note     Note     Note     Set 41     Set 41     Set 41     Set 41       Note     Note     Note     Set 41     Set 41     Set 41     Set 41       Note     Note     Set 41     Set 41     Set 41     Set 41     Set 41       Note     Set 41     Set 41     Set 41     Set 41     Set 41     Set 41       Note     Set 41     Set 41     Set 61     Note     Set 41     Set 41       Note     Set 41     Set 63     TiteS     Note     Set 41     Set 63       Note     Set 64     TiteS     Note     Set 41     Set 64     Set 64       Note     Set 64     TiteS     Note     Set 64     Set 64     Set 64       Note     Set 64     TiteS     Note     Set 64     Set 64     Set 64       Note     Set 64     TiteS     Note<	M 0045								R05E						
10030     Mighant Cooper     Se 34     T125     NOSE     Study Table Arean       NOOL     No 1 Lagan     Purchased by TON May 2000     Se 35     T135     NOSE     Study Table Arean       NOOL     No 1 Lagan     Purchased by TON May 2000     Se 35     T135     NOSE     Study Table Arean       NOOL     No 1 Lagan     Purchased by TON May 2000     Se 35     T135     NOSE     Study Table Arean       NOOL     Study Table Tab	Colde     Magenic Cospy     Sec 3/l     T125     MOSE     Strukt Take A sone       NO15     No11 Cagen     Purchessel by TON May 2009     Sec 20     T135     MOSE     Strukt Take A sone       NO15     No11 Cagen     Purchessel by TON May 2009     Sec 20     T135     MOSE     Strukt Take A sone       NO15     No11 Cagen     Purchessel by TON May 2009     Sec 20     T135     MOSE     Strukt Take A sone       NO15     No11 Cagen     Purchessel by TON May 2009     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sono     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T135     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20     T145     MOSE     Strukt Take A sone       Strukt Take A sone     Sec 20 <td>MOOR</td> <td></td>	MOOR														
NOLES     No.1 Lagan     Purchased by TON May 2000     Sec 25     TISS     MOZE     Sale     Automa       00050     Model No.2 Lagan     Purchased by TON May 2000     Sec 25     TISS     MOZE     Sale     Automa       00050     Octagen     Model No.2 Lagan     Sale     Automa     Automa       00051     Octagen Silver     Delingunt Tax Pinno Co Liet     Sec 25     TISS     MOZE     Sale     Automa       00051     Octagen Silver     Delingunt Tax Pinno Co Liet     Sec 26     TISS     MOZE     Sale     Automa       00052     Delingunt Tax Pinno Co Liet     Sec 26     TISS     MOZE     Sale     Automa       00053     Paralities     Delingunt Tax Pinno Co Liet     Sec 26     TISS     MOZE     Sale     Automa       00051     Appailiance     Delingunt Tax Pinno Co Liet     Sec 26     TISS     MOZE     Sale     Automa       00052     Bane     Delingunt Tax Pinno Co Liet     Sec 36     TISS     MOZE     Sale     Automa       00053     Bane     Delingunt Tax Pinno Co Liet     Sec 36     TISS     MOZE     Sale     Automa       00055     Bane     Delingunt Tax Pinno Co Liet     Sec 36     TISS     MOZE     Sale     Automa	No15 No1 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone Mo16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol by TON May 2009 Sec 23 T155 NO22 Sele Altone No16 No 2 Logan Puchessol Belle Sec 00 T155 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Delenguent Be Pine Co List Sec 00 T165 NO22 Sele Altone NO25 Conch Sele Altone Sele Altone NO25 Conc	M CO 45	Majestic Copper			Sec 31	T125			NOOL				Schuk Toek	Arizona	
NOLE         No. 1 Ligen         Purchased by TON May 2000         Sec. 25         T155         MC2E         Sale         Articone           00051         Generge Millein         Delinguent Tex Pinne Oo Liet         Sec. 25         T155         MC1E         Sec. 44         Articone           00051         Generge Millein         Delinguent Tex Pinne Oo Liet         Sec. 25         T155         MC1E         Sec. 44         Articone           00051         Generge Milleine         Delinguent Tex Pinne Oo Liet         Sec. 05         T165         MC1E         Sec. 44         Articone           00051         Generge Milleine         Delinguent Tex Pinne Oo Liet         Sec. 05         T165         MC1E         Sec. 44         Articone           00052         Reset Delinguent Tex Pinne Oo Liet         Sec. 05         T165         MC1E         Sec. 44         Articone           00055         Ben Ice         Delinguent Tex Pinne Oo Liet         Sec. 05         T165         MC1E         Sec. 44         Articone           00055         Ben Ice         Delinguent Tex Pinne Oo Liet         Sec. 05         T165         MC1E         Sec. 44         Articone           00055         Generate         Delinguent Tex Pinne Oo Liet         Sec. 05         T165         MC1E<	No.10         No.2 Logian         Purchased by TON May 2009         Soc. 20         T155         NO.22         Selice         Alkona           X051         Coldeapa Silver         Delnguant Tille Filme Oc List         Sec. 20         T155         NO.12         Selice         Alkona           X051         Coldeapa Silver         Delnguant Tille Filme Oc List         Sec. 20         T155         NO.12         Selice         Alkona           X051         Coldeapa Silver         Delnguant Tille Filme Oc List         Sec. 00         T155         NO.12         Selice         Alkona           X051         Coldeapa Silver         Delnguant Tille Filme Oc List         Sec. 00         T155         NO.12         Selice         Alkona           X052         Magea         Delnguant Tille Filme Oc List         Sec. 00         T165         NO.12         Selice         Alkona           X055         Bance         Delnguant Tille Filme Oc List         Sec. 00         T165         NO.12         Selice         Alkona           X055         Bance         Delnguant Tille Filme Oc List         Sec. 00         T165         NO.12         Selice         Alkona           X055         Delnguant Tille Filme Oc List         Sec. 00         T165         NO.12         Selice <td>MODE</td> <td></td>	MODE														
00250     Category III alles     Cellat     Sec 25     T125     MD12     Sein     Albona       00251     Category Silver     Delinguant Tax Pinna Co List     Sec 05     T125     MD12     Sein     Albona       00251     Category Silver     Delinguant Tax Pinna Co List     Sec 05     T125     MD12     Sein     Albona       00252     Rescho     Delinguant Tax Pinna Co List     Sec 05     T125     MD12     Sein     Albona       00253     Rescho     Delinguant Tax Pinna Co List     Sec 05     T125     MD12     Sein     Albona       00253     Rescho     Delinguant Tax Pinna Co List     Sec 05     T125     MD12     Sein     Albona       00255     Rescho     Delinguant Tax Pinna Co List     Sec 05     T165     MD12     Sein     Albona       00255     Sente     Delinguant Tax Pinna Co List     Sec 00     T165     MD12     Sein     Albona       00257     Carch     Delinguant Tax Pinna Co List     Sec 00     T165     MD12     Sein     Albona       00257     Carch     Delinguant Tax Pinna Co List     Sec 00     T165     MD12     Sein     Albona       00250     Carch     Delinguant Tax Pinna Co List     Sec 00     T165     MD12 </td <td>255     Citacapi Millaria     Delngunt Tax Pina Co List     Se 25     1155     NG12     Selia     Alzona       265     Citacapi Millaria     Delngunt Tax Pina Co List     Se 25     1155     NG12     Selia     Alzona       265     Citacapi Millaria     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Picacho     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Picacho     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Picacho     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia<!--</td--><td>DN049</td><td></td><td>Purchased by TON May 2009 Purchased by TON May 2009</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td>	255     Citacapi Millaria     Delngunt Tax Pina Co List     Se 25     1155     NG12     Selia     Alzona       265     Citacapi Millaria     Delngunt Tax Pina Co List     Se 25     1155     NG12     Selia     Alzona       265     Citacapi Millaria     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Picacho     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Picacho     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Picacho     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia     Alzona       265     Candult     Delngunt Tax Pina Co List     Se 26     1165     NG12     Selia </td <td>DN049</td> <td></td> <td>Purchased by TON May 2009 Purchased by TON May 2009</td> <td></td>	DN049		Purchased by TON May 2009 Purchased by TON May 2009												
