

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK   
 b TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE

2 NAME OF OPERATOR  
 CHUSKA ENERGY COMPANY

3 ADDRESS OF OPERATOR  
 P. O. BOX 2118, FARMINGTON, NEW MEXICO

4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements \*)  
 At surface 1980' FSL & 2110' IWL  
 At proposed prod zone SAME  
 NOV 04 1985

14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE  
 DIVISION OF OIL, GAS & MINING

15 DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drig unit line, if any)

16 NO OF ACRES IN LEASE  
 5420

17 NO OF ACRES ASSIGNED TO THIS WELL  
 40

18 DISTANCE FROM PROPOSED LOCATION TO NEAREST WELL, DRILLING, COMPLETED OR APPLIED FOR, ON THIS LEASE, FT

19 PROPOSED DEPTH  
 5600

20 ROTARY OR CARIK TOOLS  
 ROTARY

21 ELEVATIONS (Show whether DF, RT, GR, etc)  
 4668" GR

22 APPROX DATE WORK WILL START\*  
 December 30, 1985

23 PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
17 1/2	13 3/8	54.50	80	See Attached
12 1/4	8 5/8	24.0	1600	
7 7/8	5 1/2	15.50	5600	

SEE ATTACHED

APPROVED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING  
 DATE 11/13/85  
 BY John K. Bay  
 WELL SPACING 6-3(a)

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM. If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

SIGNED John Alexander TITLE Vice-President DATE 10/30/85  
 JOHN ALEXANDER

(This space for Federal or State office use)

PERMIT NO 43-037-31216 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
 CONDITIONS OF APPROVAL IF ANY \_\_\_\_\_

\*See Instructions On Reverse Side

COMPANY CHUSKA ENERGY COMPANY

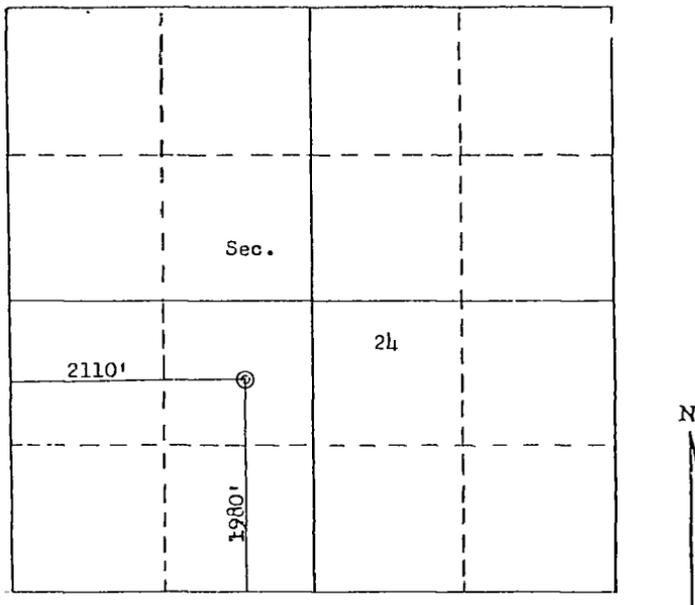
LEASE NAVAJO TRIBAL A WELL NO. 23-24

SEC 24, T 41S, R 23E

County: San Juan State: Utah

LOCATION 1980'ESL 2110'FWL

ELEVATION 4668 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

*Fred B. Kowler*  
Fred B. Kowler  
Registered Land Surveyor  
STATE OF UTAH  
1919

SURVEYED . . . . . October 21 . . . . . 1985

FORMATION INFORMATION AND  
DRILLING PRACTICES

CHUSKA ENERGY COMPANY  
Navajo Tribal A No. 23-24  
1980' FSL & 2110' FWL  
Section 24, T41S, R23E  
San Juan County, Utah

1 Surface Formation Bluff Sandstone

2 Estimated Formation Tops

Chinle	1290'
DeChelly	2410'
Organ Rock	2635'
Hermosa	4345'
Upper Ismay	5208'
Lower Ismay	5374'
Desert Creek	5430'
T D	5600'

3 Estimated Depth of Anticipated Oil, Gas, Water or Minerals

Oil 5430'

4 Proposed Casing Program

0-80' 13 3/8", 54.5 lb/ft, ST & C J-55 new casing, cement with 120 cu ft Class "B" + 2% CaCl<sub>2</sub> + 1/4 lb celophane flakes per sack

0-1600' 8 5/8" 24 lb/ft, ST & C K-55 new casing cement with 800 cu ft 65-35 poz mix + 2% CaCl<sub>2</sub> Cement will be brought to surface

0-5600' T D 5 1/2", 15.5 lb/ft, ST & C K-55 new casing cement with 450 cu ft 50-50 poz mix + 2% CaCl<sub>2</sub> + 10% salt + 0.8% fluid loss additive Cement top at 4000'

5 Pressure Control Equipment - Blow Out Preventor

The attached schematic shows the type of blowout preventor to be used while drilling. The unit will be tested to 800 psi prior to drilling from under surface pipe.

