

**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 87499

**4 LOCATION OF WELL (Report location clearly and in accordance with any State requirements\*)**  
 At surface: 670' FNL & 690' FWL  
 At proposed prod zone:         

**14 DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\***  
        

**6 LEASE DESIGNATION AND SERIAL NO**  
NOG 8308-1033

**6 IF INDIAN, ALLOTTEE OR TRIBE NAME**  
NAVAJO

**7 UNIT AGREEMENT NAME**  
        

**8 FARM OR LEASE NAME**  
NAVAJO TRIBAL

**9 WELL NO**  
11-12

**10 FIELD AND POOL, OR WILDCAT**  
ANETH UNDESIGNATED

**11 SEC T, R, M, OR BLK AND SURVEY OR AREA**  
12 - 42S - 24E

**12 COUNTY OR PARISH**      **13 STATE**  
SAN JUAN      UTAH

**10 DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT (Also to nearest drilg unit line if any)**      **16 NO OF ACRES IN LEASE**      **17 NO OF ACRES ASSIGNED TO THIS WELL**  
              5120      40

**15 DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL DRILLING COMPLETED OR APPLIED FOR, ON THIS LEASE, FT**      **19 PROPOSED DEPTH**      **20 ROTARY OR CABLE TOOLS**  
              5550'      Rotary

**21 ELEVATIONS (Show whether DF, RT, GR, etc)**      **22 APPROX DATE WORK WILL START\***  
4683' GR      June 15, 1986

**23 PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See Attached				

SEE ATTACHED

CONFIDENTIAL

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE 5-8-86  
BY John R. Davis  
WELL SPACING: 302

MAY 8 1986  
DIVISION OF  
OIL, GAS, AND MINING

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.

**24**

SIGNED John Alexander      TITLE Vice-President      DATE 4/24/86  
 (This space for Federal or State office use)

PERMIT NO 43-037-31220      APPROVAL DATE         

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

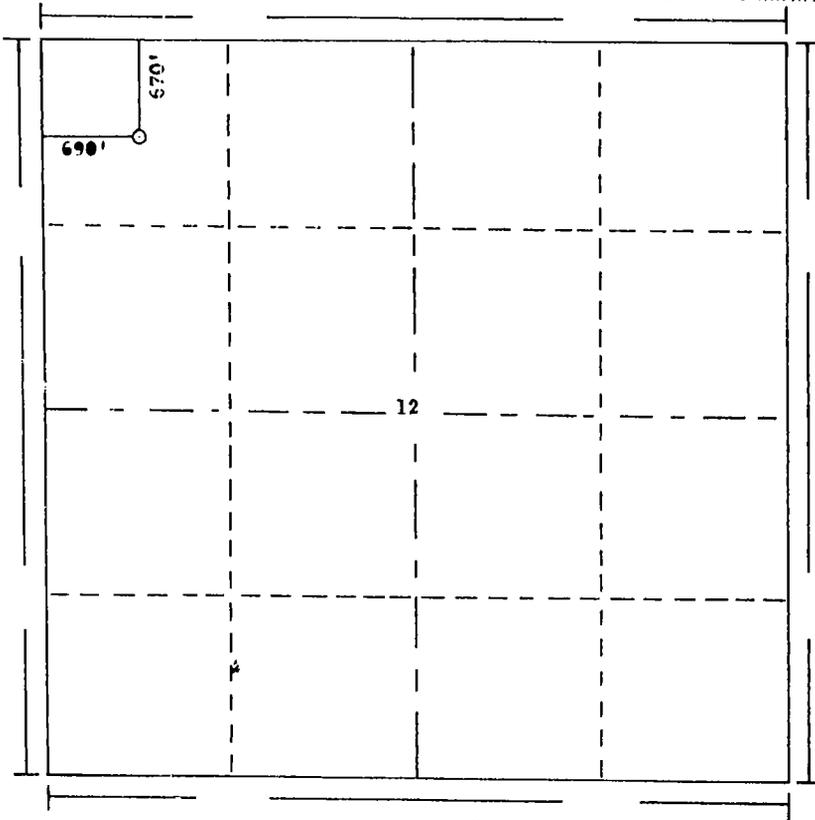
\*See Instructions On Reverse Side



RECEIVED  
MAY 05 1986

R. 24 E

DIVISION OF  
OIL, GAS & MINING



T. 42 S.

Scale... 1" = 1000'