V022     Plassho Millake     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V023     Plassho Millake     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V024     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Plassho Millake     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Orich     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Orich     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Orich     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Orich     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Orich     Deingunt Tax Pinne Os Liet     Sec 05     T165     MOLE     Seite     Attone       V025     Orich     Deingunt Tax Pinne Os Liet     Sec 06     T165     MOLE     Seite     Attone   <	VD22     Plashe     Delegant     Terms Coulat     Sec 05     Trids     R045       VD24     Delegant     Terms Coulat     Sec 05     Trids     R045       VD25     Plashe     Delegant     Terms Coulat     Sec 05     Trids     R045       VD25     Delegant     Terms Coulat     Sec 05     Trids     R045     Set 0       VD25     Delegant     Terms Coulat     Sec 05     Trids     R045     Set 0       VD25     Delegant     Terms Coulat     Sec 05     Trids     R045     Set 0       VD25     Oracle     Delegant     Terms Coulat     Sec 05     Trids     R045       VD25     Oracle     Delegant     Terms Coulat     Sec 05     Trids     R045       VD25     Oracle     Delegant     Terms Coulat     Sec 05     Trids     R045       VD25     Oracle     Delegant     Terms Coulat     Sec 06     Trids     R045       VD25     Oracle     Delegant     Terms Coulat     Sec 06     Trids     R045       VD25     Oracle     Delegant     Terms Coulat     Sec 06     Trids     R045       VD25     Oracle     Delegant     Terms Coulat     Sec 06     Trids     R045 <t< td=""><td>AX050</td><td></td><td>Delinquent Tex Plime Co List</td><td></td><td>Sec 30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Sella</td><td></td><td></td></t<>	AX050		Delinquent Tex Plime Co List		Sec 30								Sella		
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OD25         Banica         Delingunt Tax Pinne Co List         Sec 05         T165         MOLE         Seite         Articola           OD25         Consh         Delingunt Tax Pinne Co List         Sec 05         T165         MOLE         Seite         Articola           OD25         Consh         Delingunt Tax Pinne Co List         Sec 05         T165         MOLE         Seite         Articola           OD25         Consh         Delingunt Tax Pinne Co List         Sec 00         T165         MOLE         Seite         Articola           OD25         Delingunt Tax Pinne Co List         Sec 00         T165         MOLE         Seite         Articola           OU25         Delingunt Tax Pinne Co List         Sec 00         T165         MOLE         Seite         Articola           OU25         Delingunt Tax Pinne Co List         Sec 00         T165         MOLE         Seite         Articola           OU25         Delingunt Tax Pinne Co List         Sec 00         T165         MOLE         Seite         Articola           OU25         Delingunt Tax Pinne Co List         Sec 00         T165         MOLE         Seite         Articola           OD26         Delingunt Tax Pinne Co List         Sec 00         T165	MC55         Bencise         Delinguent Title Pirra Co List         Sec 0         T165         M04E         Set is At bond         At bond           C057         Conch         Delinguent Title Pirra Co List         Sec 0         T165         M04E         Set is At bond         At bond           C058         Conch         Delinguent Title Pirra Co List         Sec 0         T165         M04E         Set is At bond         At bond           C059         Delinguent Title Pirra Co List         Sec 0         T165         M04E         Set is At bond         At bond           M         Delinguent Title Pirra Co List         Set 0         T165         M04E         Set 0         At bond           M         Delinguent Title Pirra Co List         Set 0         T165         M04E         Set 0         At bond           M         Delinguent Title Pirra Co List         Set 0         T165         M04E         Set 0         At bond           M         Delinguent Title Pirra Co List         Set 0         T165         M04E         Set 0         At bond           M         Delinguent Title Pirra Co List         Set 0         T165         M04E         Set 0         At bond           Set 0         Delinguent Title Pirra Co List         Set 0         T	AND 54														
Obj:         Canch         Delinguant Tax Fine Co List         Sec 10         T165         MOLE         Seite         Attorne           OSS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OSS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OSS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne           OS         Conduit         Delinguant Tax Fine Co List         Sec 00         T165         MOLE         Seite         Attorne	XD27         Conch         Delinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Sec 00         T165         R042         Selinguent Tex Pine Co List         Selinguent Tex	AXD55 AXD56		Delinguent Tax Pime Co List						ROAE				Sela		
VDD9         Corpore         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           VD0         Desi         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           VD0         Desi         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           V1         Desi         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           V1         Desi         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           V1         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           V1         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           V1         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         Attons           V1         Desingunt Tax Prime Co List         Sec 00         T105         MOLE         Set 00         MOLE         Set 00         MOLE         Set 00         MOLE         Set 00         MOLE	XD99         Cay ofe         Designent Tex Pinne Co List         Sec 00         T165         R042         Set 0         Set 0         Attorne           11         Deal         Designent Tex Pinne Co List         Set 00         T165         R042         Set 0         Set 0         Attorne           14         Deal         Designent Tex Pinne Co List         Set 00         T165         R042         Set 0         Set 0         Attorne           14         Deal         Designent Tex Pinne Co List         Set 00         T165         R042         Set 0         Set 0         Attorne           14         Deal         Designent Tex Pinne Co List         Set 00         T165         R042         Set 0         Attorne           14         Deal         Designent Tex Pinne Co List         Set 00         T165         R042         Set 0         Attorne           145         Deal         Designent Tex Pinne Co List         Set 00         T145         R045         Set 0         Attorne           145         Deal         Designent Tex Pinne Co List         Set 00         T145         R045         Set 0         R045         Set 0         R045         Set 0         R045         Set 0         R045         R045         Set 0	AXD57		Delinquent Tax Plime Co List		Sec 10	T105							Sella	Arkona	
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Apple         Data <thdata< th="">         Data         Data         <thd< td=""><td>Cold         Data (Cold         Data (Cold<td>*4</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td></thd<></thdata<>	Cold         Data (Cold         Data (Cold <td>*4</td> <td></td>	*4														
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Contraction         Contraction <thcontraction< th=""> <thcontraction< th=""></thcontraction<></thcontraction<>	Constant         Definition         Definition <thdefinition< th="">         Definition         Definition</thdefinition<>			Delinguent Ter Prime Co Lief						WOTE				24.4		
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PIT Database TON Mining Claims	BIT Database TON Mining Claims					245.25										
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# **Unpatented Sites**