6 Drilling Fluids

DEPTH	TYPE	VIS	WEIGHT	FLUID USAGE
0-1600'	Gel-lime	35-45	9.0	Not controlled
1600-4000	Gel-chem	35-45	9.5	15cc
4000-5600'	Low solids	45-50	10.0	9cc

7 Auxiliary Equipment

a Bit float

b Stabbing valve to be used in drill pipe when Kelly is not connected

8. Logging - Coring - Testing Program:

Logging - Open Hole: IES, CNL, FDC  
Mud: 4000' to T.D.

Testing: Possible in Lower Ismay and Desert Creek.

Coring: None planned.

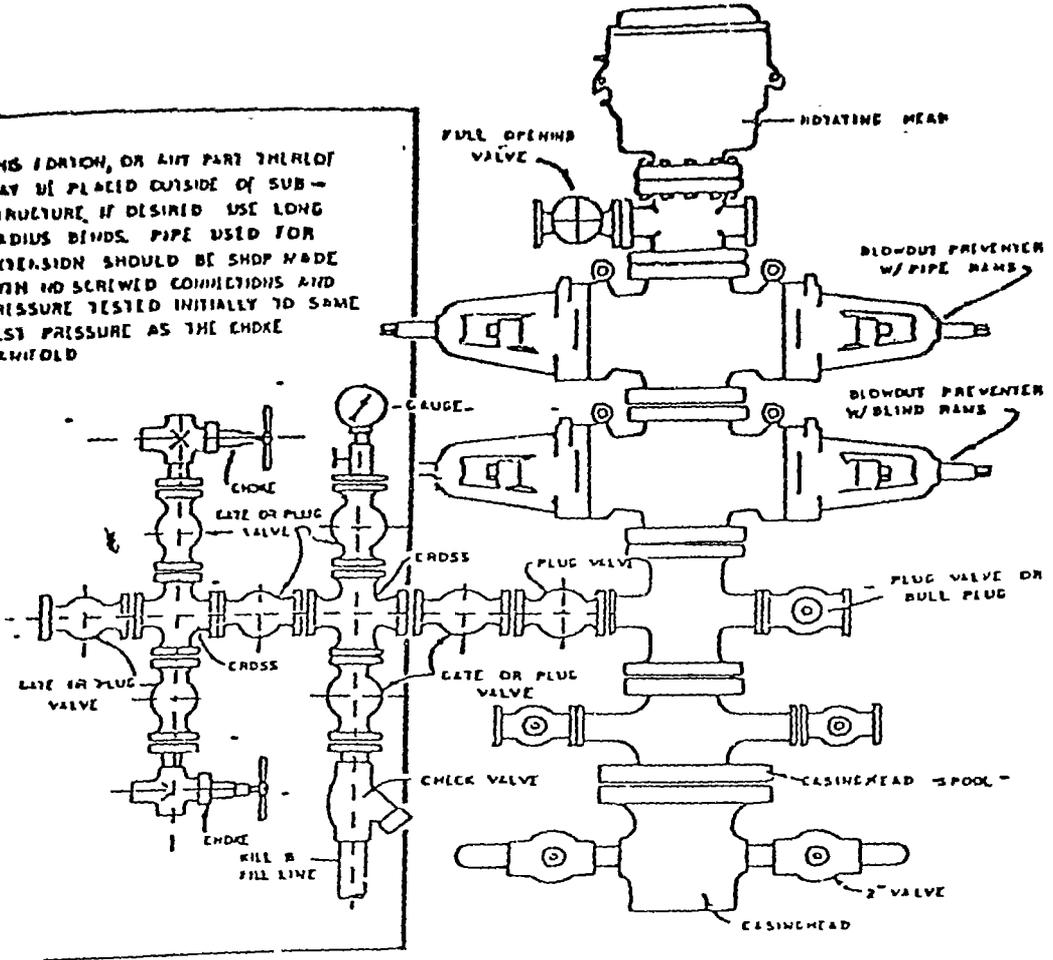
9. Abnormal Temperatures, Pressures or Potential Hazards:

None expected.

