

US EPA ARCHIVE DOCUMENT

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

ATOMIC SAFETY AND LICENSING BOARD PANEL

Before Administrative Judge  
Peter B. Bloch, Presiding Officer

_____ )	
In the Matter of )	
)	
HYDRO RESOURCES, INC. )	Docket No. 40-8968-ML
2929 Coors Road, Suite 101 )	
Albuquerque, NM 87120 )	ASLBP No. 95-706-01-ML
)	
_____ )	

WRITTEN TESTIMONY OF MAVIS SMITH

On behalf of Eastern Navajo Dine Against Uranium Mining ("ENDAUM") and Southwest Research and Information Center ("SRIC"), Mavis Smith submits the following testimony regarding the amended application of Hydro Resources, Inc. ("HRI") for a source materials license to conduct in situ leach ("ISL") uranium mining at three proposed sites in McKinley County, New Mexico, referred to as the "Crownpoint Uranium Project."

**Q.1. Please state your name.**

**A.1.** My name is Mavis Smith.

**Q.2. Where do you live?**

**A.2.** I live on the Navajo reservation in Brimhall, New Mexico,



**Q.3. What is your occupation?**

**A.3.** I am presently employed as the Office Manager for ENDAUM. I started working for ENDAUM in September, 1998. Before that, I was a full-time student at the University of New Mexico in Albuquerque, New Mexico. I graduated from the University of New Mexico on May 21, 1998. I have a Bachelor of Arts Degree in Psychology with a Minor in Human Services.

From May 29, 1998 to August 8, 1998, I served as an intern with the U.S. Department of Education, Office of Educational Research and Improvement in Washington, D.C.

**Q.4. Are you a member of the Navajo Tribe?**

**A.4.** Yes.

**Q.5. Do you speak the Navajo language?**

**A.5.** Yes. I am bilingual in Navajo and English.

**Q.6. Are you familiar with the Crownpoint Uranium Mining Project proposed by HRI?**

**A.6.** Yes. I have reviewed the Final Environmental Impact Statement to Construct and Operate the Crownpoint Uranium Solution Mining Project, Crownpoint, New Mexico ("FEIS") (February, 1997) as well as several other documents in the Hearing Record.

**Q.7. Have you performed work related to this proceeding on behalf of ENDAUM?**

**A.7. Yes.**

**Q.8. Please describe the work you have performed.**

**A.8. As the staff person for ENDAUM, I conducted a land use survey in the Church Rock area, under the supervision of Dr. Robert Bullard.**

**Q.9. What was the purpose of the land use survey?**

**A.9. The purpose of the land use survey was to find out how people use the land in the Church Rock area near HRI's proposed uranium mining activities.**

**Q.10. How did you develop the land use survey?**

**A.10. Under the direction of Dr. Robert Bullard, I helped develop a survey which asked people living in the Church Rock area how they use their land, how many animals they own and graze, how and where they obtain water and for what uses, and how long they have lived at their home sites.**

**Q.11. How did you determine which people to interview?**

**A.11. Dr. Bullard determined that the boundaries of the survey area should include the northern portion of Township 16 North, Range 16 West, Section 2; Township 17 North, Range 16 West, Sections 35-36; Township 16 North, Range 16 West, Section 31; Township 15 North, Range 15 West, Sections 1-5; or in other words, an area within a 3 mile radius of the proposed mining project in Church Rock, including the project area itself. Then, based on the inspection of various maps and on my previous**

knowledge of the Church Rock area, I traveled in my own vehicle to all of the homes within those boundaries.

**Q.12. When did you conduct this land use survey?**

**A.12.** I conducted interviews of the Church Rock area residents within the survey area on four days: January 20, January 30, January 31, and February 6, 1999.

**Q.13. What survey methods did use use?**

**A.13.** Dr. Bullard instructed me to conduct the survey as systematically as possible by asking the same questions of everyone, as they appear on the form, and by using the same Navajo language terms whenever I translated the survey into Navajo for Navajo-speaking residents. Generally, I recorded responses on the survey forms, but a few residents filled out their own forms. In recording responses, I sought to be as accurate as possible.

**Q.14. How many surveys did you complete?**

**A.14.** 45.

**Q.15. Are the land use surveys in your possession?**

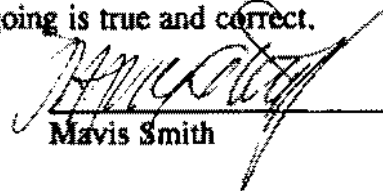
**A.15.** Yes. The completed survey forms are attached to this testimony as Exhibit A.

**Q.16. Does this conclude your testimony?**

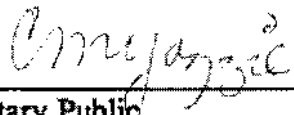
**A.16.** Yes.

**AFFIRMATION**

I declare under penalty of perjury on this 9<sup>th</sup> day of February, 1999, at Albuquerque, New Mexico, that the foregoing is true and correct.

  
\_\_\_\_\_  
Mavis Smith

Sworn and subscribed before me, the undersigned, a Notary Public in and for the State of New Mexico, on this 9<sup>th</sup> day of February, 1999. My Commission expires on 10/25/2001.

  
\_\_\_\_\_  
Notary Public

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: M. Smith

Name of Person Interviewed: Jimmy H. Arviso

Mailing Address:  
P.O. Box 808 Church Rock, NM 87311  
P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H:        W:        cell:         
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock Mine Road, Rural # ~~60A~~ 60A

(map of location attached? Yes No )  
How long have you lived at this location? All my life - over 60 years  
How long has this land been in your family? All my life - many generations  
How many people are in your family?  1 2 3 4 5 6 more?       

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing?         
If yes, how many head of livestock do you graze?  
# sheep 70; # cattle       ; # horses       ; # other dogs 4  
plus goats

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? squash, melons, corn, watermelon, beans  
If yes, how many acres are in crops?       