Unpatented mining claimant has the right to explore and develop the minerals on the claim, but the government retains the surface rights. An unpatented claim can be challenged. In 1970, the Nation challenged 425 unpatented claims through the BLM validation tests: only 10 remained!

## **A Valuable Mineral Deposit**

## Prudent Man Rule: 1894

"...where minerals have been found and the evidence is of such a character that a person of ordinary prudence would be justified in the further expenditure of his labor and means, with a reasonable prospect of success in developing a valuable mine, the requirements of the statute have been met."

http://www.blm.gov/style/medialib/blm/wo/MINERALS\_\_REALTY\_\_AND\_RESOURCE\_PROTECTION\_/energy.Par.28664.File.dat/MiningClaims.pdf

## **Patented Sites**



After 1955, the Nation was closed to the staking of mining claims, but claims staked from 1872 through 1955 were left in place. ~100 still remain.

## **LEGACY ABANDONED MINES**



Vekol



## **TASK #4: COMMUNITY OUTREACH ACTIVITIES**

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Executive and Legislative Council updates	Educate decision makers.	Create and provide reports and presentations
Community Mining Education and Outreach is needed	Engage local communities and others in an open, honest, and effective discussion concerning mining	Participate in Earth Day April 2016, Youth Edu Mining Days – July 2016; Mining Symposium at the Museum (May 2016), and other tribal events
Post on the DNR intranet web- page - mining info – i.e. links etc.	Educate tribal members.	Get proper approval and permissions to post information on the Nation's Intranet
District and communities meeting presentations and site visits	Manage Natural Resources.	Provide mining presentations and get info especially on "mine scarred land" concerns



ON Mining Off

HIMDAG KI: COMMUNITY ENRICHMENT SERIES



Class Rooms

104

103

7:50 8:00 a.m.	In the Gymnasium	coordinators comn	ients	Mike Henry & Ruben Cu:k B	a'ak		
8:00 – 9:00 a.m. Blessing by – Mike Juan							
Opening	Remarks - Tohono	O'odham Nation Vie	e-Ch	airman Verlon Jose			
Remarks	by – Principal Juli	e McIntyre					
Poster 0	ontest & Stewards	hip Awards presen	ted by	y –Tohono O'odham Nation E	nvironmental Prote	ction Office	
9:05 - 9:25 a.m.	Planting Ceremony	located on the pla	ygroi	und			
9:25 - 10:00 Fur	Run / Walk - Healt	ny O'odham Promot	ion P	rogram			
10:05 – 10:35 a.m.	10:40 - 11:10 a.m.	11:15 - 11:45 a.m.		LUNCH – EXHIBITS OPEN 11:45 – 1:00 p.m.	1:05 – 1:30 p.m.	1:35 – 2:00 p.m.	2:05 - 2:30 p.m.
Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	1.	Range Management, Katherine Espuma One Stop, Cecelia Lopez T.O. Fire. Dreamland Pfeifer	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two-Two & Doug Saunders
Range Conservation Amos Stevens	Range Conservation Amos Stevens	Range Conservation Amos Stevens		Range Conservation Amos Stevens	Range Conservation Amos Stevens	Range Conservation Amos Stevens	
One stop, Cecelia Lopez	One stop, Cecelia Lopez	One stop, Cecelia Lopez	6	Eva Narcho TERO, Clayton Antone & Tiffany Marks	One stop, Cecelia Lopez	One stop, Cecelia Lopez	One stop, Cecelia Lopez
T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter	7.	IHS, Pam Michaelson-Gambrell & Crystal Manuel Water Resources, Justin Manuel	T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter
Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer	9.	Traditional Pottery Demonstration, Kathleen Vance Tohono O'odham Nation	Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer
Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez	11.	Environmental Protection Office Fire Management – Guy Acuna	Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez

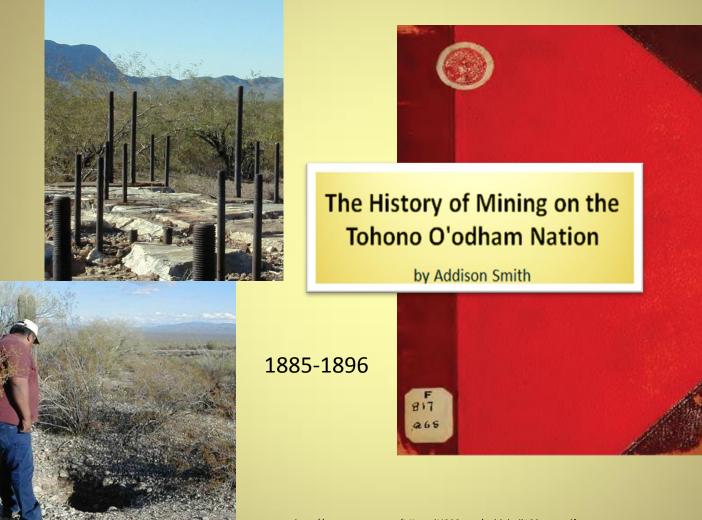
JEWED KA: CIM TASH – Indian Oasis Elementary/Middle School Sells Campus Sells AZ 8963+ April 29, 2016

201 704 705A	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale TONNR	T.O Nation Mining, Laurie Sufer Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plants & Animale TONNR	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale	7. 8. 9. 10. 11.	IH8, Pam Michaelson-Gambrell & Crystal Manuel Water Resources, Justin Manuel Traditional Pottery Demonstration, Kathleen Vance Tohono O'odham Nation Environmental Protection Office	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono,	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono.	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer
705A	Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale TONNR	Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale	Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez	9. 10. 11.	Traditional Pottery Demonstration, Kathleen Vance Tohono O'odham Nation Environmental Protection Office	Fire Department Dreamland Pfeifer	Fire Department Dreamland Pfeifer	Fire Department Dreamland Pfeifer
_	Cody Martinez Plante & Animale TONNR	Cody Martinez Plante & Animale	Cody Martinez	11.	Environmental Protection Office	Cyprus Tohono.	Common Tachanan	
	TONNR				Fire Management – Guy Acuna	Cody Martinez	Cody Martinez	Cyprus Tohono, Cody Martinez
705B	Holly Barton	Holly Barton	TONNR Holly Barton	12 13. 14.	Natural Resources, Holly Barton Desert Museum, Alyssa Killian Desert Museum Live Animale, Jeaus Garcia	Plants & Animals TONNR Holly Barton	Plants & Animals TONNR Holly Barton	Plants & Animals TONNR Holly Barton
706	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya	15.	U of A, Marti Lindsey NOAO, Rob Sparks	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya
900	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan	17. 18.	TOCC, David Stone ITCA, Africa Dorame-Avalos & Shaina White	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan
<mark>901</mark>	IHS Diabetee Program Ruby Floree	IHS Diabetee Program Ruby Flores	IHS Diabetes Program Ruby Flores	19. 20.	Tohono O'odham Cultural Museum, Ana Montoya Tohono O'odham Youth Services,	IHS Diabetes Program Ruby Flores	IHS Diabetes Program Ruby Flores	IHS Diabetee Program Ruby Floree
902	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley	21.	Cissimarie Juan Tohono O'odham Cultural Affairs, Jefford Francisco	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley
Library	U of A, Marti Lindsey	U of A, Marti Lindsey	U of A, Marti Lindsey	22. 23. 24.	Tribal Warm Line Program, Angel Cadue U.S. Air Force, Susan Gladstein TOCC Traditional Foods CATED IN THE GYMNASIUM	U of A, Marti Lindsey	U of A, Marti Lindsey	U of A, Marti Lindsey





