Once Upon Two Mines: A Diné Community Perspective

The History of the Red Water Pond Road Community Association and its Experience with Uranium Wastes



Presentation to Albuquerque Center for Peace and Justice December 1, 2016

Edith Hood and Bertha Nez, Red Water Pond Road Community Association with Chris Shuey, Southwest Research and Information Center

Location Map for Red Water Pond Community Area Coyote Canyon Chapter, Navajo Nation



rtheast Church

Cock Mine © 2012 Google (UNC/GE) _AR

35°39'47 05" N 108°30'36,01" W elev 2152 m

Eye alt 3.95 km

Communities neighboring Red Water Pond Road Community

Standing Black Tree Mesa (Tsin Łizhin Ei'aah) traditional use area

Current (2012) Red Water Pond Community

area .

666

Pipeline Road Community area

© 2012 Google

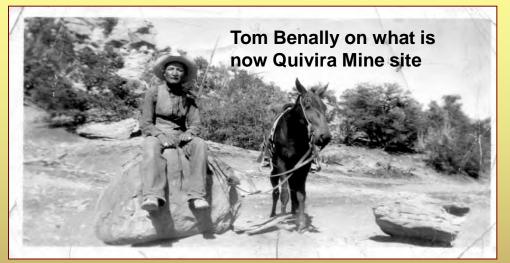
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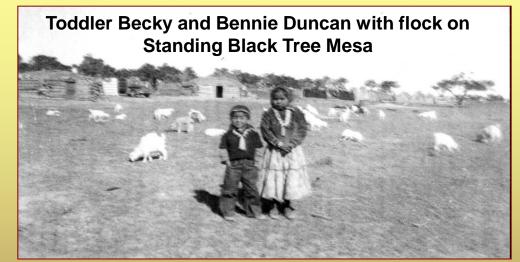
35°40'23.25" N 108°30'03.66" W elev 2273 m