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water       

Do you haul water for any purpose?  Yes No  
Where do you get this water? Red Rock State Park

How far away is this? 6 or 7 miles

How often do you haul water? Everyday

How much (in gallons) do you haul at any one time? 50 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: good, water is good for cooking



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: MARIE SMITH

Name of Person Interviewed: Johnny H. ARVISO

Mailing Address: Box 265 Church Rock, NM 87311  
P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock Rd, Rural 60B

(map of location attached? Yes No )  
How long have you lived at this location? All my life - over 60 years  
How long has this land been in your family? All my life - many generations  
How many people are in your family? 1 2  3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 10; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? Vegetables; squash, corn, watermelon, beans  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Red Rock State, Rehoboth and Gallup; we pay for the water.  
How far away is this? 12 miles  
How often do you haul water? Everyday  
How much (in gallons) do you haul at any one time? more 30 gallons  
What do you use this water for? drinking, cooking, bathing, irrigation, livestock  
Describe the quality of this water: Very good; clean

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer Jan 30, 1999 M Smith

Name of Person Interviewed: Tom Arviso and Janice Y. Arviso

Mailing Address: Box 56 Church Rock, New Mexico

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley - House # 151B

How long have you lived at this location? (map of location attached? Yes No ) Since Birth, 62 years ago (Tom Arviso) since 1954 (Janice Y. Arviso)  
How long has this land been in your family? many generations, 5 generations  
How many people are in your family? 1 2 3 4 5 6 more? 10

Do you use the land for grazing?  Yes No 1 mile square  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 40; # cattle 0; # horses 0; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? corn, squash, beans  
If yes, how many acres are in crops? 5 acres

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes No  
Cooking? Yes No  
Bathing? Yes No  
Irrigation? Yes No  
Livestock? Yes No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes No  
Where do you get this water? Red Rock Church Rock, state park

How far away is this? 7 one way 14 round trip  
How often do you haul water? 2 x a week (pay for water)  
How much (in gallons) do you haul at any one time? 50 (themselves) 40 gallons (livestock)  
What do you use this water for? drinking, cooking, bathing, irrigation, livestock  
Describe the quality of this water: water is okay  
Drink bottle water for sale @ grocery store.

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer: Jan. 30, 1999 MAVIS

Name of Person Interviewed: Sylvia Arviso

Mailing Address: Box 794 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: --- W: --- cell: ---  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley - House # 148C

(map of location attached? Yes No )

How long have you lived at this location? 2 long time 56 years since birth to today

How long has this land been in your family? many generations, had not seen some from somewhere else

How many people are in your family? 1 2 3  4 5 6 more? grandchildren 6

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 1 mile square  
If yes, how many head of livestock do you graze?  
# sheep 21; # cattle 0; # horses 1; # other goats

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? 5 acres corn, squash, corn  
If yes, how many acres are in crops? 5 acres

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water

Do you haul water for any purpose? Yes  No   
Where do you get this water? Church Rock, Rehoboth

How far away is this? 8 miles (one way) 16 round trip

How often do you haul water? every two weeks

How much (in gallons) do you haul at any one time? (3) 55 gallons

What do you use this water for? drinking, cooking, bathing, livestock

Describe the quality of this water: not very good, but no other place to get it. Rehoboth and Church Rock water is sometimes very dark;

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: Mavis Smith

Name of Person Interviewed: William Arviso

Mailing Address: Box 808, Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock Rd, Rural 60C

(map of location attached? Yes  No )  
How long have you lived at this location? All my life - over 60 years  
How long has this land been in your family? All his life - many generations  
How many people are in your family? 1 2 3 4 5 6 more?

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 5; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_  
+ goats

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose? Yes  No   
Where do you get this water? Red Rock State Park, Rehoboth and Gallup, I am a disable veteran  
How far away is this? along ways, too far, about 13 miles  
How often do you haul water? everyday, it's very hard  
How much (in gallons) do you haul at any one time? about 20 gallons  
What do you use this water for? Everything; drinking, cooking, washing, etc  
Describe the quality of this water: very good.

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer: Jan. 30, 1999 Mours

Name of Person Interviewed: Lorraine Begay + Harvey Begay

Mailing Address: 572 Church Rock, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Taberacle Rd, House 120A

(map of location attached? Yes No )  
How long have you lived at this location? since birth, 58 yrs  
How long has this land been in your family? for generations, on my father side  
How many people are in your family? 1 2 3 4 5 6 more? 14

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing? about 4  
If yes, how many head of livestock do you graze?  
# sheep 17; # cattle 11; # horses 2; # other dog  
# goat

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? squash, corn, beans  
If yes, how many acres are in crops? 4

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes No  
Cooking? Yes No  
Bathing? Yes No  
Irrigation? Yes No  
Livestock? Yes No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes No  
Where do you get this water? Church Rock, Kehoboth, (we pay for the water)

How far away is this? 22 miles

How often do you haul water? two times a week

How much (in gallons) do you haul at any one time? 55 gallons

What do you use this water for? drinking, cooking, bathing, livestock

Describe the quality of this water: good, clean water

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer: Jaw. 30, 1999 Morris Smith

Name of Person Interviewed: Nellie Begay

Mailing Address: P.O. 535 Church Rock, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Red Top Road 74A-B

(map of location attached? Yes No )

How long have you lived at this location? All my life - 72

How long has this land been in your family? past on from generation

How many people are in your family? 1 2  3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing? 560  
If yes, how many head of livestock do you graze?  
# sheep 45; # cattle 14; # horses 1; # other \_\_\_\_\_  
goat 65

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? 3 acres corn, squash, watermelon, cantelops  
If yes, how many acres are in crops? 3 acres

Do you have running water in your home?  Yes No  
What do you use this water for? Drinking?  Yes No  
Cooking?  Yes No  
Bathing?  Yes No  
Irrigation?  Yes No  
Livestock?  Yes No

Describe the quality of this water good water, water is check regularly by NTUA

Do you haul water for any purpose?  Yes No  
Where do you get this water? Tomariano Lake

How far away is this? Round trip; 30 miles

How often do you haul water? often

How much (in gallons) do you haul at any one time? 55 gallon x 3

What do you use this water for? Cattle

Describe the quality of this water: good water for livestock

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Split open ground  
w/ some farming in  
ground

Date of Survey: 1/31/99 Interviewer Mavis Smith

Name of Person Interviewed: Hazel Curley & Cleo Bus Curley

Mailing Address: P/O Box 631 Church Rock NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: yes  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Bedenti Tract RD House # 1530

(map of location attached? Yes  No )

How long have you lived at this location? like or 37 yrs

How long has this land been in your family? like

How many people are in your family? 1  2  3  4  5  6 more?

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other pig

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? corn squash tomatoes radishes  
If yes, how many acres are in crops? 1/2 acres

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water: hardening water

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Red Rock State Park or Burbary  
Lumber Company

How far away is this? Gallup & Church Rock

How often do you haul water? every week

How much (in gallons) do you haul at any one time? unknown

What do you use this water for? drinking cooking livestock bathing

Describe the quality of this water: Good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: Mans Smith

Name of Person Interviewed: Colvin Gray

Mailing Address:  
Church Rock 87311 P.O. Box 924  
P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: 463-9543 cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): old church rock mine Road

(map of location attached? Yes No )

How long have you lived at this location? Life  
How long has this land been in your family? Life  
How many people are in your family? 1 2 3 4  5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 40  
If yes, how many head of livestock do you graze?  
# sheep 37 ; # cattle 18 ; # horses 6 ; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? corn  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes  No   
Cooking? ~~Yes~~  No   
Bathing? ~~Yes~~  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Church Rock

How far away is this? 7 miles

How often do you haul water? once in while

How much (in gallons) do you haul at any one time? 15 gallons

What do you use this water for? Drinking water

Describe the quality of this water: ~~clear~~ clear

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: Mavis Smith

Name of Person Interviewed: Jerald R. Hood

Mailing Address: P.O. Box 804 Church Rock New Mexico 87131

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No  (HRL) Can Provide the (Phone)  
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home?  Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): leave Right across the Mine Site along Highway 566. On Old Church Rock Mine Rd.