## "Quijotoa: Boom and Bust in the Arizona Desert"



http://www.azgs.az.gov/Mineral%20Scans/gold\_bull180\_ocr.pdf https://archive.org/stream/quijotoaminingdi00step#page/n7/mode/2up http://www.statemuseum.arizona.edu/exhibits/goldie/bio\_2.shtml http://www.arizonahistoricalsociety.org/wp-content/upLoads/library\_Quijotoa-Mine.pdf

# DESERT

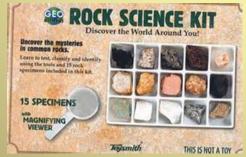
# SONORA

Mineral – naturally occurring homogeneous solid with definite chemical composition and an ordered atomic arrangement.

## Rocks & Minerals Identification

by Arizona Sonoran Desert Museum

**Rock** – a naturally formed, stable aggregation of minerals







Calcite is a mineral Limestone is a rock containing calcite

## drill + blast + load + haul





## **Mining Equipment Simulators**

by Freeport-McMoRan Inc.



### LOWELL INSTITUTE FOR MINERAL RESOURCES

### Mining: It's in Everything!

by Pamela A.K. Wilkinson, Lowell Institute for Mineral Resources So you think you can live without mines?

Hands-on activities will show you the variety of rocks and minerals that go into the things we use every day and teach you by mining BBs out from sand.

# UA SRP Participates in Tohono O'odham Mining Education Days



### **Copper Mining and Processing**

by UofA Superfund Research Group

Denise Moreno Ramirez, Pam Wilkinson, Karletta Chief, Lydia Jennings, Sarah Wilkinson, Juliana Gil-Loiaza, Laurie Suter, John Hottenstein, Lydia Jennings

## New Tribal Mining Module on Copper Available

### The UA SRP Community Engagement Core has released the first module of the "Mining and Environmental Educational Modules for Tribal Colleges" collection.

http://www.superfund.pharmacy.arizona.edu/highlights/new-tribal-mining-module-copper-available





# **ACTIVITY!**

### Introductions:

- ✓ Your name
- ✓ Affiliation
- ✓ Brief reason for your interest in mining
- ✓ One personal fun fact

Please sign in on the attendees sheet! Please fill out session evaluation!

## **Class Outline:**

• Mining on Tohono O'odham Tribal Lands

# Mining History

- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion

# 2nd Oldest Industry!

"If it isn't grown, it must be mined"

- Mining is a part of human advancement
- Oldest Mine: 20,000-40,000 years ago Red Ochre
   mined in Africa for use in rock paintings
- Native Americans mined copper 5000-1200 BC
   for knives, arrows, spear heads, and axes
- Copper was mined 5000 years ago on Cyprus Island
  - Ancient Greek & Roman mined copper to make armor
  - released trace metals discovered in Greenland ice cores

# **Federal Mining Laws**

### • General Mining Law of 1872

- Valuable mineral deposits in lands belonging to the United States shall be free and open to exploration and purchase by US citizens
- TON = 17,000 claims 1872-1955

## Surface Resources Act of 1955

- All Indian reservations are federally closed to location of mining claims ("WITHDRAWN"). Requests must be made directly to Tribes.
- Holders of patented mining claims and sites located within lands later withdrawn from mineral entry (tribal), must prove their right to continue to occupy and use the land for mining purposes. (*Prudent Man Rule*)
- 1960's TON challenged all claims

## • Federal Land Policy and Management Act of 1976

- "authorizing and permitting of mineral exploration, mining, and reclamation actions governed by the Bureau of Land Management (BLM)
- BLM supervises exploration, development, and production operations of resources on Indian lands.

# Many Agencies Regulate Mining

- Section 402 NPDES Water Discharge Permit
- Air Quality Permit
- Section 404 Dredge and Fill Permit
- Section 106 Historical and Cultural Resources Protection
- Marine Mammal Protection Act
- Threatened and Endangered Species Act
- Essential Fish Habitat
- Fish and Wildlife Coordination Act
- Bald Eagle Protection Act
- Migratory Bird Protection



## **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History

# Basic Mining Concepts

- Life Cycle Of A Mine
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- Discussion

# Mineral Resources of the Lithosphere, South Africa

"Lithosphere: #1 lesson"

https://www.youtube.com/watch?v=e0EyZS5rfOU

(skip to time 15.19)

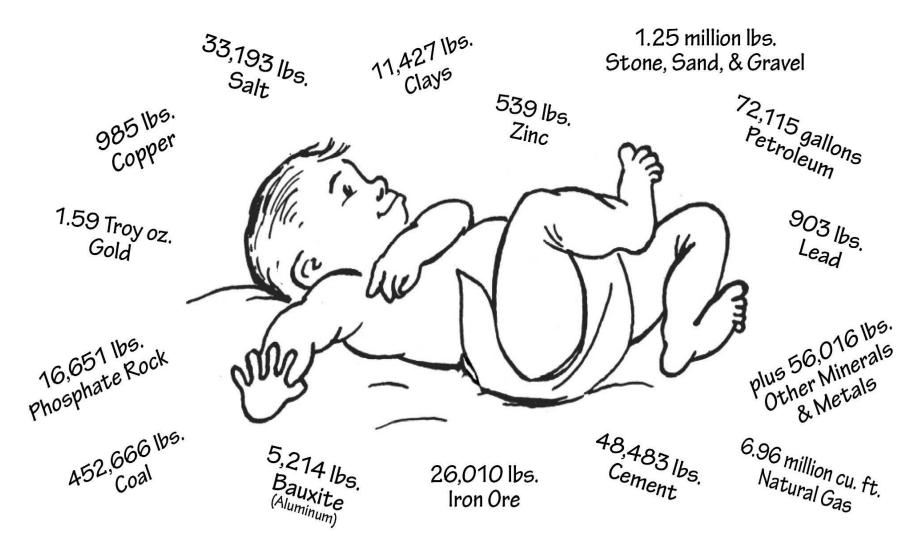
## **Mines are Everywhere**

Mines are in every state

500,000 abandoned mines

14,000 active mines

## **Every American Born Will Need...**



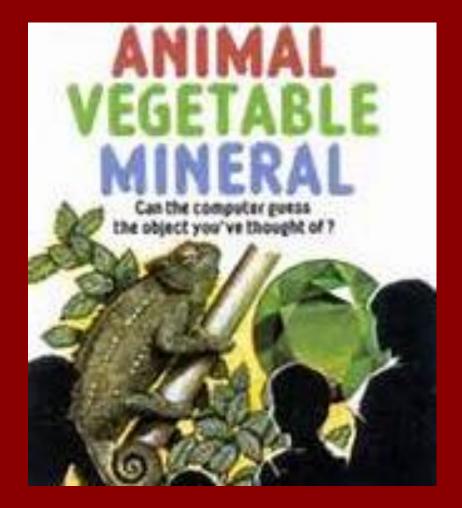
#### 3.11 million pounds of minerals, metals, and fuels in their lifetime