**Powers Elevation of Denver, Colorado**  
 has in accordance with a request from John Alexander  
 for **CHUSKA ENERGY COMPANY**  
 determined the location of Navajo Tribal 11-12  
 to be 670' FNL & 690' FWL Section 12 Township 42 South  
 Range 24 East of the SALT LAKE Principal Meridian  
 San Juan County, Utah

I hereby certify that this plot is an  
 accurate representation of a correct  
 survey showing the location of

Date: April 11, 1986

*E. Samuel Stegen*  
 Licensed Engineer  
 State of Colorado



MAY 05 1986

DIVISION OF  
OIL, GAS & MINING

FORMATION INFORMATION AND  
DRILLING PRACTICES

Chuska Energy Co.  
Navajo Tribal No. 11-12  
670' FNL & 690' FWL  
12-42S-24E  
San Juan Co., Utah

1. Surface Formation: Bluff Sandstone

2. Estimated Formation Tops:

Chinle	1474'
DeChelly	2400'
Organ Rock	2642'
Hermosa	4336'
Upper Ismay	5178'
Lower Ismay	5298'
Desert Creel	5352'
T.D	5550'

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

Oil 5298' Oil 5352'

4. Proposed Casing Program:

0-80' 13 3/8", 54.50 lb.ft., ST&C, J-55 new casing; cemented with 120 cu.ft. Class "B" + 1/4 lb. Flocele/sk. Cement to surface.

0-1600' 8 5/8", 24 lb.ft., ST&C, J-55 new casing; cemented with 800 cu.ft. 65-35 Pozmix with 6% gel followed by 100 cu.ft. Class "B" with 2% CaCl<sub>2</sub>. Cement to surface.

0-5550 5 1/2", 15.50 lb.ft., ST&C, J-55, new casing; first stage cemented with 450 cu.ft. Class "H" containing 10 lb. Calseal/sk. and 10% salt. Cement top at 4,000'. Stage tool at 2700'. Cement second stage with 500 cu.ft. 65-35 Pozmix with 6% gel followed by 100 cu.ft. Class "B". Cement top at 1,000'.

5. Pressure Control Equipment - Blow Out Preventer:

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

6. Drilling Fluids:

Depths	Type	Vis.	Weight	Fluid Loss
0-1600'	gel-time	35-45	9.0	not controlled
1600'-4000'	gel-chem	35-45	9.5	15 cc.
4000'-T.D	gel-chem	45-50	10.0	9 cc.

7. Auxiliary Equipment:

- bit float
- stabbing valve to be used in drill pipe when Kelly is not connected.

8. Logging - Coring - Testing Program:

Logging - Open Hole: IIS, CNL, FDC  
Mud: 4000' to t.d

Testing: possible in Lower Ismay and Desert Cr.