Eye alt 8.77 km

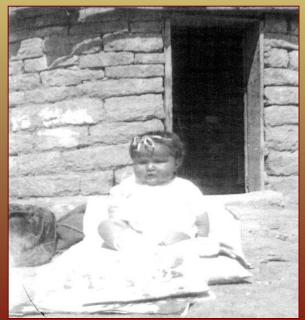
Google earth

Family's presence dates back to 1920s; these photos from 1930s-1940s



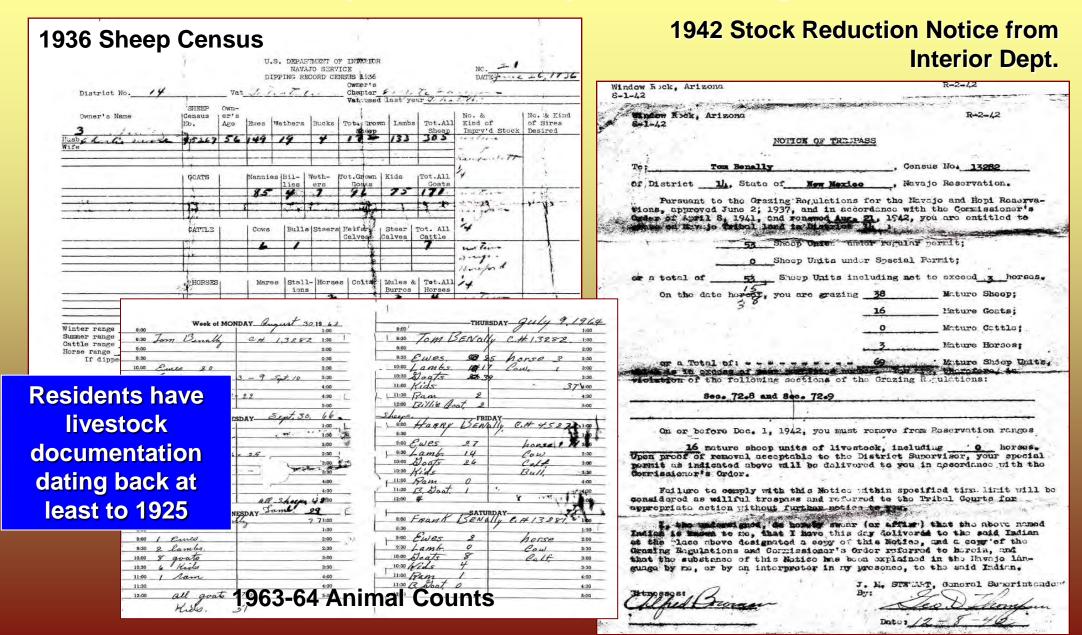




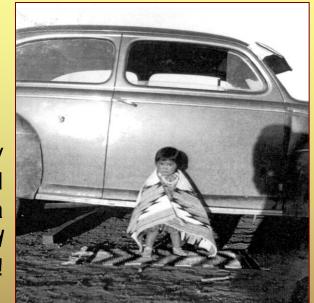




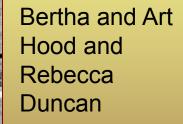
80-year History of Grazing

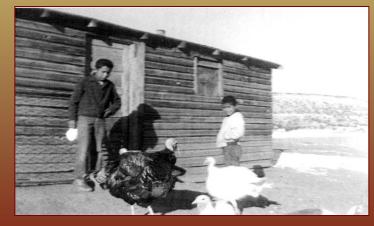


1950s-1960s → 2007











Edith, front now in middle, testified before Rep. Henry Waxman (middle, back row) and House Oversight Committee, 2007

1970-80s





Art Hood and nieces, late-80s; KM Mine waste in background

Jack Hood, late 1970s; KM Mine waste in background



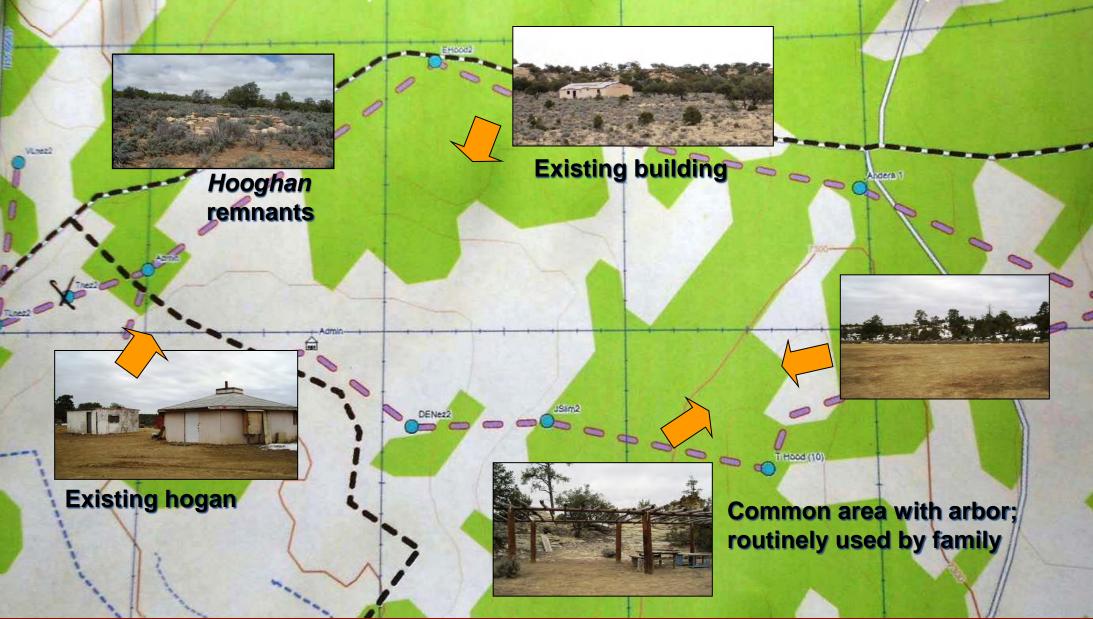
Late 70s: Hood children play in shadow of Kerr-McGee/Quivira Church Rock I Mine

We are part of this land, and it is a part of us Annual Picnic on Tsin Łizhin Ei'aah



"Treat the earth well: it was not given to you by your parents, it was loaned to you by your children. We do not inherit the Earth from our Ancestors, we borrow it from our Children."