©2015 Minerals Education Coalition

The Society for Mining, Metallurgy & Exploration Foundation

Learn more at www.MineralsEducationCoalition.org





#### 70% of all metal is used only once and then thrown away



## **Reduce Reuse Recycle**

http://www.brighthub.com/environment/green-living/articles/66929.aspx



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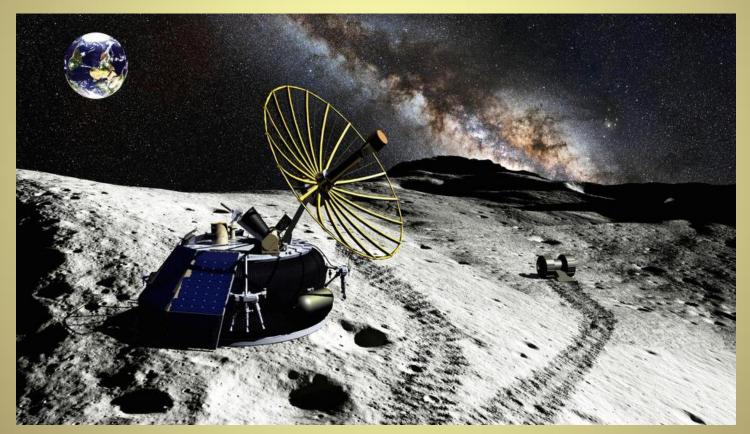
# \$8 trillion alternative energy boom is a win for copper



Copper remains an irreplaceable component in our ever-expanding energy needs.

Mining News Digest <miningnewsdigest@e.mining.com>

Moon Express believes there is a viable business flying commercial flights to the Earth's only natural satellite and potentially mining its resources.



http://www.mining.com/wp-content/uploads/2016/06/us-government-expected-to-green-light-first-private-moon-mission.jpg

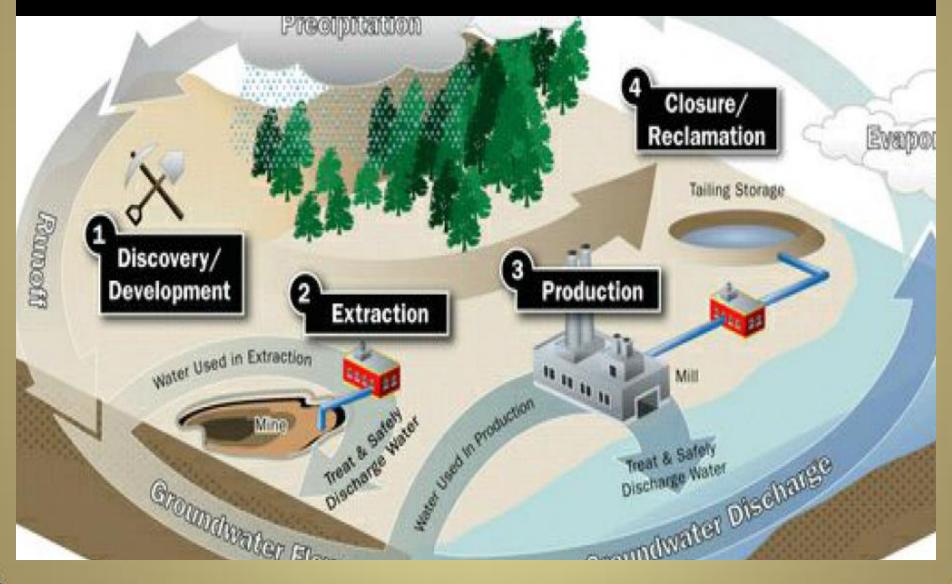
## **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts

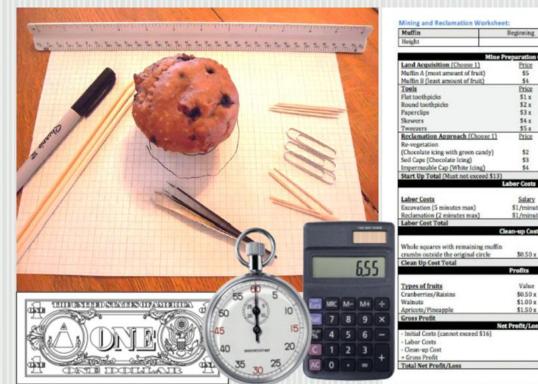
## • Life Cycle of a Mine

- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion

# **Stages of Mining**



# **ACTIVITY!**



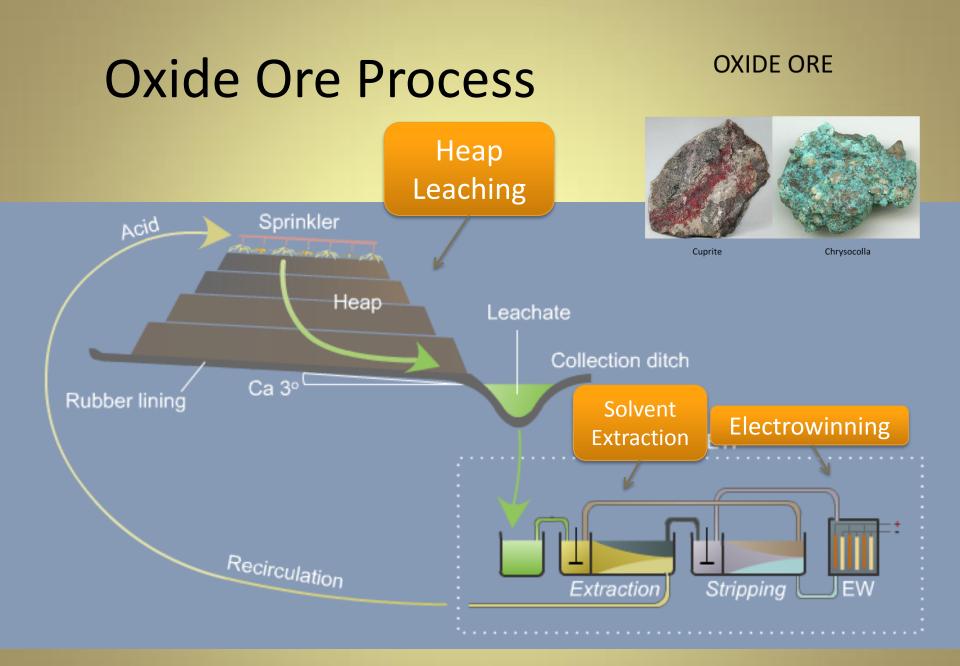
Mine Pr	reparation Co	sts	
Land Acquisition (Choose 1)	Price		My Expenses
Muffin A (most amount of fruit)	\$5		5
Muffin 8 (least amount of fruit)	\$4		5
Tools	Price	Number used	My Expenses:
Flat toothpicks	\$1 x		5
Round toothpicks	\$2 x		5
Paperclips	\$3 x	5	5
Skewers	\$4 x	¢	5
Tweezers	\$5 x		5
Reclamation Approach (Choose 1)	Price		My Expenses
Re-vegetation			
(Chocolate icing with green candy)	\$2		5
Soil Caps (Chocolate Icing)	\$3		5
Impermeable Cap (White Icing)	\$4		5
Start Up Total [Must not exceed \$13]			5
4	abor Costs		
	-	Number of	CONTRACTOR OF THE
Labor Costa	Salary	minutes	My Expenses
Excavation (5 minutes max)	\$1/minute		5
Reclamation (2 minutes max) Labor Cost Total	\$1/minute		5
	an-up Cost		3
	tan-up cost	Number of	
Whole squares with remaining muffin			My Expenses
crumbs outside the original circle	\$0.50 x	squares	S S
Clean Up Cost Total	30.30 X		5
arean op cost rotat	Profits		
		Number	
Types of fruits	Value	excavated	Money Earned
Cranberries/Raisins	\$0.50 x		S
Walnuts	\$1.00 x		S
Apricots/Pineapple	\$1.50 x		5
Gross Profit			5
	Profit/Loss		
Initial Costs (cannot exceed \$16)			5
Labor Costs			5
Clean-up Cost			5
- Gross Profit			5
Total Net Profit/Loss			

