



CONTACT INFORMATION

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12/02/85

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES FILE DATA

PRIMARY NAME: KANAB NORTH DEPOSIT

ALTERNATE NAMES:

MOHAVE COUNTY MILS NUMBER: 708

LOCATION: TOWNSHIP 38 N RANGE 3 W SECTION 17 QTR. SW

LATITUDE: LONGITUDE:

TOPO MAP NAME: JUMPUP CANYON - 15 MIN

CURRENT STATUS: UNKNOWN

COMMODITY:

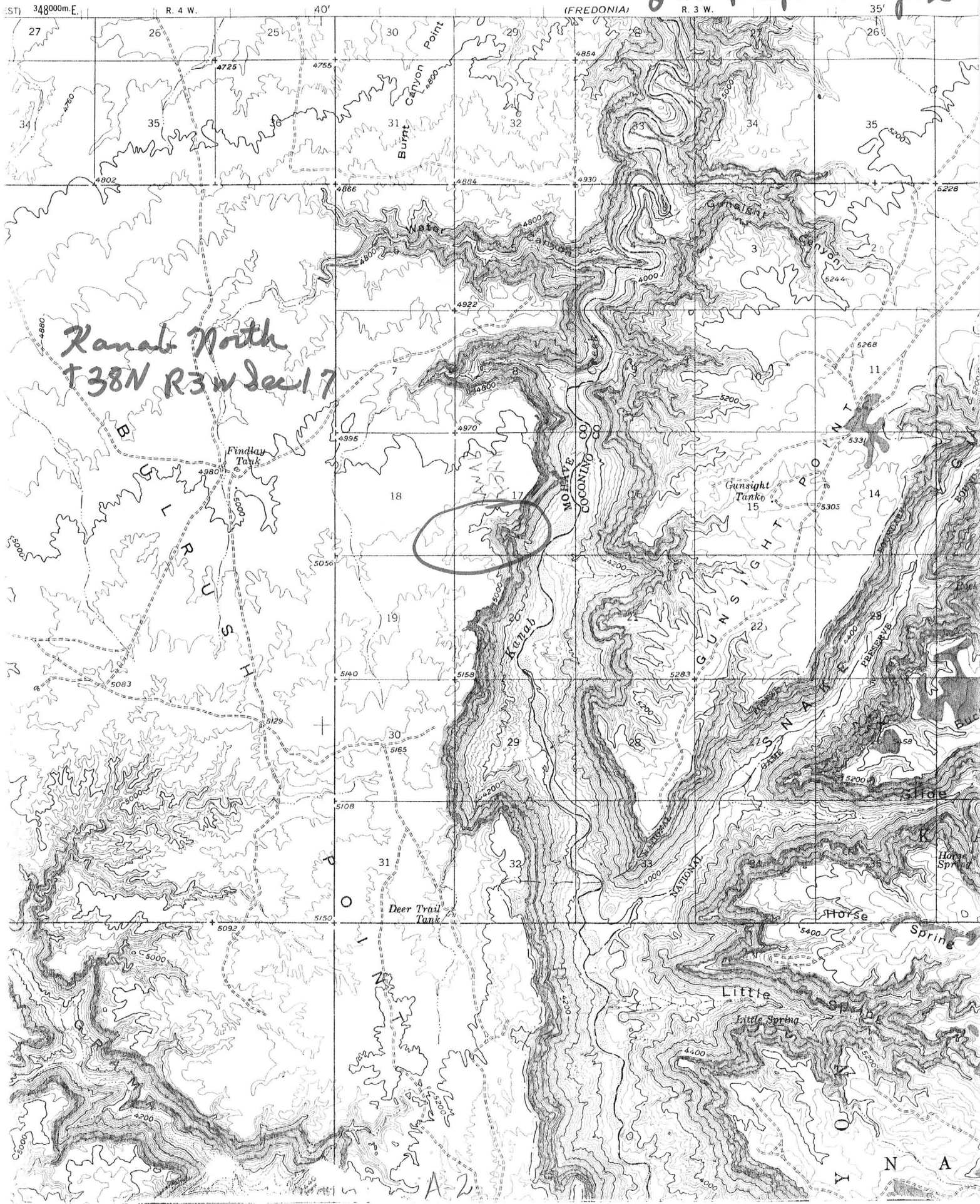
UNKNOWN

BIBLIOGRAPHY:

ADMMR KANAB NORTH FILE
ECONOMIC GEOLOGY, VOL. 80, 1985, PP 1722-1735
NUEXCO "THE ARIZONA STRIP" (ADMMR GEOL. FILE)
STRAHLER, A. "GEOL. GUIDE TO WESTERN PT OF
KAIBAB PLATEAU" (ADMMR GEOLOGY FILE)
MCDONNELL, J. "MIN. INVEST. OF HACK CANYON
WILDERNESS STUDY" (ADMMR GEOLOGY FILE)

OR

Jump up Canyon '15'



ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1992

Mohave County

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia, AZ 86022 - Phone 643-7321
Manager Mining Operations Roger Smith

Arizona One T36N R5W Sec. 22

Employees: 40 - Located 45 miles southwest of Fredonia - Underground uranium mine - Sinking shaft through March 1992.

Mine Superintendent John Stubblefield

Kanab North T38N R3W Sec. 17

Employees: 35 - Located 25 miles southwest of Fredonia - Underground uranium mine - Developed - On Standby.

Hermit T38N R4W Sec. 17

Located 30 miles southwest of Fredonia - Underground uranium mine - Developed - On standby.

Pine Nut T36N R4W Sec. 21

Located 45 miles southwest of Fredonia - Underground uranium mine - Developed - On standby.

Canyon T29N R3E Sec. 20

Located 45 miles north of Williams - Underground uranium mine - Development awaiting regulatory approval.

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1991

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia, AZ 86022 - Phone 643-7321

Manager Mining Operations Roger Smith

Kanab North T38N R3W Sec. 17 Employees: 35 - Located 25 miles southwest
of Fredonia - Underground uranium mine - Direct shipping ore - Mill
in Blanding, Utah - Currently stockpiling ore.

Mine Superintendent Dan Thebeau

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1990

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia, AZ 86022 - Phone 643-7321

Manager Mining Operations Roger Smith

Kanab North T38N R3W Sec. 17 Employees: 35 - Located 25 miles southwest
of Fredonia - Underground uranium mine - Direct shipping ore - Mill
in Blanding, Utah - Currently stockpiling ore.

Mine Superintendent Dan Thebeau

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1989

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia 86022 - Phone 643-7321

Manager Mining Operations Roger Smith

Kanab North

T38N R3W Sec. 17

Employees 35 - Located 25 miles southwest of Fredonia - Underground uranium
mine - Direct shipping ore - Mill in Blanding, Utah.

Mine Superintendent Dan Thebeau

ABSTRACTED FROM ADMMR ACTIVE MINES DIRECTORY, 1988

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia 86022 - Phone 643-7321

Manager Mining Operations Roger Smith

Pigeon T38N R2W Sec. 5
Employees 40 - Located 20 miles south of Fredonia - Underground uranium
mine - Direct shipping ore - Mill in Blanding, Utah.

Mine Superintendent Dave Lipkowitz

Kanab North T38N R3W Sec. 17
Employees 35 - Located 25 miles southwest of Fredonia - Underground uranium
mine - Direct shipping ore - Mill in Blanding, Utah.

Mine Superintendent Dan Thebeau

Hermit T38N R4W Sec. 17
Employees 32 - Located 30 miles southwest of Fredonia - Underground uranium
mine - Under full time development - Production anticipated 1990.

Mine Superintendent John Stubblefield

Pine Nut T36N R4W Sec. 21
Located 45 miles SW of Fredonia - Underground uranium mine - Developed - On
Stand by.

Canyon T29N R3E Sec. 20
Located 45 miles north of Williams - Underground uranium mine - Under full
time development.

<!--StartFragment-->SUMMARY OF MINERALIZED MATERIAL

The following is a summary of the Registrant's estimates of the uranium and vanadium contained in mineral deposits on the Registrant's various properties, as of March 31, 2000:

Conventional Mines

<Table>

<Caption>

	Project	Mineralized Tons	%U(3)O(8)	%V(2
	-----	-----	-----	-----
<S>	<C>	<C>	<C>	
	Arizona Strip Mines(1,4)			
	Arizona 1	80,000	0.652	
	Canyon	108,000	0.903	
	Pinenut	110,000	0.427	
		-----	-----	
	Total Arizona Strip	298,000	0.660	
	Colorado Plateau(2,4)	1,506,750	0.206	1
	Bullfrog Project(3,4)	1,937,000	0.334	
		-----	-----	

</Table>

- 1) The reported mineralized tons for the Arizona Strip mines include extraction dilution losses (which includes mining dilution and mining recovery losses).
- 2) The reported mineralized tons for the Colorado Plateau mines include extraction dilution losses (which includes mining dilution and mining recovery losses).
- 3) The reported mineralized tons for the Bullfrog Project do not include extraction dilution losses.
- 4) Processing of uranium bearing material in a uranium/vanadium recovery mill normally results in recovery of approximately 94% to 98% of the contained uranium and 70% to 80% of the contained vanadium. Milling Recovery losses are not included in the foregoing table.