10. Starting Date:

Anticipated starting date is December 30, 1985. Approximately 5 days will be required to build roads and location. Drilling will take about 15 days. Completion should be accomplished in 6 days.

THIS SECTION, OR ANY PART THEREOF  
 MAY BE PLACED OUTSIDE OF SUB-  
 STRUCTURE, IF DESIRED USE LONG  
 RADIUS BENDS. PIPE USED FOR  
 EXTENSION SHOULD BE SHOP MADE  
 WITH NO SCREWED CONNECTIONS AND  
 PRESSURE TESTED INITIALLY TO SAME  
 TEST PRESSURE AS THE ENDURE  
 WELLBOLD



BLOWOUT PREVENTER HOOKUP

SURFACE USE PLAN

CHUSKA ENERGY COMPANY  
Navajo Tribal A No 23-24  
1980 FSL & 2110 FWL  
Section 24, T41S, R23E  
San Juan County, Utah

1 Existing Roads (shown in green)

The attached topographic map shows all existing roads within one mile of the proposed location. The access road will join a secondary road leading to an existing county dirt road. The county and secondary road will bear normal drilling traffic and not have to be upgraded.

2 Planned Access Road (shown in red)

The new access road will run East from the existing secondary road approximately 100 feet to the well site. Maximum grade will be 10%. Water bars will be used to prevent erosion.

3 Location of Existing Wells

All existing oil, gas, water, drilling and disposal wells are shown on the attached topographic map.

4 Location of Tank Batteries, Prod Facilities & Prod Gathering & Service Lines

All production facilities are to be contained within the proposed location site. The operation has no other facilities in the area. A 2 1/2" threaded and coupled, steel, 6000 psi test gas line will be laid in the new access road and will follow the existing road to a tie-in in NW/SE 24-41S-23E. This line will initially be laid on the surface and later buried.

5 Location and Type of Water Supply

Water will be trucked from the San Juan River, 4 miles North of the location.

6 Source of Construction Materials

Any gravel or other construction material that can not be obtained from the excess accumulated from building the location will be purchased from the Navajo Tribe.

7 Methods of Handling Waste Disposal

All trash will be carried to a land fill or burned. All non burnable materials (drilling fluids, cuttings, chemicals) will be stored in the reserve pit and then buried when they have dried. Any oil produced while drilling will be trucked from the location prior to leaving pit to dry out. Pits will be completely fenced during drying time then backfilled with dirt prior to preparing the location for production or abandonment.

8 A portable chemical toilet will be supplied for human waste.

9 Ancillary Facilities

No ancillary facilities are planned.

10. Well Site Layout.

The attached layout shows the drilling rig with all associated facilities. Cut and fill required is also indicated.

11. Plans for Restoration of Surface:

Restoration of the wellsite and access road will begin within 90 days of well completion, weather permitting, and if required by private land owner. Should well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed up and leveled. Both drill site and road will have any topsoil replaced and will be reseeded when germination of seeds can take place. In either case, cleanup of the site will include burning of any safely burnable material, filling of all pits, carrying away of all non burnable material and any chemicals that can not be safely buried, and the hauling off of any oil that may have accumulated on the pits while drilling. A burn permit will be acquired if necessary.

12. This location is approximately 4 miles South of the San Juan River. It is located on flat ground and covered with native weeds and grasses. No artifacts were found on the site. There are no residences in the area.

13. John Alexander  
CHUSKA ENERGY COMPANY  
P. O. Box 2118  
Farmington, New Mexico 87499  
(505) 326-5525

14. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Chuska Energy Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