End

#### Life Cycle of Mine

- Prospecting: finding it
- Exploration: defining it
- **Development**: planning it
- Exploitation: mining it
- Closure/reclamation: cleaning it up





#### SULFIDE ORE



Chalcopyrite

Chalcocite

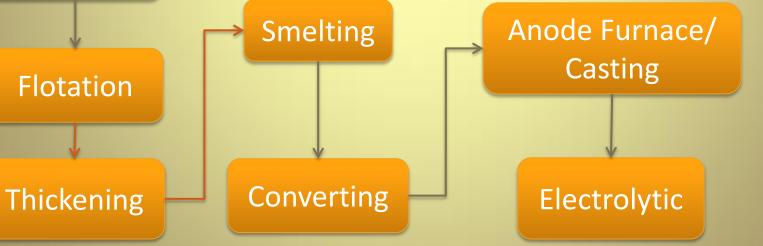












**RECLAMATION AND CLOSURE GOALS:** 

## Physical stability

Prevent potential failures, collapses, erosion

## Chemical stability

Prevent run off, poor quality leachate, air and water quality issues

## Biological stability

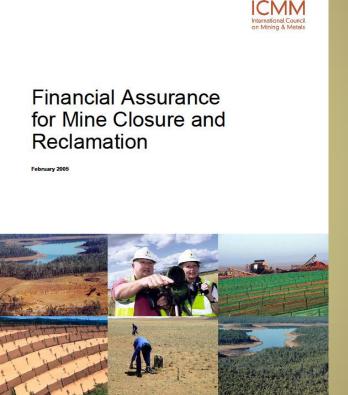
Vegetated cover

#### Land use

Safe and productive land

#### Financial Assurance for Closure and Reclamation

"An important component of mine planning is consideration of how closure and reclamation will be funded...."



http://www.icmm.com/document/282

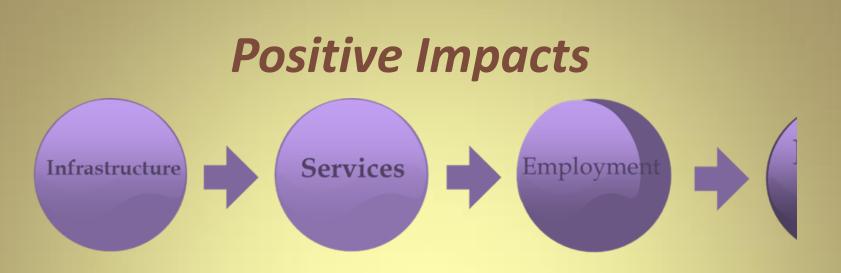
## **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine

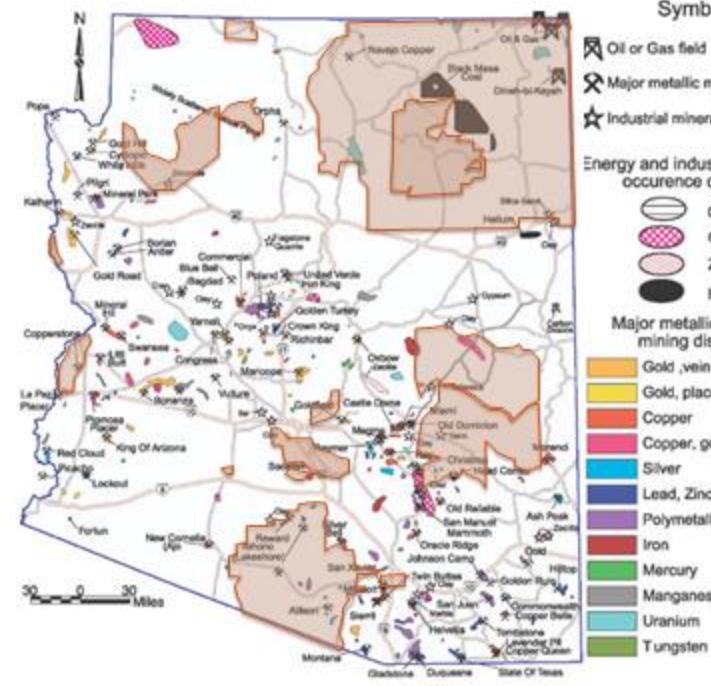
## Potential Positive Tribal Gains

- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion





- Mining contributed \$4.8 billion in 2012 to Arizona
- Worldwide >13 million employed by small mines
- Local Economic Development
  - ✓ Indirectly: 1 mining job = 11 other jobs
- Education, schools, training, hospitals, roads, electricity, clean drinking water, wastewater treatment...
- Access to Mineral Resources



#### Symbols Oil or Gas field Major metallic mineral mine Y Industrial mineral production site Energy and industrial mineral occurence districts Cosl -----Gypsum Zeolites Helium Major metallic mineral mining districts Gold ,vein or disseminated Gold, placer Copper Copper, gold Säver Lead, Zinc, Silver Polymetallic Mercury Manganese Uranium

#### **TASK #5: MINING WORKFORCE DEVELOPMENT**

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
		Invest time in developing mining
Help develop a tribal program to	Economic Development.	education and training programs that
improve the skills of a potential	Jobs for Youth and	improve the skills and productivity of
mining workforce	Adults.	the workforce; talk to UofA, TOCC,
		TERO, MSHA, BIA & BLM

#### AZ Jobs (March 2015)

910 Mining jobs :	401 Casino jobs:
	\$20,000+ (241)
\$40,000+ (370)	\$40,000+ (102)
\$60,000+ (252)	\$60,000+ (30)
\$80,000+ (162)	\$80,000+ (17)
\$100,000+ (85)	\$100,000+ (11)
\$120,000+ (41)	

# **Mining Royalties**



DIRECTIONS IN DEVELOPMENT Energy and Mining

#### **Mining Royalties**

A Global Study of Their Impact on Investors, Government, and Civil Society

James Otto, Craig Andrews, Fred Cawood, Michael Doggett, Pietro Guj, Frank Stermole, John Stermole, and John Tilton