<!--EndFragment-->

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VIS5.2

ARIZONA DEPARTMENT OF MINES AND MINERAL RESOURCES

VERBAL INFORMATION SUMMARY

1. Information from: Pam Shouldes
Company: Energy Fuel Nuclear
Address: Colorado
2. Mine: Kanab North
3. ADMMR Mine File: Kanab North
4. County: Mohave MILS Number: 708
5. Summary of information received, comments, etc.:

Pam Shouldes reported that Energy Fuels Nuclear's 1991 uranium production from Arizona was all from the Kanab North mine and only for the period January through March 1991. The mine produced 24,984 tons of ore which contained 234,961 pounds of U_3O_8 . The average grade was 0.470 % U_3O_8 .

Date: August 3, 1992

Engineer: Leroy Kissinger

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KANAB NORTH

MOHAVE COUNTY

NJN WR 1/28/83: Walter Enderlin with Batella NW Labs, Washington, reported Energy Fuels Company is accepting bids for a shaft sinking project for their Kanab North deposit in Kanab Creek, Mohave/Cocnino County line. Apparently this will be a hurried project as they have an agreement with the BLM to come in, mine the deposit and leave by the end of 1986.

NJN WR 5/13/83: It was reported that the location of Energy Fuels, Kanab North Deposit, is T38N R3W Sec 17 SW $\frac{1}{4}$. This is on the west rim of Kanab Canyon, Mohave County, as shown on the Jumpup Canyon 15' quadrangle map.

NJN WR 8/26/83: Lisa Bunting with Energy Fuels reported that their new Arizona address is P O Box 36, Fredonia, Az. 86022, Exploration Division, phone (602) 643-5836 and Mines Div. phone (602) 643-5823. Kanab North, Mohave County is awaiting development while the environmental impact statement is being approved.



KANAB NORTH (P)

12 MB

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

EVAN MECHAM, GOVERNOR
GERALD H. TELETZKE, PH.D., DIRECTOR

JOINT NOTICE OF PROPOSED ACTION

by the

U. S. Environmental Protection Agency
Region 9 (W-5-1)
215 Fremont Street
San Francisco, CA 94105

Telephone: (415) 974-8105

On Application for National Pollutant
Discharge Elimination System (NPDES)
Permit to Discharge Pollutants to
Waters of the United States

State of Arizona
Arizona Department of Environmental Quality
2005 North Central Avenue-Room 202
Phoenix, AZ 85004

Telephone: (602) 257-2270

On Application for Certification
for Compliance with Applicable
Effluent Limitations and
Appropriate Requirements of the
State of Arizona

The Environmental Protection Agency (EPA), Region 9, San Francisco, California, and the Arizona Department of Environmental Quality (ADEQ) are jointly issuing the following notice of proposed action under the Clean Water Act (CWA).

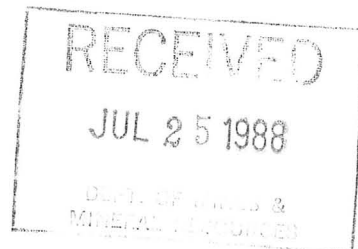
The Environmental Protection Agency, Region 9, San Francisco, California, has received a complete application for a National Pollutant Discharge Elimination System (NPDES) permit and has prepared tentative determinations regarding the permit.

On the basis of preliminary review of the requirements of the Clean Water Act, as amended, the implementing regulations, the Regional Administrator, Region 9 Environmental Protection Agency, proposes to issue an NPDES permit to discharge to the following applicant, subject to certain effluent limitations and special conditions.