  
JOHN ALEXANDER  
October 30, 1985

300

200

trailer

pipe racks

rig

mud  
supply

generator

steel pipes

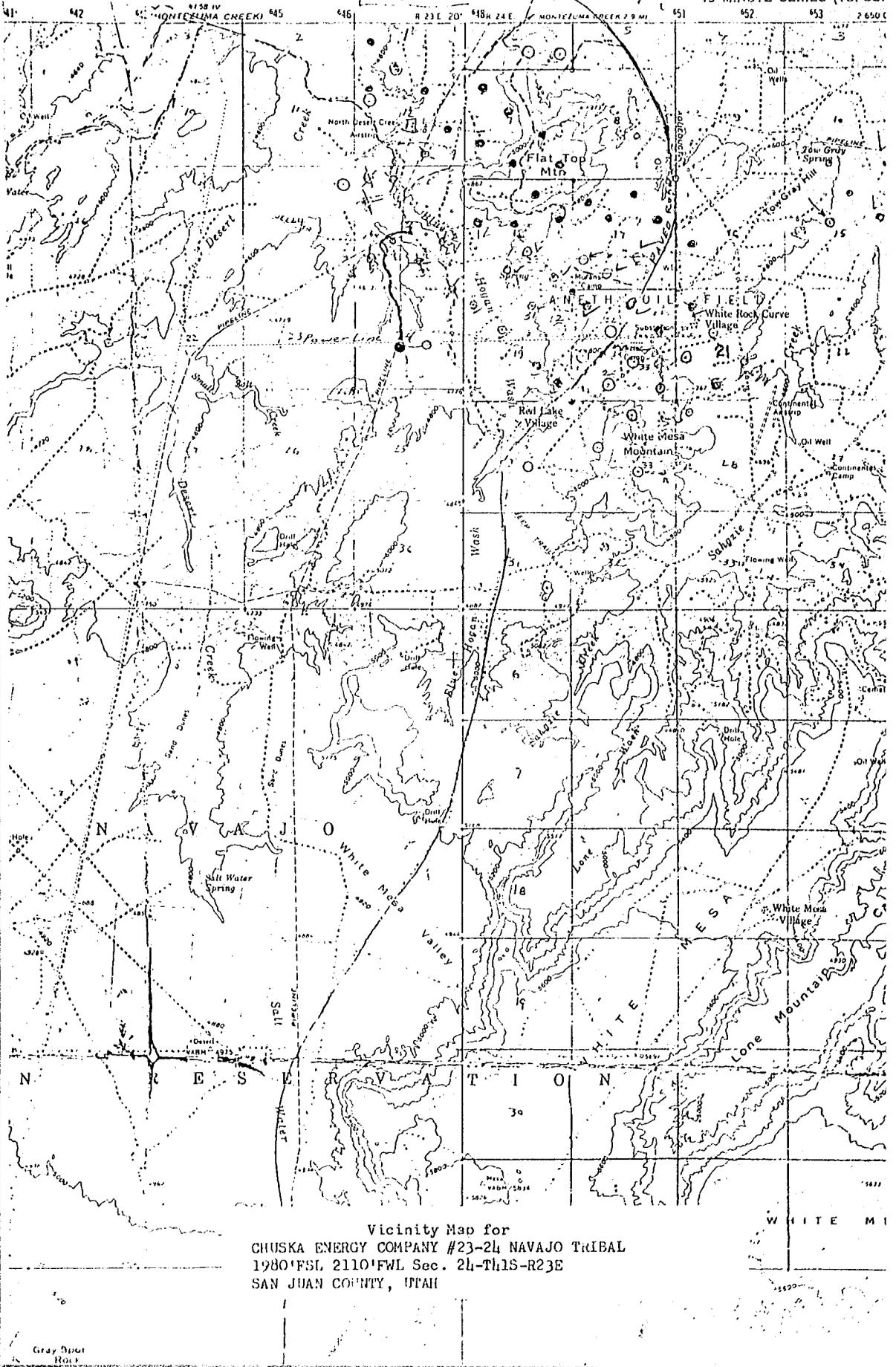
Access

reserve pit

CHUSKA ENERGY CO.  
Navajo Tribal # 23-24  
NE SW 24-41S-23E  
San Juan, Utah



WHITE MESA VILLAGE QUA  
UTAH  
15 MINUTE SERIES (TOPOG)