Coring: none planned

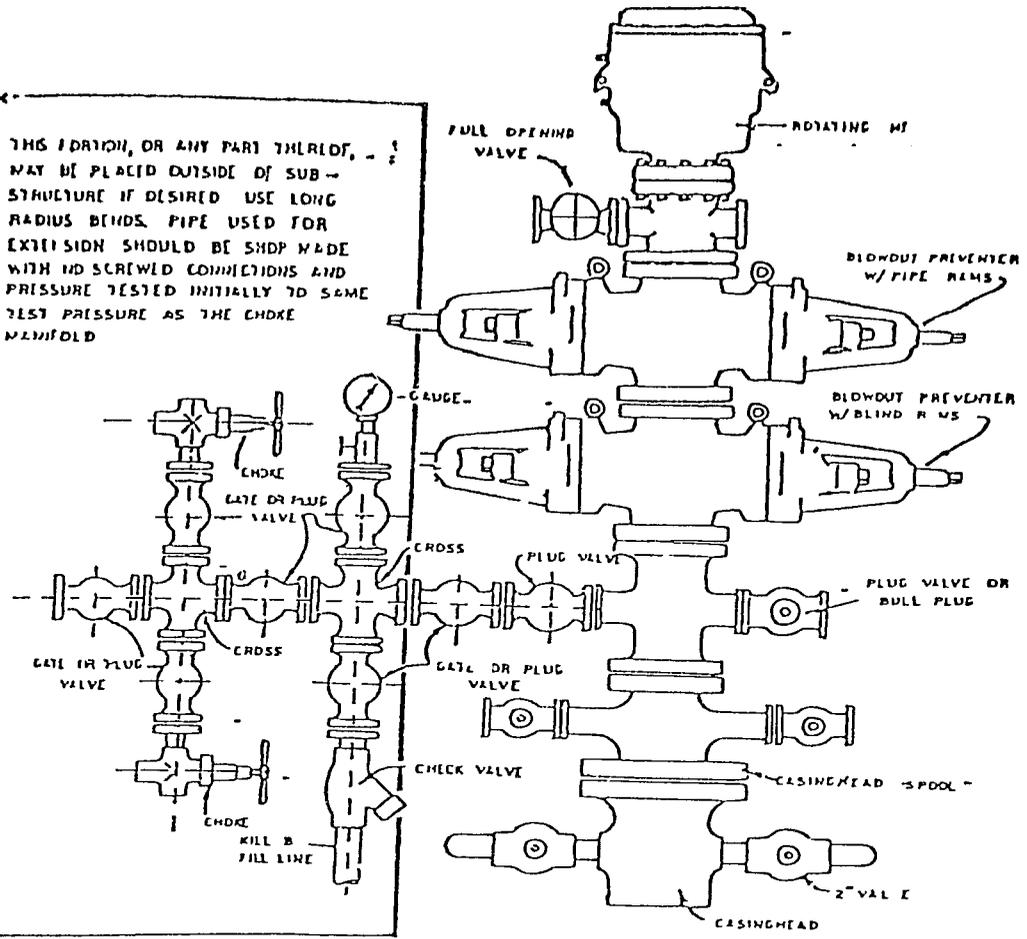
9. Abnormal Temperatures, Pressures, or Potential Hazards:

None expected.

10. Starting Date:

Anticipated starting date is June 15, 1986 . 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 PORTION, 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 WELD SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SOME TEST PRESSURE AS THE CHOKER MANIFOLD



BLOWOUT PREVENTER HOOKUP

SURFACE USE PLAN

Chuska Energy Co  
Navajo Tribal No 11-12  
670 FNL & 690 FWL  
12-42S-24E  
San Juan Co , Utah

1. Existing Roads (shown in green):

The attached topographic map shows all existing roads within one mile of the proposed location. No up grading of the existing road will be required.

2. Planned Access Road (shown in red):

The new access road will have a maximum grade of 10% and will be water barred to prevent erosion. The road will join an existing access road. It will be .75 miles long and 20' wide. No turnouts, cattle guards, or gates will be required. The road will not have to be surfaced and bar ditches will be used only if productive.

3. Location of Existing Wells:

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

4. Location of Production Facilities:

All production facilities are to be contained within the proposed location site. A 2 1/2" steel gas sales line will be laid in existing roads to a point in the NE of 2-42S-24E, San Juan Co., Utah.

5. Location and Type of Water Supply:

Water will be trucked from the San Juan River, 8 miles north of the location. Point of removal is 0' FSL & 1500' FWL T2-40S-24E, San Juan Co., Utah.

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 landfill 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. Pits will be completely fenced during drying time, then back filled with dirt prior to preparing the location for production or abandonment.