COLO INTER INCIDE DATES

http://siteresources.worldbank.org/INTOGMC/Resources/336099-1156955107170/miningroyaltiespublication.pdf

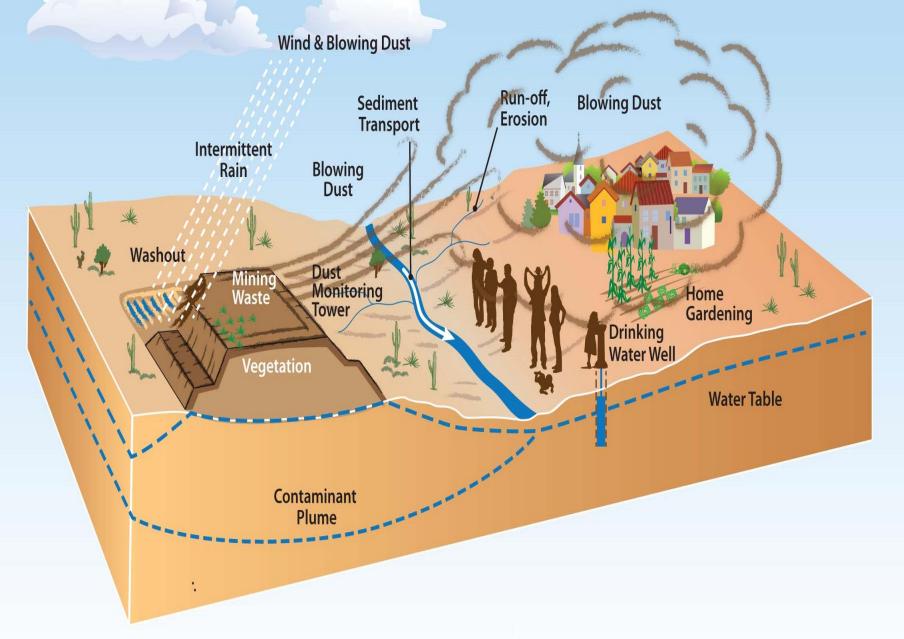
## **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains

# "Multi-media" Environmental Concerns

- Sovereign Involvement
- Discussion

# **Environmental Concerns**



## Air quality is an issue at every mine

## • Monitor:

- ✓ Collect baseline air quality and climatological data
- Define potential respiratory health impacts for both mine workers and nearby communities

## • Control:

- ✓ Direct using water, binders or wetting agent applications
- ✓ Revegetation of disturbed areas concurrent with operations



# **Land Impacts**

## Direct:

- Physical alteration
- loss of habitat and vegetation
- Soil contamination

## Indirect:

- Wildlife
- Subsistence users

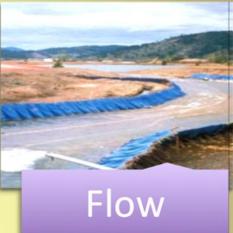




## Water Impacts



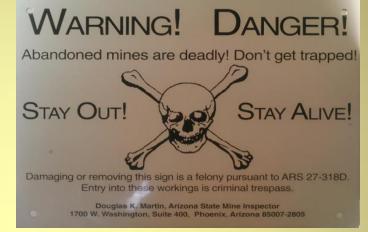




- Control!
- Minimize contact between wastes and water
- Maximize water reuse
- Prevention!

## Solid & Hazardous Waste









## **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns

## Sovereign Involvement

Discussion

## How can tribes be involved?

- ✓ Tribal Standards, Policies, Regulations
- ✓ Partnerships
- ✓ Site Visits
- *Early & frequent contact with project components, lead agency & advocates*
- ✓ Government to Government Consultation
- Participate in Public Hearings & Meetings
- ✓ Traditional Knowledge Surveys
- ✓ Training / Education

#### **TASK #6: DOCUMENT NATION'S MINING GOALS**

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Mining Environmental Management Plan	Manage Natural Resources.	Draft protocol for potential of prospecting, exploration, and mining
TON Mining Permit Guide	Provide guide to Parties interested in mining minerals on TO Nation's lands.	Arizona has a mine permit guide that can be used as guide to Draft a TON mining guide
Determining Nation's reclamation goals for post- mining land and undertake measures to reduce the footprint of sites	Reduce the mining footprint.	Draft procedures for reclamation of post-mining land. Natural Resources Damage Protection Ordinance?

## ROSEMONT

Tohono O'odham Nation Office of the Chairman & Vice Chairwoman COMPASSION FAITH TRADITION RESPEC Wavalene M. Romero Ned Norris, Jr. Chairman Vice Chairwoman

The Honorable Tom Vilsack Secretary U.S. Department of Agriculture 1400 Independence Ave., S.W. Washington, D.C. 20250 agsec@usda.gov

Via Email and U.S. Mail

August 20, 2013

RE: Rosemont Mine Project

Dear Secretary Vilsack:

We write to you to respectfully request that the expediting of the Final Environmental Impact Statement and associated Record of Decision for the Rosemont Mine Project ("Project") be stopped. The Tohono O'odham Nation recently learned that the Forest Service plans to issue a Record of Decision in this matter at the end of September. This deadline certainly came as a shock to the Nation, as no such date had been previously mentioned. The announcement came when the Forest Service distributed to the Cooperating Agencies the Draft Final Environmental Impact Statement. This arbitrary deadline has apparently been proposed to avoid new regulations that would otherwise apply to this Project, replacing the current administrative appeal process with an objection process.

First, with respect to the new deadline, the Nation takes issue with the late notice of this arbitrary deadline. The new regulations became effective for non-Healthy Forests Restoration Act projects on March 27, 2013. 36 C.F.R. § 218.16(b). The Forest Service knew or should have known then that the new regulations would apply to proposals such as the Project if no decision was rendered prior to September 27, 2013. Yet, the Forest Service did not inform tribes or Cooperating Agencies that they were attempting to shoehora the Project in under the old regulations. Instead, Cooperating Agencies were informed on July 1, 2013, of this impending deadline. This sudden urgency is simply unwarranted. The regulations provide that the Forest Service merely must notify interested and affected parties that the project will be subject to the new regulations if a decision will be issued after September 27, 2013. Processing this Project under the new regulations rather than rushing a decision under the old regulations will ensure full

O Box 837, Sells, AZ 85634. (520)383-2028 . Fax (520)383-5379

#### http://www.rosemontminetruth.com/



#### "Ours is the Land"

Shown with permission from Frances Causey

Google earth

Imagery Date: 1/3/2015 31°50'58.96" N 110°50'38.08" W elev 3654 ft eye alt 17.83 mi

#### ADDATA MEDIA PTESENTS **OURS IS THE LAND**

Note Section Penetry and they be the Penerry Sector S

#### The impact of mining on Tohono O'odham sacred burial grounds Torone New Area, Joint Japan Taxie Drive of New Taxiet, be New Area New John Star Rear Rear Securities and Area

# "Ours Is The Land"

#### https://www.youtube.com/watch?v=I45jawKk4G0

(trailer = 1:51 mins,

#### **Sierrita Mine**

✓ Historical Sites visit✓ Cultural Landscape

#### Traditional Ecological Knowledge (TEK) Cultural Landscape Study



MONTANE

RESOURCES

RIPARIAN

ESOURCE

A Traditional Environmental Knowledge-based Scenario

AIR AND DUST

INHALATION

DIRECT SOIL

"...efforts must start from the perspective of indigenous knowledge of local ecology. Science magazine (10 June 2016 vol. 352 issue 6291)

#### TASK #7: ATTEND MINING SYMPOSIUMS, EDUCATIONAL, TRAINING AND CERTIFICATION EVENTS

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Attend meetings on mining issues: SME, Tribal Lands Forum, NTMW	Protect tribal Natural Resources by being informed. Educate Public.	Travel costs currently paid from personal funds; some scholarship reimbursements are provided by sponsoring agencies.
MSHA	Maintain certifications.	Free training available through FCX at CTC.
HAZWOPER	Maintain certifications.	Paid from personal funds; seek free training.