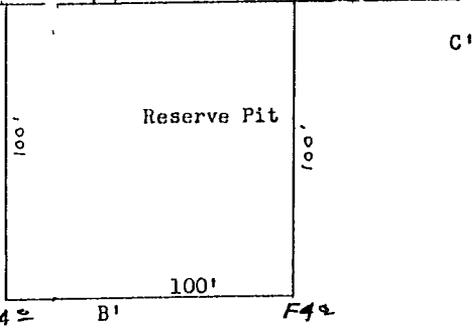
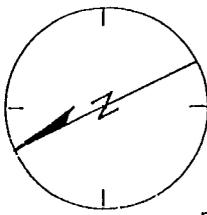
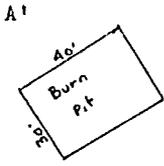
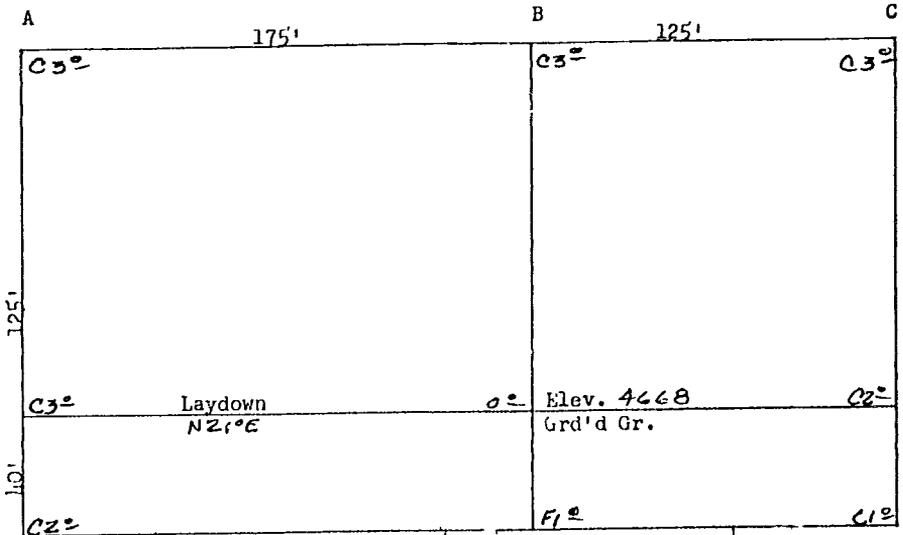


Vicinity Map for  
CHUSKA ENERGY COMPANY #23-24 NAVAJO TRIBAL  
1980'FSL 2110'FWL Sec. 24-24S-R23E  
SAN JUAN COUNTY, UTAH

WHITE MESA

Gray Spot  
Rout

Profile for  
 CHU ENERGY COMPANY #23-24 NAVAJO T8AL  
 1980' FSL 2110' FWL Sec. 24-T41S-R23E  
 SAN JUAN COUNTY, UTAH



Scale: 1"=50'

A-A' Vert: 1"=30' Horiz: 1"=100' C/L

4670				
4660				

B-B' C/L

4670				
4660				

C-C' C/L

4670				
4660				

OPERATOR Chuska Energy Co DATE 11-5-85

WELL NAME Navajo Unit A 23-24

SEC NE SW 24 T. 41S R. 23E COUNTY San Juan

43-037-31216  
API NUMBER

Indian  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well within 1000'  
Need water permit

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT

C-3-a \_\_\_\_\_ CAUSE NO. & DATE

C-3-b

C-3-c

STIPULATIONS:

1- Water



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 801-538-5340

November 13, 1985

Chuska Energy Company  
P. O. Box 2118  
Farmington, New Mexico 87499

Gentlemen:

Re: Well No. Navajo Tribal A 23-24 - NE SW Sec. 24, T. 41S, R. 23E  
1980' FSL, 2110' FWL - San Juan County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3 (b), General Rules and Regulations and Rules of Practice and Procedure, subject to the following stipulations:

1. Prior to commencement of drilling, receipt by the Division of evidence providing assurance of an adequate and approved supply of water as required by Chapter 3, Title 73, Utah Code Annotated.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.

Page 2  
Chuska Energy Company  
Well No. Navajo Tribal A 23-24  
November 13, 1985

5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-057-31216.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
Bureau of Indian Affairs



STATE OF UTAH  
NATURAL RESOURCES  
Oil Gas & Mining

Norman H. Bangert, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180 1203 • 801-538-5340

020072

February 2, 1987

Mr. John Keller  
U. S. Bureau of Land Management  
Caller Service 4104  
Farmington, New Mexico 87499

Dear Mr. Keller:

RE: Status of Approved Wells

The attached list of wells operated by Chuska Energy Company in San Juan County, Utah was given approval to drill from this office over one year ago. We have received no other information from the company to determine the current status of these wells. We request that you provide us information concerning whether these wells still have approvals pending with the U. S. Bureau of Land Management. A quick note beside the name of each of the wells on the attached list will be sufficient for our purposes.

Thank you for your prompt consideration of this matter. We appreciate any assistance you can provide us.

Sincerely,

A handwritten signature in dark ink, appearing to read 'John R. Baza'.