8. Human Waste:

A portable 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 well site and access road will begin within 90 days of well completion, weather permitting and if required by the 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 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 cannot 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. The surface is owned by the Navajo Tribe.

12. General Information:

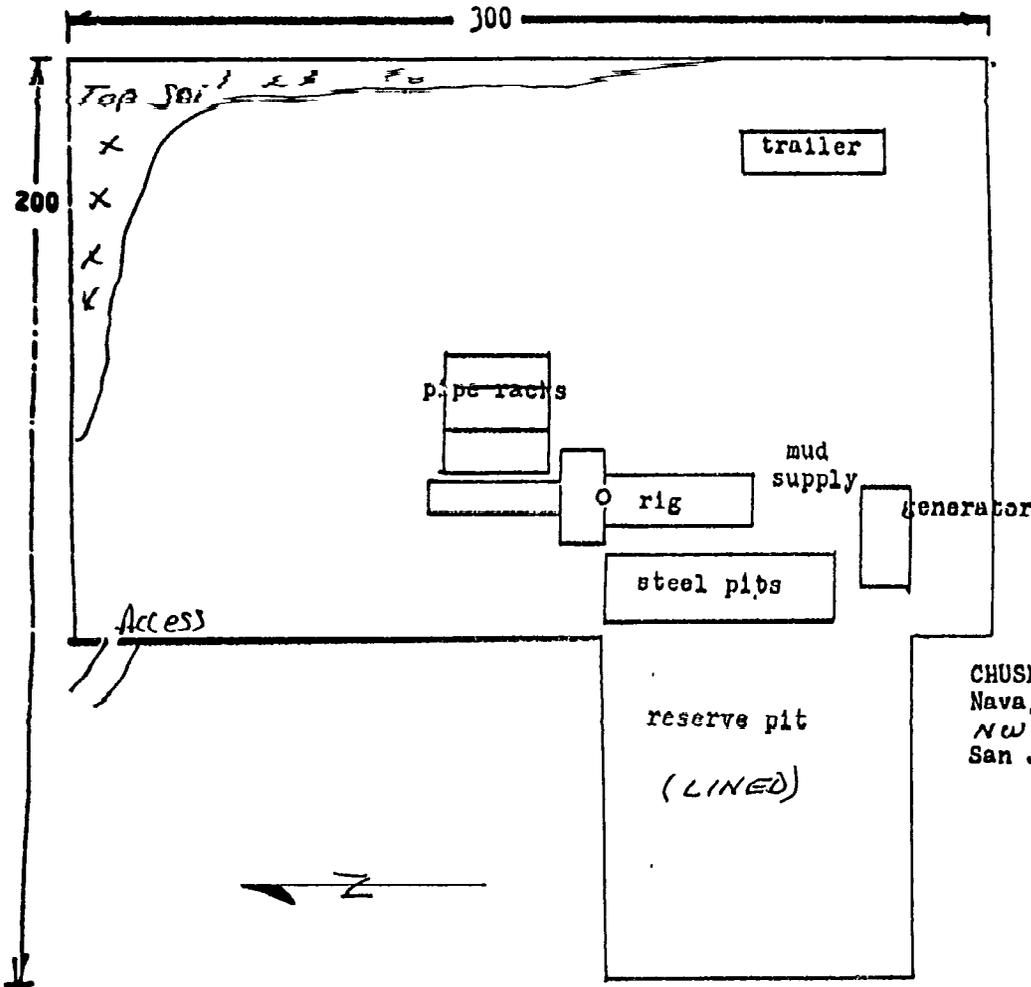
This location is in the Lone Mountain Creel area. It is sandy and covered with native weeds and grasses. There are no residences in the area, no artifacts were found.