Standing Black Tree Mesa (Tsin Łizhin Ei'aah) – Traditional family land 2 miles north of Red Water Pond Community



Testimonials by RWPRCA Members



"[A]s I pray in the early morning, there is a manmade mesa of radioactive and hazardous waste about a quarter of a mile northeast of my residence. In the other direction is another mound of uranium mining waste.... This waste seems to be piled everywhere...This stuff is spread by wind and water. We breathe it and live with it every day"

 Edith Hood, testimony before U.S. House Committee on Oversight, October 23, 2007



"How much more trauma can we take?" – Tony Hood at USEPA hearing on Northeast Church Rock Mine clean-up plan, October 2009



"Nobody warned us we would be living all this time with this risk"

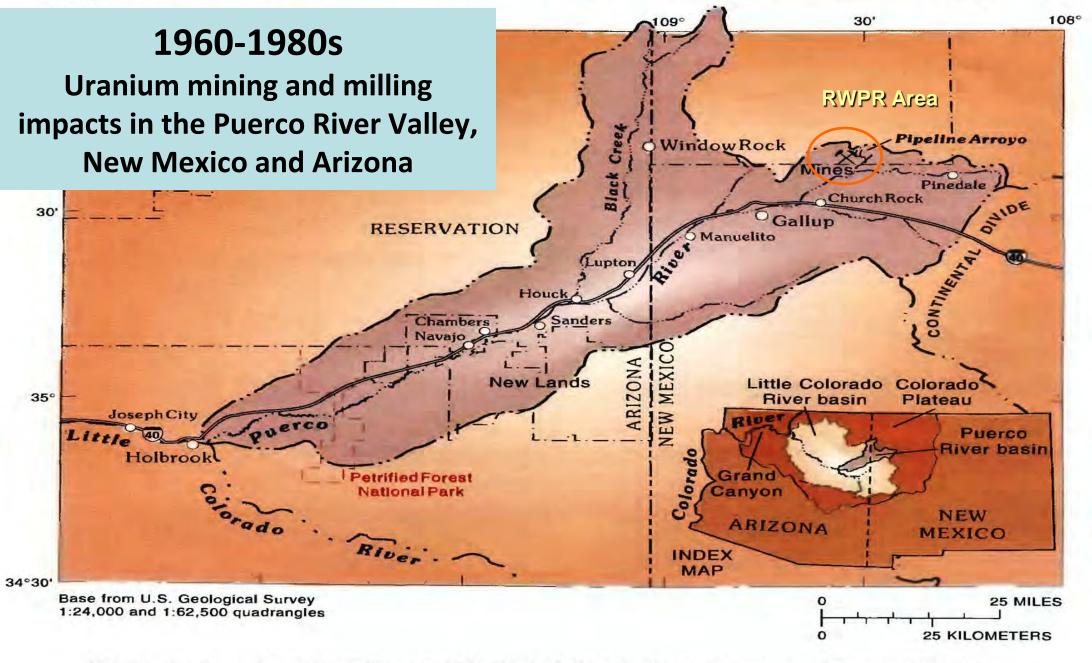
- Bertha Nez as quoted in the *New York Times*, 2014

Uranium Mining Era, 1969-1986



Top: United Nuclear Corp. Northeast Church Rock Mine (1972) and 1978 aerial view of NECR Mine water ponds with discharges to north. Bottom: Kerr-McGee Mine under development (left), construction crew (middle), Red Water Pond Road to KM Mine (1972-1973. *An estimated 1.8 million cubic yards of mine wastes are present at these sites.*





The Puerco River is a major tributary of the Little Colorado River. Recent population growth and 12 changing lifestyles have created an increased demand for water in the basin.

Church Rock Uranium Mill Tailings Spill July 16, 1979*

(*remains the largest release of radioactive wastes, by volume, in US history)



Photos courtesy of Southwest Research and Information Center, New Mexico Environmental Improvement Division, Albuquerque Journal.

RWPRCA participated in DiNEH Project blood and urine collection at end of first soil removal action, June 2007



RWPR members were consented to participate in DiNEH Project blood and urine collections (photo, top left) that were done in a local family's home in June 2007 (photo, bottom left). Results, in the chart below, showed 22 RWPRCA residents had *significantly higher median uraniumurine levels* than the average America adult (NHANES), without concurrent drinking water exposure, and higher than New Mexican adults (NMDOH).