(map of location attached? Yes No )

How long have you lived at this location? many yrs. life time

How long has this land been in your family? life time

How many people are in your family? 1 2 3 4 5  6 more? Big Family

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 40 acres  
If yes, how many head of livestock do you graze?  
# sheep 14; # cattle 19; # horses 8; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? Peas and Corn Season  
If yes, how many acres are in crops? 50 w. 200' long

Do you have running water in your home?  Yes  No  
What do you use this water for?  
Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water: This water is good water.

Do you haul water for any purpose?  Yes  No  
Where do you get this water? across from the mine site for Hwy 566  
Ponds and Horses

How far away is this? 1/2 mile south of mine site along 566

How often do you haul water? every two days summer all the time

How much (in gallons) do you haul at any one time? 1500 gallons

What do you use this water for? livestock and Ponds and Horses

Describe the quality of this water: Right Now the water is safe and clear.

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: Mona Smith

Name of Person Interviewed: Glen Hood

Mailing Address:  
P.O. Box 504 Churchrock NM 83311  
P.O. Box or Street Address

Do you have a telephone in your home? Yes No    
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 3 mile northeast of Springhead

(map of location attached? Yes No )  
How long have you lived at this location? lifetime 39 years  
How long has this land been in your family? lifetime  
How many people are in your family? 1 2 3 4 5 6 more?

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 30; # cattle 18; # horses 5; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? Corn  
If yes, how many acres are in crops? two acres

Do you have running water in your home? Yes No    
What do you use this water for? Haul water  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water Haul water from state park

Do you haul water for any purpose? Yes  No  livestock & drinking water  
Where do you get this water? state park or Collep

How far away is this? three to nine miles from home  
How often do you haul water? two to three west for drinking water every other day for livestock  
How much (in gallons) do you haul at any one time? 40 gallons for drinking water  
What do you use this water for? Drinking, cooking, Bathing, livestock  
Describe the quality of this water: water for cooking and bathing is good very water for livestock is kind of rusty (Glen)

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: Mauss Smith

Name of Person Interviewed: Beatrice Hood

Mailing Address:  
P.O. Box 642, Church Rock, NM 87311  
P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H:      W:      cell:       
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock Mine Rd. Rural # 102 B

(map of location attached? Yes No )

How long have you lived at this location? a long time, born, raised and still living here, 50 yr.  
How long has this land been in your family? my grand parents lived here, over 100 yrs  
How many people are in your family? 1 2  3 4 5 6 more?     

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing?       
If yes, how many head of livestock do you graze?  
# sheep     ; # cattle 23; # horses     ; # other     

*During the UMC mining, we lost our sheep and horses. They were killed by trucks caused from the UMC mining.*

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? Corn, squash,  
If yes, how many acres are in crops? 1 acre

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes No  
Cooking? Yes No  
Bathing? Yes No  
Irrigation? Yes No  
Livestock? Yes No

Describe the quality of this water     

Do you haul water for any purpose?  Yes No  
Where do you get this water? Gallup

How far away is this? 18 miles round trip

How often do you haul water? 2x a week

How much (in gallons) do you haul at any one time? 1,000 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer Jaw 30, 1999 Onimitt

Name of Person Interviewed: Holland, Julia

Mailing Address: P.O. Box 2654 Gallup 87305

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley Road - 136A

(map of location attached? Yes No )  
How long have you lived at this location? All my life, since birth  
How long has this land been in your family? for many generations  
How many people are in your family?  1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 3 acres  
If yes, how many head of livestock do you graze?  
# sheep 70; # cattle \_\_\_\_\_; # horses 1; # other \_\_\_\_\_  
goats

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? corn, squash, beans  
If yes, how many acres are in crops? 3 acres

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Church Rock, Red Rock State Park

How far away is this? \_\_\_\_\_

How often do you haul water? 2 x a week

How much (in gallons) do you haul at any one time? 55 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: good water

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 1-20-99 Interviewer: Wes Smith

Name of Person Interviewed: Marie A. Johnson

Mailing Address:  
Bx 241 Church Rock, NM 87311  
P.O. Box or Street Address

Do you have a telephone in your home? Yes No  
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: 979-3053  
If no, do you have access to a telephone near your home? Yes No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Old Church Rock mine Road, Rural # 60D

(map of location attached? Yes No )

How long have you lived at this location? all my life; 54 years  
How long has this land been in your family? Over a 100 years, passed on from generation to gen  
How many people are in your family? 1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 10; # cattle \_\_\_\_\_; # horses 1; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? corn, squash, beans, watermelon  
If yes, how many acres are in crops? 4 acres

Do you have running water in your home? Yes  No  
What do you use this water for? Drinking? Yes No  
Cooking? Yes No  
Bathing? Yes No  
Irrigation? Yes No  
Livestock? Yes No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes No  
Where do you get this water? Red Rock State Park, Rehobath  
Water

How far away is this? about 5 miles

How often do you haul water? Everyday

How much (in gallons) do you haul at any one time? 10 gallons

What do you use this water for? Drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: Red Rock State Park -> clear, good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 30, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Lester and Mary Jim

Mailing Address: Box 704 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipeline Rd house # 161

(map of location attached? Yes No )

How long have you lived at this location? 65 years

How long has this land been in your family? 3 generations

How many people are in your family? 1 2 3 4 5  6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 1 sq mile  
If yes, how many head of livestock do you graze?  
# sheep 6; # cattle 4; # horses 0; # other 0  
# goat 2

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? Corn, Pumpkin  
If yes, how many acres are in crops? less than an acre

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water good; from Pinedale

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Rehoboth, we pay for the water

How far away is this? 9 1/2 one way to Rehoboth

How often do you haul water? Every other day

How much (in gallons) do you haul at any one time? 25 gallons

What do you use this water for? livestock

Describe the quality of this water: good water; we pay 25¢ to 25¢ gallon

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 30, 99 Interviewer: Mavis Smith

Name of Person Interviewed: Linda Jim

Mailing Address: P.O. Bx 704 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H:                      W:                      Cell:                       
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipeline Road - House # 161 B

(map of location attached? Yes  No )

How long have you lived at this location? 2 years; always been around  
How long has this land been in your family? 2 generations  
How many people are in your family? 1 2 3  4 5 6 more?                     