13. John Alexander  
Chuska Energy Co.  
P.O. Box 2118  
Farmington, N.M. 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 Co. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

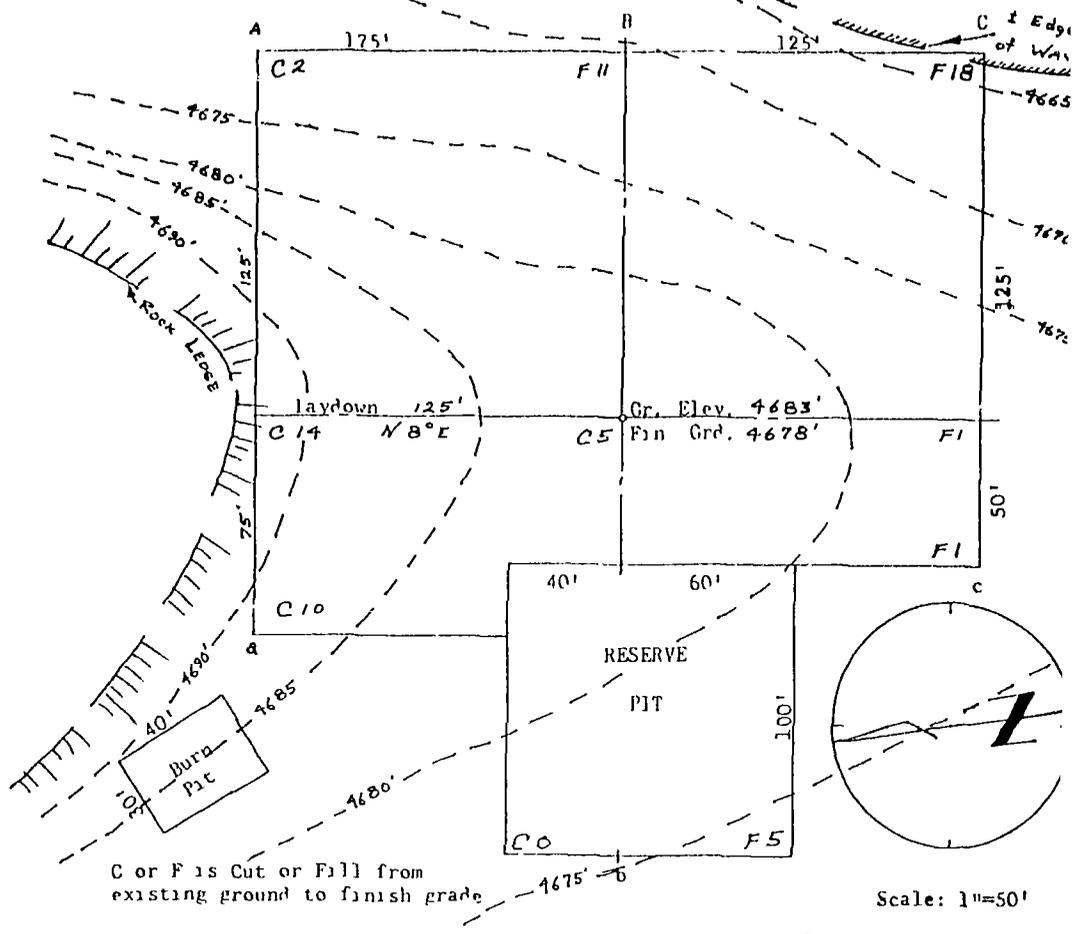
 \_\_\_\_\_ Date 8/23/06  
John Alexander