Urine-uranium concentrations (in ug-U/g-creatinine) in three cohorts

Study →	DiNEH Kidney Study (2007)	NMDOH (2003-2008)	NHANES (2001-2002)
Participants →	22 residents* near U mines	NM statewide N=817	Nationwide N=2,689
Median	0.0441	0.026	0.007
3 rd Quartile	0.0818	0.058	.014
95 th percentile	0.3562	0.354	.040

*No current exposure to uranium in water sources

DiNEH Project found *significantly increased risks* of hypertension, autoimmune disease and one or more chronic diseases during "environmental legacy" period and of kidney disease during "active mining" era*



- 1) Proximity of each resident's home* to all of the abandoned uranium mine and mill waste features in the study area (N=100)
- 2) Reported activities that may result in exposure to uranium mine and mill wastes, as shown in these photos
- A: Used materials from abandoned uranium mine or mill (17%)
- B: Herded livestock next to uranium mine, mill or waste dump (13%)
- C: Drunk or contacted uranium mine waste water (13%)
- D: Played on a uranium tailings pile or waste dump (13%)
- E: Played outdoors near a uranium mine, mill, or waste dump (12%)
- F: Sheltered livestock in an abandoned uranium mine (2%)

*Note: Median length of residence in current homes was 33 years

*Source: Hund et al., 2015, Journal of Royal Statistical Society, Series A, Statistics in Society



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RWPRCA documented problems with livestock, 2006-2007



These photos above show discoloration of sheep meat (left) and goat born without hair (right). The goat lived for less than an hour. These sheep were raised in Red Water Pond Road area. Photo montages made by Bertha Nez.

2009-2016: RWPRCA Sponsored Uranium Legacy Remembrance and Action Day



Environmental Trauma RWPR Community, NECR Mine, Temporary "Relocation"



Above: Community members working with SRIC helped document radiation levels around homes next to the NECR Mine, leading to a USEPA-mandated study in 2005-2006.

Below: USEPA ordered GE to remove radium- and uranium-contaminated soils from around homes in 2007, 2009-10, and 2012. Residents lived in hotels in Gallup for 3 to 7 months each time.



Before and During 2009-2010 Interim Soil Removal Action



2005 before removal

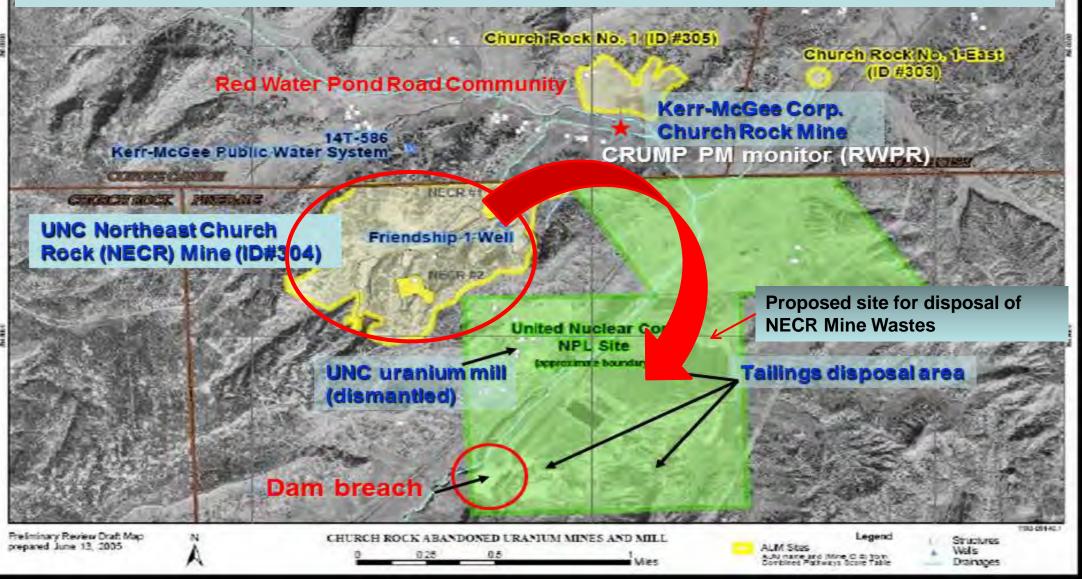
2009 during removal



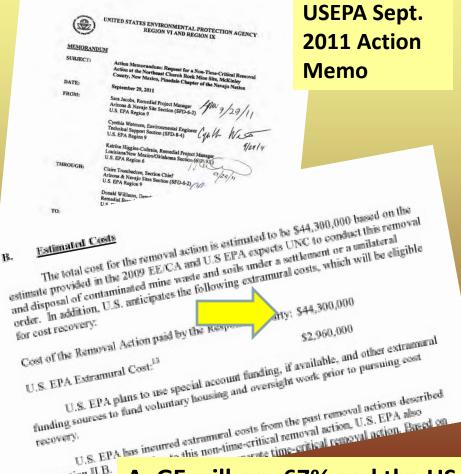
EPA's Clean-up Plan:

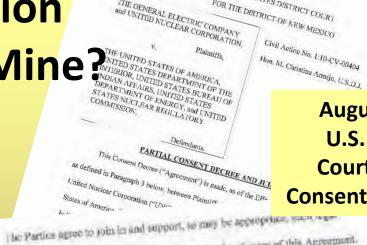
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Approved in 2011 and 2013, the plan would move the NECR mine wastes to the UNC uranium mill tailings disposal facility, a process that could take 7 years. The plan awaits approval by the Nuclear Regulatory Commission. No plans have been proposed for the Church Rock 1 (Kerr-McGee) mine wastes.



Q: Who pays for the \$44.3 million Q: while purper in the purper





THE GENERAL ELECTRIC COMPANY

UNITED STATES DISTRICT COURT

FOR THE DISTRICT OF NEW MEXICO

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August 2011 U.S. District **Court Partial Consent Decree**

proceedings as may be necessary in secure the Court's approval and unity of this Aproximant. Payment for Past Response Costs.

Within a reasonable time ofter the Effective Date of this Agreement the Lookel States thall pix 68, on behalf of GE and UNC, the sum of \$2,523,124.00. Payment shall be made by electronic lunds marster in the account designated by GF. If such payment is not triade in full within 50 days after the effective Date of this Agreement, then the United States shall pay

appropriate, subject to Paragraph 11 of this Agreement. For purposes of this Paragraph, the United States' allocated share shall be 33 percent, except that if any department, agency, or instrumentality of the United States is responsible for long-term operation and maintenance of the Response A the United States' allocated at

in section II.B. decided to addr

A: GE will pay 67% and the US (i.e., taxpayers) will pay 33%. GE will save about \$15 million by suing the U.S. and the U.S. agreeing to settle.

RWPRCA need funds and volunteer labor to finish our community's ceremonial *hooghan*

- Dozens of meetings held on clean up of mines, but no place to meet in community
- Began building 32-ft diameter hogan in Fall 2014 (top photo)
- Will be used for ceremonies, meetings
- Raffling quilt (bottom photo) to raise funds for travel, finishing hogan





RWPRCA Needs

- New blood and urine sampling to update 2007 findings
 - Has uranium in our urine increased?
- Studies of other health problems affecting our community
 - Cancers
 - PTSD
 - Effects on our children, grandchildren
 - Livestock impacts
- Help moving to Standing Black Tree Mesa when NECR Mine wastes are moved to UNC tailings pile in 2018-2025
- \$25 million from Navajo Nation's Trust Fund Settlement (lower right)
- Finish cleanup of NECR and Church Rock I & IE mines as soon as possible



RWPRCA Executive Committee, from left, Annie Benally, Grace Henio (seated), Jacquelyn Bell Jefferson, Peterson Bell, Edith Hood



To heal ourselves, we need to heal the land



Contaminated soils removed, 2007

Hundreds of pinon and juniper removed, 2009

Community hogan under construction, 2016

"We have waited far longer than other communities in the U.S. for this poison to be cleaned up. When is it our turn to feel safe? How many more generations have to wait?"

— Edith Hood, Red Water Pond Road Community, testifying at hearing of Inter-American Commission on Human Rights on the "Right to Water", October 23, 2015

Acknowledgements

- Anna Rondon, Navajo Nation DOH
- McKinley Place Matters
- Multicultural Alliance for a Safe Environment
- Navajo Nation EPA
- Skeo Solutions-USEPA T.A.S.C.
- Southwest Research and Information Center
- UNM Center for Native Environmental Health Equity Research ("Native EH Equity")
- UNM Community Environmental Health Program
- USEPA Region 9
- Our many visitors from Japan, Mongolia, Russia and other places on Mother Earth



Above: Participants in 2013 Russian-Mongolian Cultural Exchange at Red Water Pond Road Community.

Below: Teracita Keyanna addresses Native EH Equity group, October 2016.



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Chapter, Navajo Nation. Photo by L. Blalock