Public Notice No. 20-88-AZ

July 25, 1988

Energy Fuels Nuclear, Inc.
1200 17th Street, Suite 2500
Denver, Colorado 80202
NPDES Permit No. AZ0022322



The Department of Environmental Quality is An Equal Opportunity Affirmative Action Employer

The applicant operates the Kanab North Mine located in Township 38 N, Range 3 W in Mohave County. Their discharge consists of mine drainage water. Their discharge, at latitude 36° 41' 17" N, longitude 112° 34' 35" W, is to an unnamed wash tributary to Kanab Creek in the Colorado River Basin. Kanab Creek has protected uses of Aquatic and Wildlife, Incidental Human Contact and Agriculture Livestock Watering. The proposed permit contains effluent limits for Total Suspended Solids, Chemical Oxygen Demand, Arsenic, Cadmium, Chromium, Copper, Lead, Cyanide, Phenolics, Sulfides, Zinc, Uranium, Radium 226 and 228, Gross alpha and beta particle activity and pH. The proposed permit will expire five years after it becomes effective.

The State of Arizona is considering a request to certify the discharge described above, pursuant to Section 401 of the Clean Water Act. The certification will set forth any limitations and monitoring requirements necessary to assure compliance with water quality standards under Section 303, areawide waste treatment management plans under Section 208(e), effluent limitations under Sections 301 and 302, standards of performance under Section 306, or prohibitions, effluent standards or pretreatment standards under Section 307 of the CWA, and any other appropriate requirement of State law.

The State may certify a draft permit and specify conditions which are more stringent than those in the original draft permit, where the State finds such conditions necessary to meet the requirements of the CWA. For each more stringent condition, the certifying State agency shall cite the CWA or State law references upon which that condition is based. Review of appeals of limitations and conditions attributable to State certification shall be made through the applicable procedures of the State.

The Administrative Record, which includes the application, draft permit conditions and other relevant documents, is available for public review Monday through Friday from 9:00 a.m. to 4:00 p.m. at the EPA address below. A copy of the draft permit and other pertinent documents may be obtained by calling or writing to the addresses below.

Persons wishing to comment upon or object to the proposed determinations or request a public hearing pursuant to 40 CFR 124.12 should submit their comments or request in writing within thirty (30) days from the date of this notice, either in person or by mail to:

U. S. Environmental Protection Agency
Region 9 (W-5-1)
Attn: Jon Hangartner
215 Fremont Street
San Francisco, CA 94105

State of Arizona
Arizona Department of Environmental Quality
Attn: Wayne H. Palsma - Room 202
2005 North Central Avenue
Phoenix, AZ 85004

Telephone: (415) 974-8284

Telephone: (602) 257-2270

All comments or objections submitted within thirty (30) days from the date of this notice will be considered in the formulation of the final determinations regarding the application. If the response to this notice indicates a significant degree of public desire for a public hearing, the Regional Administrator shall hold one in accordance with 40 CFR 124.12. A public notice of such hearing will be issued at least thirty (30) days prior to the hearing. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

The permit will become effective thirty-three (33) days following the date of mailing by the EPA of the final permit. If no comments request a change in the draft permit, the permit will become effective three (3) days from the date of mailing.

A request for an evidentiary hearing may be submitted to the Permits Record Coordinator, (W-5-1), within thirty-three (33) days following the mailing of the final determination, in accordance with 40 CFR 124.74. If granted, applicable provisions of the permit will be stayed pending the hearing.

Please bring the foregoing notice to the attention of all persons you know would be interested in this matter.

ABSTRACTED FROM ADMMR 1986
DIRECTORY OF ACTIVE MINES
April 24, 1987

ENERGY FUELS NUCLEAR INC.

P.O. Box 36, Fredonia 86022 - Phone 643-7321

Manager Mining Operations Roger Smith

Flagstaff Office - 500 Thompson, Flagstaff - Phone 774-0609

Area Manager Wayne Seick

Kanab North

Located 25 miles southwest of Fredonia - Underground uranium mine - Under full time development - Production scheduled for early 1988.



KANAB NORTH (C)
(START FILE)

STATE MINE INSPECTOR

Office of State Mine Inspector

705 West Wing, Capitol Building

Phoenix, Arizona 85007

602-255-5971

NOV 13 1984

NOTICE TO ARIZONA STATE MINE INSPECTOR

In compliance with Arizona Revised Statute Section 27-303*, we are submitting this written notice to the Arizona State Mine Inspector (705 West Wing, Capitol Building, Phoenix, Arizona 85007) of our intent to start/stop (please circle one) a mining operation.