CHUSKA ENERGY CO.  
Navajo Tribal No. 11-12  
NWNW 13 - 423-345  
San Juan, Utah

KERR LAND SURVEY '10  
April 25, 1986

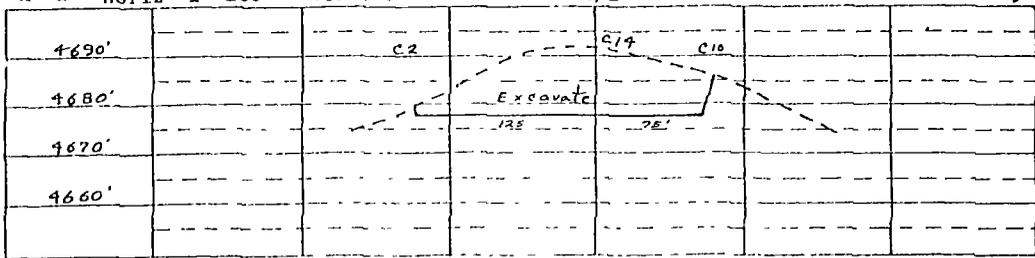
Profile for. CHUSKA ENERGY CO.  
11-12 Nav & Tr 1  
670' FNL @ 690' TWL  
Sec. 12, T42S, R24E  
San Juan Cnty., Utah



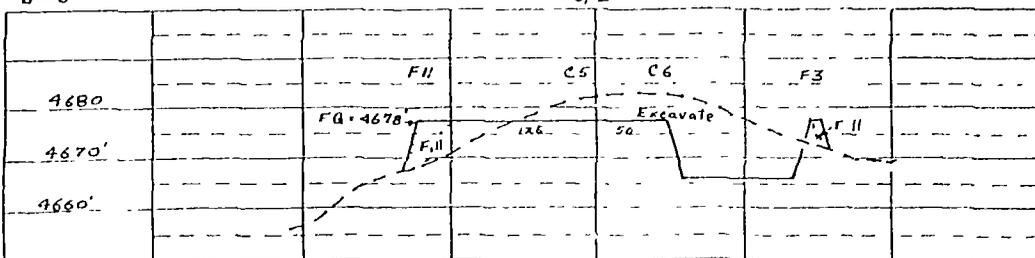
C or F is Cut or Fill from existing ground to finish grade

--- = Existing ground  
—— = Proposed Finished grade

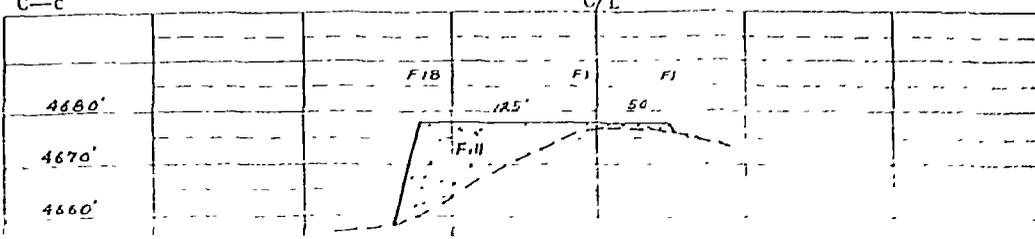
A-a Horiz: 1"=100' Vert: 1"=30'