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? 2 huge area  
If yes, how many head of livestock do you graze?  
# sheep ; # cattle ; # horses ; # other                     

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? Corn, pumpkin, squash  
If yes, how many acres are in crops? 1/2 acre

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water: Great; from pinedale

Do you haul water for any purpose? Yes  No   
Where do you get this water?                     

How far away is this?                     

How often do you haul water?                     

How much (in gallons) do you haul at any one time?                     

What do you use this water for?                     

Describe the quality of this water:                     

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 31, 1999 Interviewer: Mavis Smith

Name of Person Interviewed: Judy King

Mailing Address: P.O. Box 734 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: 707-215 cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipeline Rd House #

(map of location attached? Yes No )

How long have you lived at this location? 33 years

How long has this land been in your family? 2 generations

How many people are in your family? 1 2  3  4 5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? a huge area  
If yes, how many head of livestock do you graze?  
# sheep 5; # cattle 12; # horses 5; # other \_\_\_\_\_  
# goat 3;

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? corn, squash, beans  
If yes, how many acres are in crops? 1/2 acre

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water good

Do you haul water for any purpose? Yes  No   
Where do you get this water? \_\_\_\_\_

How far away is this? \_\_\_\_\_

How often do you haul water? \_\_\_\_\_

How much (in gallons) do you haul at any one time? \_\_\_\_\_

What do you use this water for? \_\_\_\_\_

Describe the quality of this water: \_\_\_\_\_

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer: Jan. 30, 1999 MANSUR

Name of Person Interviewed: Cherlyn Kasuse + Harrison Kasuse

Mailing Address: P.O. 273 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes No  
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: ✓  
If no, do you have access to a telephone near your home?  Yes No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Tabernacle Rd House 161

(map of location attached? Yes No )  
How long have you lived at this location? over a year  
How long has this land been in your family? 2 to 3 generations  
How many people are in your family? 1 2 3 4  5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? Corn, Squash  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home?  Yes No  
What do you use this water for? Drinking?  Yes No  
Cooking?  Yes No  
Bathing?  Yes No  
Irrigation? Yes  No  
Livestock? Yes  No

Describe the quality of this water Sometimes good and sometimes not, when they are putting in new pipes to other house

Do you haul water for any purpose? Yes  No  
Where do you get this water? \_\_\_\_\_

How far away is this? \_\_\_\_\_  
How often do you haul water? \_\_\_\_\_  
How much (in gallons) do you haul at any one time? \_\_\_\_\_  
What do you use this water for? \_\_\_\_\_  
Describe the quality of this water: \_\_\_\_\_

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY

JANUARY 1999

Date of Survey: January 31 Interviewer: MASS SMITH

Name of Person Interviewed: ANNIE B. LEWIS

Mailing Address: P.O. BOX 141 Churchrock NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home?  Yes No 963 5442 (Message)

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 4 miles from Old UNCL Mine

(map of location attached? Yes No )

How long have you lived at this location? 1 year

How long has this land been in your family? 3 generations

How many people are in your family? 1 2 3 4 5 6 more? 11

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? 100+  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle 4; # horses 10; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? beans - soybeans  
If yes, how many acres are in crops? 40

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No   
Describe the quality of this water okay

Do you haul water for any purpose? Yes  No   
Where do you get this water? Spring

How far away is this? 25 miles away

How often do you haul water? weekly

How much (in gallons) do you haul at any one time? 2000 gallons

What do you use this water for? Drinking water - livestock

Describe the quality of this water: very good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

making list

Date of Survey: 01-31-99 Interviewer Marie Smith

Name of Person Interviewed: Edison Leslie / Lena Leslie

Mailing Address: P.O. Bx <sup>2345</sup> ~~245~~ Gallup, NM 87305

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: 863-5268 cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Physical 159A pipe rd ?

(map of location attached? Yes No )

How long have you lived at this location? 4 years  
How long has this land been in your family? 4 generations  
How many people are in your family? 1 2  3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? Corn, pumpkin, beans, squash  
If yes, how many acres are in crops? 1/2 acre

Do you have running water in your home?  Yes  No  
What do you use this water for?  
Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Gallup

How far away is this? 25 miles (one way)

How often do you haul water? every day

How much (in gallons) do you haul at any one time? 7-10 gallons

What do you use this water for? drinking, cooking, bathing

Describe the quality of this water: good

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY

JANUARY 1999

Date of Survey: 19 January 99 Interviewer Mavis Smith

Name of Person Interviewed: Julie Lewis

Mailing Address: PO Box 414, Gallup NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No

If yes, your phone numbers are: H: \_\_\_\_\_ W: 863 3246 cell: \_\_\_\_\_

If no, do you have access to a telephone near your home?  Yes  No 863-5442 message

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 4 miles from OH UNC Road

(map of location attached? Yes No )

How long have you lived at this location? life

How long has this land been in your family? 3 generations

How many people are in your family? 1 2 3 4 5 6 more? 11

Do you use the land for grazing?  Yes  No

If yes, how many acres are used for grazing? 100+

If yes, how many head of livestock do you graze?

# sheep \_\_\_\_\_; # cattle 40; # horses 10; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes  No

If yes, what kind of crops do you grow? Corn

If yes, how many acres are in crops? 5

Do you have running water in your home?  Yes  No

What do you use this water for? Drinking?  Yes  No

Cooking?  Yes  No

Bathing?  Yes  No

Irrigation?  Yes  No

Livestock?  Yes  No

Describe the quality of this water Good

Do you haul water for any purpose?  Yes  No

Where do you get this water? Gallup NM

How far away is this? 25 miles approx

How often do you haul water? weekly

How much (in gallons) do you haul at any one time? 500 gallons

What do you use this water for? Drinking water + livestock

Describe the quality of this water: Very Good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan. 31, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Marian Livingston

Mailing Address: P.O. Box 412 Okinidi Park, TMM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Bevict Road, 2 1/2 mile NW Hwy 566 as highway  
(map of location attached? Yes  No )

How long have you lived at this location? more than 40 years

How long has this land been in your family? 4 generations

How many people are in your family? 1 2 3 4 5 6 more? 7

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 3 sections  
If yes, how many head of livestock do you graze?  
# sheep 15; # cattle —; # horses —; # other — *reduced due to water contamination zinc spill*  
*goat*

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? In the past not anymore because of dryness!  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  No   
Cooking?  No   
Bathing?  No   
Irrigation?  Yes  No   
Livestock?  Yes  No   
Describe the quality of this water Sometimes too much chlorine, it causes the pipes to rust.