COMPANY NAME Energy Fuel Nuclear

CHIEF OFFICER Muriel Vincello V.P.; R.B. Smith Manager

COMPANY ADDRESS P.O. Box 36, Fredonia, AZ 86022

COMPANY TELEPHONE NUMBER 602-643 7321

MINE OR PLANT NAME Kanab North

MINE OR PLANT LOCATION (including county and nearest town, as well as directions for locating by vehicle)

South from St. Highway 389 on Mt Tumbul Road, & thence east for 6 miles on existing dirt road

TYPE OF OPERATION _____ PRINCIPAL PRODUCT Uranium

STARTING DATE 10 or 84 CLOSING DATE _____

DURATION OF OPERATION 4-6 year

PERSON SENDING THIS NOTICE Richard D. Husted

TITLE OF PERSON SENDING THIS NOTICE Safety / Radio Officer

DATE NOTICE SENT TO STATE MINE INSPECTOR _____

*A.R.S. Section 27-303 NOTIFICATION TO INSPECTOR OF BEGINNING OR SUSPENDING OPERATIONS: When mining operations are commenced in any mine or when operations therein are permanently suspended, the operator shall give written notice to the inspector at his office prior to commencement or suspension of operations.

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Revised 7/84



BRUCE BABBITT, Governor
LLOYD F. NOVICK, M.D., M.P.H., Director

ARIZONA DEPARTMENT OF HEALTH SERVICES

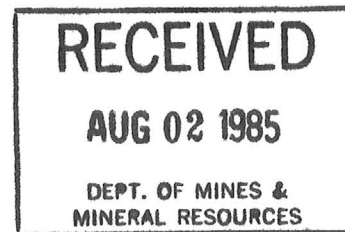
NOTICE OF PROPOSED ACTION

by the

State of Arizona
Department of Health Services
Division of Environmental Health Services
2005 North Central Avenue
Phoenix, Arizona 85004

(602) 257-2270

On Application for a Permit under the
Water Pollution Control Permit System
of the State of Arizona, Requirements
for Facilities Affecting Groundwater
Quality



The Arizona Department of Health Services (Department) is issuing the following notice of proposed action under the Arizona Compilation of Rules and Regulations (A.C.R.R.) Title 9, Chapter 20, Article 2.

The Department has received a complete application for a Groundwater Quality Protection Permit and has prepared tentative determinations regarding the permit.

On the basis of preliminary review of the requirements of A.C.R.R. Title 9, Chapter 20, Article 2 regulations, the Director proposes to issue a Groundwater Quality Protection permit to the following applicant subject to certain special and general conditions.

Public Notice No. 41-85-AZGW

August 5, 1985

Kanab North Mine
Energy Fuels Nuclear, Incorporated
P. O. Box 36
Fredonia, Arizona 86022
Township 38 North, Range 3 West, Section 17
Groundwater Quality Protection Permit No. G-0007-08

The applicant will operate an underground uranium mine located near Fredonia, Arizona. The facility will dispose of approximately 5 gpm of mine water that is intermittently pumped to a clay lined pond. The pond will be approximately 300 feet in length by 100 feet in width. The depth to groundwater is approximately 1500 feet.

The Administrative Record, which includes the application, draft permit conditions and other relevant documents, is available for public review Monday

The Department of Health Services is An Equal Opportunity Affirmative Action Employer.

through Friday from 7:30 a.m. to 4:30 p.m. at the address below. A copy of the draft permit may be obtained by calling or writing to the address below.

Persons wishing to comment upon or object to the proposed determinations or request a public hearing pursuant to A.C.R.R. Title 9-20-223.C should submit their comments or request in writing within thirty (30) days from the date of this notice, either in person or by mail to:

State of Arizona
Department of Health Services
Attn: OWWQM - Water Permits Unit
2005 North Central Avenue
Phoenix, Arizona 85004

Telephone: (602) 257-2270

All comments or objections submitted within thirty (30) days from the date of this notice will be considered in the formulation of the final determinations regarding the application. If the response to this notice indicates a significant degree of public desire for a public hearing, the Director shall hold one in accordance with A.C.R.R. Title 9-20-223.C. A public notice of such hearing will be issued at least thirty (30) days prior to the hearing. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

The Director will finalize a determination on the permit within thirty (30) days following the last date on which comments may be submitted.

Please bring the foregoing notice to the attention of all persons you know would be interested in this matter.