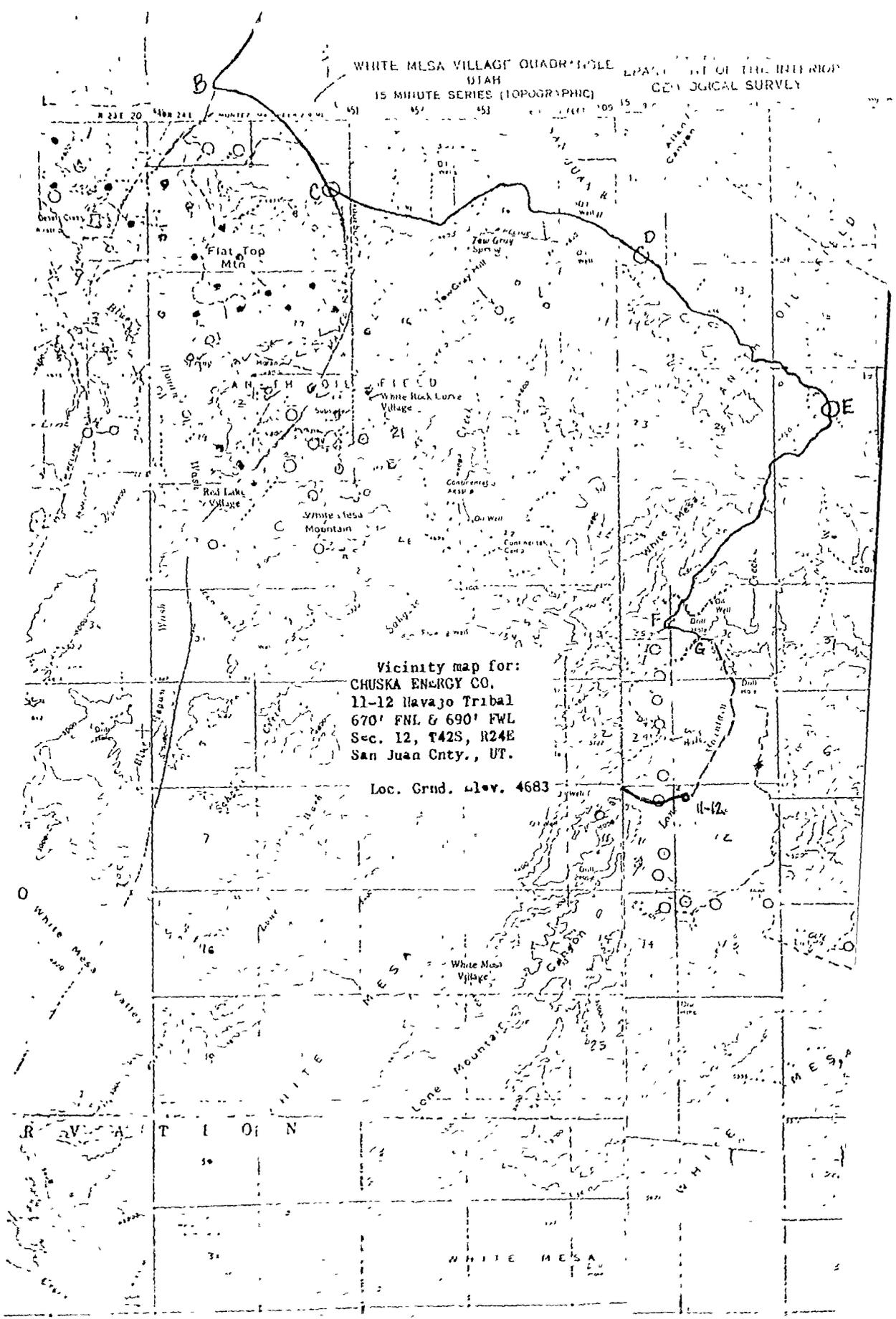
B-b



C-c



WHITE MESA VILLAGE QUADRANGLE UTAH  
15 MINUTE SERIES (TOPOGRAPHIC)  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Vicinity map for:  
CHUSKA ENERGY CO.  
11-12 Navajo Tribal  
670' FNL & 690' FWL  
Sec. 12, T42S, R24E  
San Juan Cnty., UT.

Loc. Grnd. elev. 4683

11-12

STATE OF UTAH  
 DIVISION OF OIL, GAS AND MINING  
 OIL AND GAS INSPECTION RECORD

OPERATOR: CHUSKA ENERGY COMPANY LEASE: INDIAN  
 WELL NAME. NAVAJO TRIBAL #11-12 API: 43-037-31270  
 SEC/TWP/RNG 12 42 0 S 24.0 E CONTRACTOR.  
 COUNTY. SAN JUAN FIELD NAME. UNDESIGNATED

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN \_ / TA \_:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- SAFETY
- OTHER			

ABANDONED:

- MARKER	- HOUSEKEEPING	- REHAB	- OTHER
----------	----------------	---------	---------

PRODUCTION:

Y WELL SIGN	Y HOUSEKEEPING	Y EQUIPMENT *	Y FACILITIES *
Y METERING *	Y POLLUTION CNTL	Y PITS	- DISPOSAL
Y SECURITY	Y SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	Y SOLD	- LEASE USE
-----------------	--------	-------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

\*FACILITIES INSPECTED

WELLHEAD, LOCATION, TANK BATTERY, PRODUCTION FACILITIES

REMARKS

EVERYTHING IS OK LOCATION HAS 3 PRODUCTION TANKS, 1 SMALL WATER TANK.