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Rainwater, and

How far away is this? 100 feet

How often do you haul water? \_\_\_\_\_

How much (in gallons) do you haul at any one time? \_\_\_\_\_

What do you use this water for? Livestock

Describe the quality of this water: good for livestock

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-31-99 Interviewer: Mavis Smith

Name of Person Interviewed: Peter Earl / Rose Livingston

Mailing Address: Box 305 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: --- W: --- cell: YES  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Prucha Road - House #  
Regality - 82

(map of location attached? Yes  No   
How long have you lived at this location? 20 years (Earl) Rose Livingston (45 years)  
How long has this land been in your family? 4 generations  
How many people are in your family? 1  2  3  4  5  6 more? ---

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? ---  
If yes, how many head of livestock do you graze?  
# sheep ---; # cattle ---; # horses ---; # other ---

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? ---  
If yes, how many acres are in crops? ---

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water: Sometimes good, or rusty, too much chlorine

Do you haul water for any purpose? Yes  No   
Where do you get this water? ---

How far away is this? ---  
How often do you haul water? ---  
How much (in gallons) do you haul at any one time? ---  
What do you use this water for? ---  
Describe the quality of this water: ---

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer Mans Smith

Name of Person Interviewed: Alton Livingston

Mailing Address: P.O. Box 412 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Section 16 1/2  
Secret Road, Nose Rock  
(map of location attached? Yes  No )

How long have you lived at this location? All my life, 36 years

How long has this land been in your family? 3-4 generations

How many people are in your family?  1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 3 sections  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_  
cattle

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? Yes, in the past dryness  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water Sometimes, too much chlorine

Do you haul water for any purpose? Yes  No   
Where do you get this water? \_\_\_\_\_

How far away is this? \_\_\_\_\_

How often do you haul water? \_\_\_\_\_

How much (in gallons) do you haul at any one time? \_\_\_\_\_

What do you use this water for? \_\_\_\_\_

Describe the quality of this water: \_\_\_\_\_

US EPA ARCHIVE DOCUMENT

Age group  
education level

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-31-99 Interviewer: Mans Smith

Name of Person Interviewed: Gran Y. Livingston Laraine Livingston

Mailing Address: Bx 512 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_

If no, do you have access to a telephone near your home? Yes  No   
Village 25 488-6165

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Tropic Road - House 144

(map of location attached? Yes  No  )

How long have you lived at this location? Since birth 79 years

How long has this land been in your family? 1945 Section 24 (B80)

How many people are in your family? 1  2  3  4  5  6 more? 14

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? 148

If yes, how many head of livestock do you graze?  
# sheep 100; # cattle \_\_\_\_\_; # horses 3; # other \_\_\_\_\_  
= 100 is 45

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? potatoes, land is confarmistal

If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water Its hard water, only for washing purpose

Do you haul water for any purpose? Yes  No

Where do you get this water? deep well from Twin Lakes area

How far away is this? about 20 miles (one way)

How often do you haul water? once a month

How much (in gallons) do you haul at any one time? 50 millions 160 per month

What do you use this water for? drinking & cooking only

Describe the quality of this water: clear & pure, water at old good water

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer: Mavis Smith

Name of Person Interviewed: Bonnie Livingston / Annie Livingston

Mailing Address: Box 28 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No

If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_

If no, do you have access to a telephone near your home? Yes  No   
Pay phone

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Percenti Road - House # 144

(map of location attached? Yes  No 

How long have you lived at this location? Since birth, life time, 39 years

How long has this land been in your family? 3 generations, and plus

How many people are in your family? 1 2 3  4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No

If yes, how many acres are used for grazing? \_\_\_\_\_

If yes, how many head of livestock do you graze?

# sheep 18; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_  
1 goat 215 Care for other people's livestock

Do you use the land for growing crops? Yes  No

If yes, what kind of crops do you grow? Dropus, no water and land

If yes, how many acres are in crops? \_\_\_\_\_  
Contamination  
Concern for health.

Do you have running water in your home?  Yes  No

What do you use this water for? Drinking? Yes  No

Cooking? Yes  No

Bathing?  Yes  No

Irrigation? Yes  No

Livestock? Yes  No

Describe the quality of this water Smells like chlorine

Do you haul water for any purpose?  Yes  No

Where do you get this water? Twin lakes

How far away is this? About 20 miles

How often do you haul water? twice a month

How much (in gallons) do you haul at any one time? 80 gallons

What do you use this water for? drinking, cooking

Describe the quality of this water: good.

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-31-99 Interviewer: Mons Smith

Name of Person Interviewed: Wilson, Laurie, ~~Tenne~~ Livingston

Mailing Address: PO Box 463 Church Rock, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No   
unt - near home

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Trinity Road - 1/2 mile north  
1585

(map of location attached? Yes  No 

How long have you lived at this location? More than 50 years

How long has this land been in your family? many generations, 2 generations

How many people are in your family? 1  2  3  4  5  6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 60  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle 30; # horses \_\_\_\_\_; # other \_\_\_\_\_  
goat

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water good, but never drink water  
although, salty water

Do you haul water for any purpose? Yes  No   
Where do you get this water? Spring, Bakers, wells

How far away is this? 17 miles one way

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 10 gallons

What do you use this water for? drinking, cooking

Describe the quality of this water: cleaner, good, like river  
20th century

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan. 31, 1999 Interviewer Maris Smith

Name of Person Interviewed: Johanny Livingston

Mailing Address: P.O. Box 142 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Highway 566 House 709

(map of location attached? Yes No )  
How long have you lived at this location? about 15 years  
How long has this land been in your family? 3 generations  
How many people are in your family? 1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No  12 acres  
If yes, how many acres are used for grazing? 2 sections  
If yes, how many head of livestock do you graze?  
# sheep 10; # cattle 4; # horses 4; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? season corn, beans,  
If yes, how many acres are in crops? 1 acre

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose? Yes  No   
Where do you get this water? Gallup, Crowpoint

How far away is this? Crowpoint - about 47 miles <sup>way</sup> Gallup 15 miles <sup>way</sup>

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 600 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: clean water  
bottled water for drinking + cooking

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: January 30, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Gloria Livingston

Mailing Address: Box 986 Church Rd, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Forest - no house #

(map of location attached? Yes No )  
How long have you lived at this location? Since birth, 42 years  
How long has this land been in your family? 3 generations  
How many people are in your family? 1  2  3  4  5  6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 5 acres  
If yes, how many head of livestock do you graze?  
# sheep 5; # cattle —; # horses —; # other —  
# goat