John R. Baza  
Petroleum Engineer

sb  
Attachment  
cc: D. R. Nielson  
R. J. Firth  
Well Files  
0258T-89-90

Attachment  
February 2, 1987

Chuska Energy Company  
San Juan County, Utah  
NOG 8308-1033:

Navajo Tribal 41-13  
NE NE, Sec.13, T.42S, R.24E,  
API NO. 43-037-31222

Navajo Tribal 13-8  
NW SW, Sec.8, T.42S, R.25E,  
API NO. 43-037-31223

Navajo Tribal 32-18  
SW NE, Sec.18, T.42S, R.25E,  
API NO. 43-037-31229

NOG 8505-1087:

Navajo Tribal A 24-29  
SE SW, Sec.29, T43S, R.25E,  
API NO. 43-037-31195

Navajo Tribal A 23-24  
NE SW, Sec.24, T.41S, R.23E,  
API NO. 43-037-31216

Navajo Tribal A 33-30  
NW SE, Sec.30, T.41S, R.24E,  
API NO. 43-037-31218

Navajo Tribal A 3325-24  
NW SE, Sec.24, T.41S, R.25E,  
API NO. 43-037-31219

Navajo Tribal A 13-34  
NW SW, Sec.34, T.40S, R.24E,  
API NO. 43-037-31228



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Dee C. Hansen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City UT 84180 1203 • 801-538 5240

RECEIVED  
FEB 11 1987

February 2, 1987

DIVISION OF  
OIL, GAS & MINING

Mr. John Keller  
U. S. Bureau of Land Management  
Caller Service 4104  
Farmington, New Mexico 87499

RECEIVED  
FEB 6 9 1987

BUREAU OF LAND MANAGEMENT  
FARMINGTON RESOURCE AREA

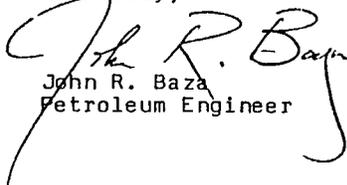
Dear Mr. Keller:

RE: Status of Approved Wells

The attached list of wells operated by Chuska Energy Company in San Juan County, Utah was given approval to drill from this office over one year ago. We have received no other information from the company to determine the current status of these wells. We request that you provide us information concerning whether these wells still have approvals pending with the U. S. Bureau of Land Management. A quick note beside the name of each of the wells on the attached list will be sufficient for our purposes.

Thank you for your prompt consideration of this matter. We appreciate any assistance you can provide us.

Sincerely,

  
John R. Baza  
Petroleum Engineer

sb  
Attachment  
cc: D. R. Nielson  
R. J. Firth  
Well Files  
0258T-89-90

Attachment  
February 2, 1987

Chuska Energy Company  
San Juan County, Utah  
NOG 8308-1033:

Navajo Tribal 41-13 /  
NE NE, Sec.13, T.42S, R.24E, Returned (See encl.)  
API NO. 43-037-31222

Navajo Tribal 13-8 /  
NW SW, Sec.8, T.42S, R.25E, Returned (See encl.)  
API NO. 43-037-31223

Navajo Tribal 32-18 /  
SW NE, Sec.18, T.42S, R.25E, Returned (See encl.)  
API NO. 43-037-31229

NOG 8505-1087:

Navajo Tribal A 24-29  
SE SW, Sec.29, T43S, R.25E, Approval rescinded 1/22/87 (see encl.)  
API NO. 43-037-31195

Navajo Tribal A 23-24  
NE SW, Sec.24, T.41S, R.23E, Need Archeological Clearance  
API NO. 43-037-31216

Navajo Tribal A 33-30 /  
NW SE, Sec.30, T.41S, R.24E, Returned (See encl.)  
API NO. 43-037-31218

Navajo Tribal A 3325-24  
NW SE, Sec.24, T.41S, R.25E, Returned (See encl.)  
API NO. 43-037-31219

Navajo Tribal A 13-34 /  
NW SW, Sec.34, T. JS, R.24E, Returned (See encl.)  
API NO. 43-037-31228



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman I. Bangerter, Governor  
Dee C. Hensen, Executive Director  
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180 • 801-538-5340

091103

September 9, 1987

Chuska Energy Company  
P.O. Box 2118  
Farmington, New Mexico 87499

Gentlemen:

RE: Well No. Navajo Tribal A 23-24, Sec. 24, T. 41S, R. 23E,  
San Juan County, Utah, API NO. 43-037-31216

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

A handwritten signature in black ink that reads "John R. Baza".

John R. Baza  
Petroleum Engineer

sb  
cc: BLM-Farmington  
D. R. Nielson  
R. J. Firth  
Well file  
0327T-105