ACTION

INSPECTOR CHIP HUTCHINSON

DATE: 03/02/88

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
OIL AND GAS INSPECTION RECORD

OPERATOR: CHUSKA ENERGY COMPANY LEASE: INDIAN  
WELL NAME: NAVAJO TRIBAL #11-12 API: 43-037-31270  
SEC/TWP/RNG: 12 42.0 S 24.0 E CONTRACTOR:  
COUNTY: SAN JUAN FIELD NAME: UNDESIGNATED

DRILLING/COMPLETION/WORKOVER:

-- APD -- WELL SIGN -- HOUSEKEEPING -- BOPE  
-- SAFETY -- POLLUTION CNTL Y SURFACE USE -- PITS  
-- OPERATIONS -- OTHER

SHUT-IN -- / TA --:

-- WELL SIGN -- HOUSEKEEPING -- EQUIPMENT \* -- SAFETY  
-- OTHER

ABANDONED:

-- MARKER -- HOUSEKEEPING -- REHAB -- OTHER

PRODUCTION

-- WELL SIGN -- HOUSEKEEPING -- EQUIPMENT \* -- FACILITIES \*  
-- METERING \* -- POLLUTION CNTL -- PITS -- DISPOSAL  
-- SECURITY -- SAFETY -- OTHER

GAS DISPOSITION:

-- VENTED/FLARED -- SOLD -- LEASE USE

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

\*FACILITIES INSPECTED  
LOCATION

REMARKS:

LA'D-NO GROUND DISTURBANCE-NFIN

ACTION:

INSPECTOR: GLENN GOODWIN

DATE: 03/05/90

CONFIDENTIAL

OPERATOR Cluska Energy Co DATE 5-7-86

WELL NAME Navajo Subal 11-12

SEC NW NW 12 T 42S R 24E COUNTY San Juan

43-037-31270  
API NUMBER

Indian  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other well on Sec 12.

Need water permit

APPROVAL LETTER:

SPACING:  203 \_\_\_\_\_ UNIT

302

\_\_\_\_\_ CAUSE NO. & DATE

302.1

STIPULATIONS:

1- Water



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

Norman H. Bangerter, Governor  
Doe 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

May 8, 1986

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

Gentlemen:

Re: Well Name: Navajo Tribal 11-12 - NW NW Sec. 12, T. 42S, R. 24E  
670' FNL, 690' FWL - San Juan County, Utah

Approval to drill the referenced well is hereby granted in accordance with Rule 302, Oil and Gas Conservation General Rules, 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 311.3, Associated Gas Flaring, Oil and Gas Conservation General Rules.

Page 2  
Chuska Energy Company  
Well Name: Navajo Tribal 11-12  
May 8, 1986

5. Prior to commencement of the proposed drilling operations, plans for toilet facilities and the disposal of sanitary waste at each drill site shall be submitted to the local health department having jurisdiction. Any such drilling operations and any subsequent well operations must be conducted in accordance with applicable State and local health department regulations. A list of all local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 533-6163.
6. 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 43-037-31270.

Sincerely,



R. G. Birth  
Associate Director, Oil & Gas

as  
Enclosures  
cc: Branch of Fluid Minerals  
Bureau of Indian Affairs  
D. R. Nielson

8159T



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

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

090303

September 2, 1987

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

Gentlemen:

RE: Well No. Navajo Tribal A 11-12, Sec. 12, T. 42S, R. 24E,  
San Juan County, Utah, API NO. 43-037-31270

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 cursive script that reads "John R. Baza".

John R. Baza  
Petroleum Engineer

sb  
cc: BLM-Farmington  
O. R. Nielson  
R. J. Firth,  
Well file  
0327T-100