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? corn, squash, beans  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water: ~~good~~

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Gallup

How far away is this? 9 1/2 one way

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 55 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: good + clean water, not salty

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: January 30, 1999 Interviewer: Yvonne Smith

Name of Person Interviewed: Dorothy Livingston

Mailing Address: Bx 142 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Breath Rd - House 54D

How long have you lived at this location? (map of location attached? Yes No ) Since birth, 60 years  
How long has this land been in your family? 3 generations  
How many people are in your family? I 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 12; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? corn squash  
If yes, how many acres are in crops? 1 acre

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Gallup

How far away is this? 9 1/2 mile (one way)

How often do you haul water? 1 x a week

How much (in gallons) do you haul at any one time? 250 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: good water from Gallup

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 30, 1999 Interviewer: Mavis Smith

Name of Person Interviewed: Marilyn Livingston

Mailing Address: P.O. Box 142 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pranti Rd - House 54B

(map of location attached? Yes No )  
How long have you lived at this location? a long time since birth 61 years  
How long has this land been in your family? many years 3 generations  
How many people are in your family? 1 2 3  4 5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 12; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_  
# goat 1

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? Corn, squash  
If yes, how many acres are in crops? 1 acre

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes No  
Cooking? Yes No  
Bathing? Yes No  
Irrigation? Yes No  
Livestock? Yes No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose? Yes  No   
Where do you get this water? Gallup

How far away is this? 1/2 miles (one way)

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 250 gallons

What do you use this water for? drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: good water from Gallup

US EPA ARCHIVE DOCUMENT

Sheet. livestock graze notes

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01.31.99 Interviewer Mavis Smith

Name of Person Interviewed: Sara Montoya

Mailing Address: P.O. Box 404 Gallup, N.M. 87305-0404  
P.O. Box or Street Address

Do you have a telephone in your home? Yes No  
If yes, your phone numbers are: H: 722-4117 W: 722-4411 cell: 469-2858  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.):  
Lanang Rock, Chapter  
(map of location attached? Yes No )

How long have you lived at this location? Life  
How long has this land been in your family? 3 generations  
How many people are in your family? 1 2 3 4 5 6 more? 40

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 15; # cattle 25; # horses 5; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No  
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home?  Yes No  
What do you use this water for? Drinking?  Yes No  
Cooking?  Yes No  
Bathing?  Yes No  
Irrigation? Yes  No  
Livestock? Yes  No

Describe the quality of this water Okay

Do you haul water for any purpose?  Yes No  
Where do you get this water? Gaup Churchrock, Crownpoint

How far away is this? 30 or more

How often do you haul water? daily

How much (in gallons) do you haul at any one time? 100 gallons

What do you use this water for? drinking, cooking, horses & cattle

Describe the quality of this water: Salty, hardwater

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Want to  
hear from  
us

Date of Survey: Jan 31, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Alfred / Vera Murphy

Mailing Address: P.O. Box 358 Church Rock NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: NO W:  cell: 870-0467  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): # 163 Pipeline Rd - Rural address  
downwind from UNC tailing.  
(map of location attached? Yes No )

How long have you lived at this location? Alfred - all my life 30 Vera: 10 years

How long has this land been in your family? 3 generations

How many people are in your family? 1 2 3 4  5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? 1 mile square mile  
If yes, how many head of livestock do you graze?  
# sheep \_\_\_\_\_; # cattle 20; # horses 3; # other 1 Shelton  
# goat

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home?  Yes  No  
What do you use this water for? Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water good water

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Windmill; nearby

How far away is this? 1/2 a mile A/quarter of a mile

How often do you haul water? twice a week

How much (in gallons) do you haul at any one time? 100 gallon in a week

What do you use this water for? horses

Describe the quality of this water: just for livestock purpose

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 31, 1999 Interviewer: Mavis Smith

Name of Person Interviewed: Elsie Leslie / Ray Murphy  
grandson

Mailing Address: P.O. Box 703 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Local Canyon Rd 187D

(map of location attached? Yes No )

How long have you lived at this location? 80 years

How long has this land been in your family? 3 generation

How many people are in your family?  1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes No  
If yes, how many acres are used for grazing? 3 miles square  
If yes, how many head of livestock do you graze?  
# sheep 23; # cattle 500; # horses 500; # other \_\_\_\_\_  
# goat 7

Do you use the land for growing crops?  Yes No  
If yes, what kind of crops do you grow? corn, pumpkin, potatoes  
If yes, how many acres are in crops? 1 acre

Do you have running water in your home?  Yes No  
What do you use this water for?  
Drinking?  Yes No  
Cooking?  Yes No  
Bathing?  Yes No  
Irrigation? Yes  No  
Livestock? Yes  No

Describe the quality of this water Clean from predale

Do you haul water for any purpose?  Yes No  
Where do you get this water? Rehoboth

How far away is this? 10 miles one way

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 2 barrels

What do you use this water for? livestock, horses cattle, sheep

Describe the quality of this water: good; also drinkable



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 30, 1998 Interviewer: Mavis Smith

Name of Person Interviewed: Annie Nez / Alfred Nez

Mailing Address: P O Box 703 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: 722-3876 cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipeline Rd 187c

How long have you lived at this location? All my life, over 50 years (map of location attached? Yes No )

How long has this land been in your family? 3 generations or more

How many people are in your family? 1 2 3  4 5 6 more? 7 including 3 grandchildren

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 60; # cattle 75; # horses 3; # other \_\_\_\_\_  
# goat \_\_\_\_\_

Do you use the land for growing crops?  Yes  No  
If yes, what kind of crops do you grow? Corn, Squash  
If yes, how many acres are in crops? 1 acre

Do you have running water in your home?  Yes  No  
What do you use this water for?  
Drinking?  Yes  No  
Cooking?  Yes  No  
Bathing?  Yes  No  
Irrigation?  Yes  No  
Livestock?  Yes  No

Describe the quality of this water good

Do you haul water for any purpose?  Yes  No  
Where do you get this water? Sometimes from Gallup, nearby Windmill

How far away is this? Gallup 20 miles / Windmill 1/2 mile

How often do you haul water? twice a week

How much (in gallons) do you haul at any one time? 50 gallons

What do you use this water for? horses

Describe the quality of this water: \_\_\_\_\_



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 31, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Atta Yazzie / Delbert Antonio / Billy Ya.  
Mailing Address: Box 748 Church Rock, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): local Canyon Rd #

(map of location attached? Yes No )  
How long have you lived at this location? 65 years  
How long has this land been in your family? 3 generations  
How many people are in your family? 1 2 3 4 5  6 more? 10