	Certificate of Training
	Opprove and a second seco
Vicitation and imment	adute to concers requires <u>outputs</u> <u>Expires July 31, 2014</u> and 110, <u>Public Law 91, 121</u> In penalty Law 91, 2014
Certificate of Achievement	Li Certife de ama dod au de an
	Upon Completion of Training Print Full Name of Person Training Check Type of Approved Turk 2 Check Type of Approved Turk 2 Annual
Laurie L. Suter	Refinesh
has successfully completed the 8 hour course	(specify below)
HAZWOPER Annual Refresher HAZWOPER Vith OSHA 29 CFR 1910.120(e)	Task Initials Date Date Determined
HAZWOPER ANNUAL RE- In compliance with OSHA 29 CFR 1910.120(e)	Initials venenced Miner Date Date Constructions
7 Professional Development Hours Instructor: Corey Reed Instructor: 28, 2015	
Instructor: Corey Access Training Date: January 28, 2015 Expiration Date: January 28, 2016 Expiration Date: J6695214882	A. Surface     B. Coal     Construction     A. Date Training Rescuence
Expiration Date: January Termination Date: January Termination Date: January Termination Date: January Termination Director of Operations: Carole P. Ber Director of Operations: Carole P. Ber	NZ 2 12 Indergravitements Computer Comp
Laurie L. Sure The successfully completed the 8 hour course An successfully completed the 8 hour course An accessfully completed the 8 hour course An	Hazarr Be
Corporate & Mailing Address: 5532 E. Grant Road • Tucson, AZ 85712 • 500-371- Corporate & Mailing Address: 5532 E. Grant Road • Tucson, AZ 8573 • 602-923 Phoenix Training Center: 2516 E. University Dr. Ste. 20 • Phoenix, AZ 8503 • 602-923	Hazard D. Hazard
CONFLICTED TO THE AND	Has Anno Indedures L Mino II
	Self-Ress
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PimaMaps Classes	False courses Authority and Au
Pima County ITD Geographic Information Systems is presenting classes for P	amended by P. L. 95-164. Mine Name, ID. & Location of Training CYPCias
PimaMaps Classes Pima County ITD Geographic Information Systems is presenting classes for P web mapping system. These classes are free and open to both the public an is two hours long. Registration is not required and seating is limited to appr	CYPNUS Location of Training (if institution give name & address)
Seven sessions are scheduled for July through October:	ASA Graude and in institution give name & address) ate a Graude AZ 8522
Thursday, July 30th, 9:00 to 11:00 AM	lin lie en
Tuesday, August 4th, 2:00 to 4:00 PM     Thursday, August 27th, 9:00 to 11:00 AM	Form 6000-23, Jan. 99 (revised)
<ul> <li>Tuesday, September 1st, 2:00 to 4:00 PM</li> <li>Tuesday, September 22nd, 2:00 to 4:00 PM</li> </ul>	Copy 1 - Employer's Personnel Record
<ul> <li>Tuesday, October 20th, 2:00 to 4:00 PM</li> <li>Thursday, October 22nd, 9:00 to 11:00AM</li> </ul>	-ourriel Record
All classes will be held in basement conference room C of the Public Works Bu	ilding, 201 N. Stone Ave. (NW corner
of Stone & Alameda). These presentation-style classes review the features of th http://gis.pima.gov/pimamaps/ @.	he PimaMaps Main Map available at

# **Professional Mineral Property Evaluation Course**



#### Society for Mining, Metallurgy & Exploration .

uperfund Research Pro

A-DRIVEN WORLD

SATI

Minerals Valuation II:

Lessons Learned and

#### THE FUTURE FOR MINING IN A DATA-DRIVEN WORLD 2016 ANNUAL CONFERENCE & EXPO Environmental: Sustainable **Outcomes of Effective** Remediation/Reclamation - Mint Stakeholder Engagement Homewand Renediation Reclamation

SME

Applyim

Emironmental: Sustainable

SME

SME

Chairs: S. Fecht, Ramboll ENVIRON, Westford, MA L. Wong, Lunding Mining, Toronto, Ontario, Canada Human Rights and Business Procedures: Grievance Mechanisms tion regins and pushess revenues, a revaice metianism Using data to improve the relationship with stakeholders: Using data to improve the relationship with stakeholders:
 Using data to improve the relationship with stakeholders:
 While reinforcing engagement
 Whi K Parameswaran; tigMM Strategic Consulting, Scottsdale, A7 Sustainable Outcomes from Effective Stakeholder Eng Nine and W. Bustainable Dutcomes from Effective Stakeholder En Nine and W. Buines; Energy Nines and Resources, Government of Yukon, Whiteh Unravel Social Devicements in the Operation of the American Social Devicements in the American Social Unravel Social Performance, us used of recent as a 1. forge and L. Russell, Transfert Environment & Society, Montr and Hecia Mining, Washington, DC Resettlement and economic development in Guer Torex Gold's El Limón Guajes Mine M. Thorpe and A. Mallen; Torex Gold Resources; Toronto, DN, Ca

#### **TRIBAL ENVIRONMENTAL LAW SEMINAR**



SHORT CRESSMAN & BURGESS PLLC, Tribal Practice Group "Exercising Tribal Sovereignty to Protect and Preserve Tribal Natural Resources, Foods and Lifeways."

## "Superfund Essentials" Training



### ITEP Superfund Training and Site Visit: The Bunker Hill Superfund Site

#### **NATIONAL TRIBAL MINING WORKGROUP (NTMW)**



#### Network with other tribes



#### 

**NEPA & Mining** 101 Webinar

**Three Part Series:** May 12, 24, and June 8 1:00-3:00 EDT



#### SAVE THE DATE



Tribal Engagement and Environmental Responsibility

NOVEMBER 2-4, 2016 IN PHOENIX-TEMPE **AT ARIZONA STATE UNIVERSITY** 

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Registration Opens June of 2016 Visit www.ntmw.org for More Information

Regulatory Permitti Traditional Ecological Knowledge Reclamation Air Quality Impacts A Protecting Water Resour

## **Class Outline:**

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement



# **ACTIVITY!**

 Why is mining controversial? What are some deciding factors for or against mining?





For more information contact:

#### **Laurie Suter**

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