Do you use the land for grazing?  Yes  No  
If yes, how many acres are used for grazing? \_\_\_\_\_  
If yes, how many head of livestock do you graze?  
# sheep 0; # cattle 0; # horses 0; # other 0  
goat 6

Do you use the land for growing crops?  Yes  No No!  
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes No  
Cooking? Yes No  
Bathing? Yes No  
Irrigation? Yes No  
Livestock? Yes No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose? Yes  No   
Where do you get this water? Rehoboth

How far away is this? 11 miles (one way)  
How often do you haul water? every week  
How much (in gallons) do you haul at any one time? 2 gallon  
What do you use this water for? drinking, cooking, bathing, cleaning  
Describe the quality of this water: Clean water

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer: Jan 30, 1999 Mavis Smith

Name of Person Interviewed: Roger Williams

Mailing Address: \_\_\_\_\_

P.O. Box or Street Address: P. 653 Jig Street, Gallup, NM

Do you have a telephone in your home? Yes  No

If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_

If no, do you have access to a telephone near your home?  Yes  No Dead Horse Thrift store

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley Rd 120

How long have you lived at this location? (map of location attached? Yes No) All my life; over 45 years

How long has this land been in your family? many generations; 2 generations

How many people are in your family? 1 2 3 4  5 6 more? \_\_\_\_\_

Do you use the land for grazing?  Yes  No

If yes, how many acres are used for grazing? 5 acres

If yes, how many head of livestock do you graze?

# sheep 0; # cattle 2; # horses 1; # other \_\_\_\_\_  
# goats 0

Do you use the land for growing crops?  Yes  No

If yes, what kind of crops do you grow? corn, squash, beans, apple, pear, plum, grape, apricots, tree

If yes, how many acres are in crops? 5 acres

Do you have running water in your home? Yes  No

What do you use this water for? Drinking? Yes  No

Cooking? Yes  No

Bathing? Yes  No

Irrigation? Yes  No

Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No

Where do you get this water? Barony Lumber, Church Rock State Park, Rehoboth Christian School

How far away is this? 8 or 9 miles (one way)

How often do you haul water? once a week; some time 2x a week

How much (in gallons) do you haul at any one time? 250 gallons

What do you use this water for? Drinking, cooking, bathing, irrigation, livestock

Describe the quality of this water: 0-10; it's about 5

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: 01-30-99 Interviewer Jan. 30, 1999 Mavis S. 4

Name of Person Interviewed: Tom Williams and Ann Williams

Mailing Address: P.O. Box 2654 Gallup, NM 87305

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No

If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_

If no, do you have access to a telephone near your home? Yes No Deedhorse Thrift Store

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Happy Valley B6A

(map of location attached? Yes No )  
How long have you lived at this location? Tom Williams <sup>or</sup> 50 - Ann Williams - over

How long has this land been in your family? many generations, past a few grandparents

How many people are in your family? 1  2  3  4  5  6 more? over

Do you use the land for grazing?  Yes  No

If yes, how many acres are used for grazing? 3 acres

If yes, how many head of livestock do you graze?

# sheep 70; # cattle \_\_\_\_\_; # horses 1; # other \_\_\_\_\_  
goat

Do you use the land for growing crops?  Yes  No

If yes, what kind of crops do you grow? corn, squash, beans

If yes, how many acres are in crops? 3 acres

Do you have running water in your home? Yes  No

What do you use this water for? Drinking? Yes No

Cooking? Yes No

Bathing? Yes No

Irrigation? Yes No

Livestock? Yes No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose?  Yes  No

Where do you get this water? Church Rock, Red Rock State Park

How far away is this? \_\_\_\_\_

How often do you haul water? 2x a week

How much (in gallons) do you haul at any one time? 165 gallon

What do you use this water for? Drinking, cooking, Bathing, Irrigation, livestock

Describe the quality of this water: good water; taste good

ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 31, 1999 Interviewer MONS Smith

Name of Person Interviewed: Jerry Whitlock

Mailing Address: P.O. Box 478 Church Rock, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No  505 786-584

If yes, your phone numbers are: H: \_\_\_\_\_ W: ✓ cell: \_\_\_\_\_

If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): Pipeline Rd House 201

How long have you lived at this location? (map of location attached? Yes No ) all my life 51 years

How long has this land been in your family? 3 generations

How many people are in your family? 1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No

If yes, how many acres are used for grazing? a large area

If yes, how many head of livestock do you graze?

# sheep 3 ; # cattle 23 ; # horses 7 ; # other 0

Do you use the land for growing crops? Yes  No

If yes, what kind of crops do you grow? \_\_\_\_\_

If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No

What do you use this water for? Drinking? Yes  No

Cooking? Yes  No

Bathing? Yes  No

Irrigation? Yes  No

Livestock? Yes  No

Describe the quality of this water its hard water

Do you haul water for any purpose? Yes  No

Where do you get this water? Sometimes from Gallup or nearby Windmill

How far away is this? Gallup, 30 miles (one way) Windmill (1/2 mile)

How often do you haul water? Once a week

How much (in gallons) do you haul at any one time? 50 gallons

What do you use this water for? livestock

Describe the quality of this water: Gallup water is okay; treated

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: Jan 31, 1999 Interviewer: Mavis Smith

Name of Person Interviewed: Lucille Whitrock

Mailing Address: P.O. Box 478 Church Rock, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H:        W:  cell:         
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 3 miles (Pipeline Rd House 201A

(map of location attached? Yes No )  
How long have you lived at this location? All my life; over 30 years  
How long has this land been in your family? 3 generations  
How many people are in your family? 1 2 3 4 5 6 more?       

Do you use the land for grazing? Yes  No  age group 13-51  
If yes, how many acres are used for grazing? a large area  
If yes, how many head of livestock do you graze?  
# sheep 3; # cattle 20; # horses 7; # other         
# goat

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow?         
If yes, how many acres are in crops?       

Do you have running water in your home? Yes  No   
What do you use this water for? Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No   
Describe the quality of this water: It's pretty good. Hard

Do you haul water for any purpose? Yes  No   
Where do you get this water? Sometimes from Gallup, or  
Windmill  
How far away is this? Gallup 20 miles Windmill 1/2 mile  
How often do you haul water? once a week  
How much (in gallons) do you haul at any one time? 50 or less  
What do you use this water for? livestock  
Describe the quality of this water: Gallup; treated

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: February 6, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Larry J King

Mailing Address: P.O. Box 2197 Gallup, NM

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: W: 726-2520 cell: 870-0671

If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 7 miles north on State Rd 566

(map of location attached? Yes No )

How long have you lived at this location? lifetime

How long has this land been in your family? More than 80

How many people are in your family? 1 2 3 4 5 6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? 40  
If yes, how many head of livestock do you graze?  
# sheep 0; # cattle 10; # horses 0; # other 0

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water \_\_\_\_\_

Do you haul water for any purpose? Yes  No   
Where do you get this water? Red Rock State Park or Gallup

How far away is this? 30 (round <sup>round</sup> one way)

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 200 gallons (animals) 20 gallons (domestic use)

What do you use this water for? drinking, cooking, bathing

Describe the quality of this water: good

Summer of 1999 - more water in well

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY

JANUARY 1999

Date of Survey: February 6, 1999 Interviewer Mavis Smith

Name of Person Interviewed: Dorothy King

Mailing Address: P.O. Box 5296 Gallup, NM 87305

P.O. Box or Street Address

Do you have a telephone in your home?  Yes  No MS

If yes, your phone numbers are: H: W: 722-1492 cell: yes

If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 7 miles north on State Rd 566

(map of location attached? Yes No )

How long have you lived at this location? lifetime

How long has this land been in your family? 80 years and more

How many people are in your family? 1 2 3  4 5  6 more?         

Do you use the land for grazing?  Yes  No

If yes, how many acres are used for grazing? 480 acres

If yes, how many head of livestock do you graze?

# sheep 0; # cattle 5; # horses 1; # other 0

Do you use the land for growing crops? Yes  No

If yes, what kind of crops do you grow?         

If yes, how many acres are in crops?         

Do you have running water in your home? Yes  No

What do you use this water for? Drinking? Yes  No

Cooking? Yes  No

Bathing? Yes  No

Irrigation? Yes  No

Livestock? Yes  No

Describe the quality of this water         

Do you haul water for any purpose? Yes  No

Where do you get this water? Red Rock State Park

How far away is this? 14 miles (round trip)

How often do you haul water? twice a week

How much (in gallons) do you haul at any one time? 50 gallons

What do you use this water for? drinking, cooking, bathing

Describe the quality of this water: good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY

JANUARY 1999

Date of Survey: February 6, 1999 Interviewer: Mavis Smith

Name of Person Interviewed: Rita J. Grey

Mailing Address: P.O. Box 148 Rehoboth, NM 87322

P.O. Box or Street Address

Do you have a telephone in your home?  Yes No  
 If yes, your phone numbers are: H: — W: yes cell: yes  
 If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 7 miles north on State Rd 566

(map of location attached? Yes No )  
 How long have you lived at this location? lifetime  
 How long has this land been in your family? more than 50 years  
 How many people are in your family? 1 2 3 4  5 6 more? —

Do you use the land for grazing?  Yes No  
 If yes, how many acres are used for grazing? 480  
 If yes, how many head of livestock do you graze?  
 # sheep 0; # cattle 10; # horses 1; # other 3 dogs

Do you use the land for growing crops? Yes  No   
 If yes, what kind of crops do you grow? —  
 If yes, how many acres are in crops? —

Do you have running water in your home? Yes  No   
 What do you use this water for?  
 Drinking? Yes  No   
 Cooking? Yes  No   
 Bathing? Yes  No   
 Irrigation? Yes  No   
 Livestock? Yes  No

Describe the quality of this water —

Do you haul water for any purpose?  Yes No  
 Where do you get this water? Rehoboth

How far away is this? 12 (one way)

How often do you haul water? 3 X a week

How much (in gallons) do you haul at any one time? 50-400 (addition for livestock)

What do you use this water for? drinking, cooking, bathing, livestock

Describe the quality of this water: good

US EPA ARCHIVE DOCUMENT

ENDAUM NAVAJO LAND USE SURVEY

JANUARY 1999

Date of Survey: February 6, 1999 Interviewer: Maris Smith

Name of Person Interviewed: Irene Eskets

Mailing Address: P.O. Box 308 Church Rock, NM 87311

P.O. Box or Street Address

Do you have a telephone in your home? Yes  No   
 If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_

If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): 7 miles north of Church Rock

(map of location attached? Yes No )

How long have you lived at this location? life time

How long has this land been in your family? life time

How many people are in your family? 1  2  3  4  5  6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No   
 If yes, how many acres are used for grazing? \_\_\_\_\_

If yes, how many head of livestock do you graze?  
 # sheep \_\_\_\_\_; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No

If yes, what kind of crops do you grow? \_\_\_\_\_  
 If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No

What do you use this water for? Drinking? Yes  No   
 Cooking? Yes  No   
 Bathing? Yes  No   
 Irrigation? Yes  No   
 Livestock? Yes  No

Describe the quality of this water: Tastes funny

Do you haul water for any purpose? Yes  No

Where do you get this water? City of Gallup

How far away is this? 30 miles round trip

How often do you haul water? once a week

How much (in gallons) do you haul at any one time? 20 gallons

What do you use this water for? drinking and cooking

Describe the quality of this water: good

US EPA ARCHIVE DOCUMENT



ENDAUM NAVAJO LAND USE SURVEY  
JANUARY 1999

Date of Survey: February 6, 1999 Interviewer: Maria Smith

Name of Person Interviewed: Louis and Bessie Eskert

Mailing Address: \_\_\_\_\_

P.O. Box or Street Address \_\_\_\_\_

Do you have a telephone in your home? Yes  No   
If yes, your phone numbers are: H: \_\_\_\_\_ W: \_\_\_\_\_ cell: \_\_\_\_\_  
If no, do you have access to a telephone near your home? Yes  No

What is the location of your home? (describe by T-R-S, nearest highway, distance from Chapter House, etc.): \_\_\_\_\_

(map of location attached? Yes  No )

How long have you lived at this location? life time; 75 years

How long has this land been in your family? life time

How many people are in your family? 1  2  3  4  5  6 more? \_\_\_\_\_

Do you use the land for grazing? Yes  No   
If yes, how many acres are used for grazing? 320 acres  
If yes, how many head of livestock do you graze?  
# sheep 20; # cattle \_\_\_\_\_; # horses \_\_\_\_\_; # other \_\_\_\_\_

Do you use the land for growing crops? Yes  No   
If yes, what kind of crops do you grow? \_\_\_\_\_  
If yes, how many acres are in crops? \_\_\_\_\_

Do you have running water in your home? Yes  No   
What do you use this water for?  
Drinking? Yes  No   
Cooking? Yes  No   
Bathing? Yes  No   
Irrigation? Yes  No   
Livestock? Yes  No

Describe the quality of this water: taste funny; too much chlorine

Do you haul water for any purpose? Yes  No   
Where do you get this water? Gallup

How far away is this? 30 miles

How often do you haul water? Monthly - weekly

How much (in gallons) do you haul at any one time? 50 gallons

What do you use this water for? drinking, packing

Describe the quality of this water: good