

**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
 2140' FSL & 530' FWL
 At proposed prod. zone
 SAME

RECEIVED

NW 5W

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST 1985*
 NOV 04 1985

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 DIVISION OF OIL & GAS & MINING
 5420

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 5500'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4482' GR

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	
12 1/4	8 5/8	24.0	1600	See Attached
7 7/8	5 1/2	15.50	5500	

SEE ATTACHED

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING

DATE: 11/13/85
 BY: John R. Dyer
 WELL SPACING: C-3(B)

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 10/31/85
 (This space for Federal or State office use)

PERMIT NO. 43-037-31215 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

***See Instructions On Reverse Side**

COMPANY CHUSKA ENERGY COMPANY

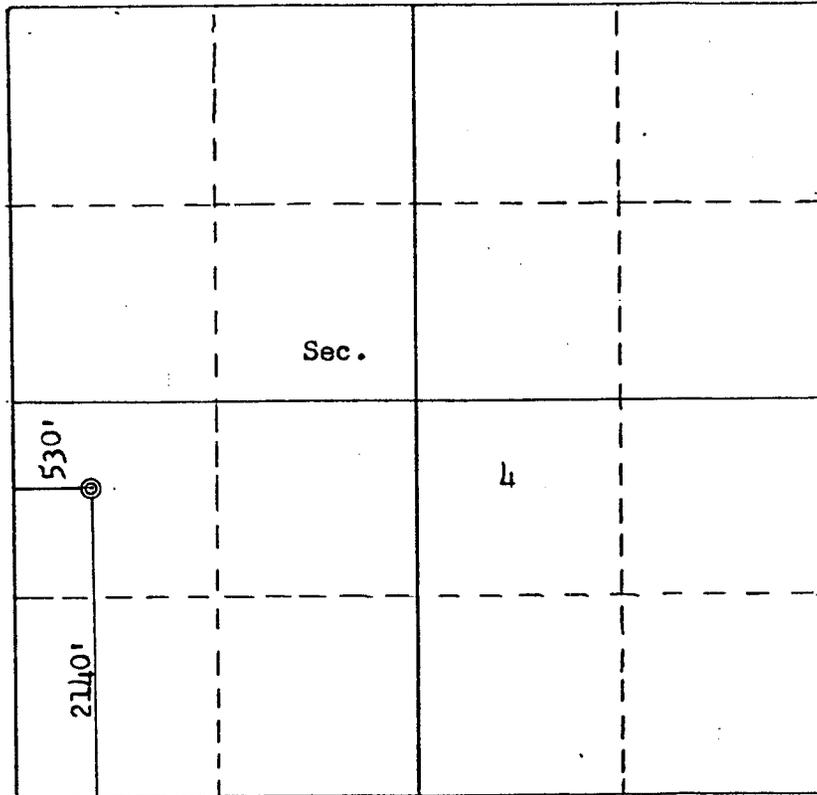
LEASE NAVAJO TRIBAL "A" WELL NO. 13-4

SEC. 4, T. 41S, R. 23E

County: San Juan State: Utah

LOCATION 2140' FSL 530' FWL

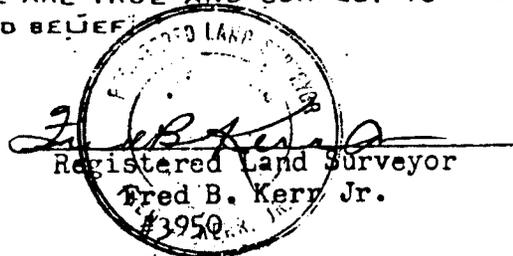
ELEVATION 4482' ungraded ground



SCALE—1 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:



SURVEYED September 23, 1985

FORMATION INFORMATION AND
DRILLING PRACTICES

CHUSKA ENERGY COMPANY
Navajo Tribal A No. 13-4
2140' FSL & 530' FWL
Section 4, T41S, R23E
San Juan County, Utah

1. Surface Formation: Bluff Sandstone

2. Estimated Formation Tops:

Chinle	1232'
DeChelly	2271'
Organ Rock	2363'
Hermosa	4215'
Upper Ismay	5131'
Lower Ismay	5261'
Desert Creek	5329'
T.D.	5500'

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

Oil 5329'

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% CaCl₂ + 1/4 lb. cellophane 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% CaCl₂. Cement will be brought to surface.
- 0-5500' 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% CaCl₂ + 10% salt + 0.8% fluid loss additive. Cement top at 4000'. Second stage tool at 2500'. Cement with 750 cu. ft. Class "B" with 4% gel. Cement to surface.

5. Pressure Control Equipment - Blow Out Preventor:

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

6. Drilling Fluids:

<u>DEPTH</u>	<u>TYPE</u>	<u>VIS.</u>	<u>WEIGHT</u>	<u>FLUID USAGE</u>
0-1600'	Gel-lime	35-45	9.0	Not controlled
1600-4000'	Gel-chem	35-45	9.5	15cc
4000-5500'	Low solids	45-50	10.0	9cc

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: IES, CNL, FDC
Mud: 4000' to T.D.

Testing: Possible in Lower Ismay and Desert Creek.

Coring: None planned.

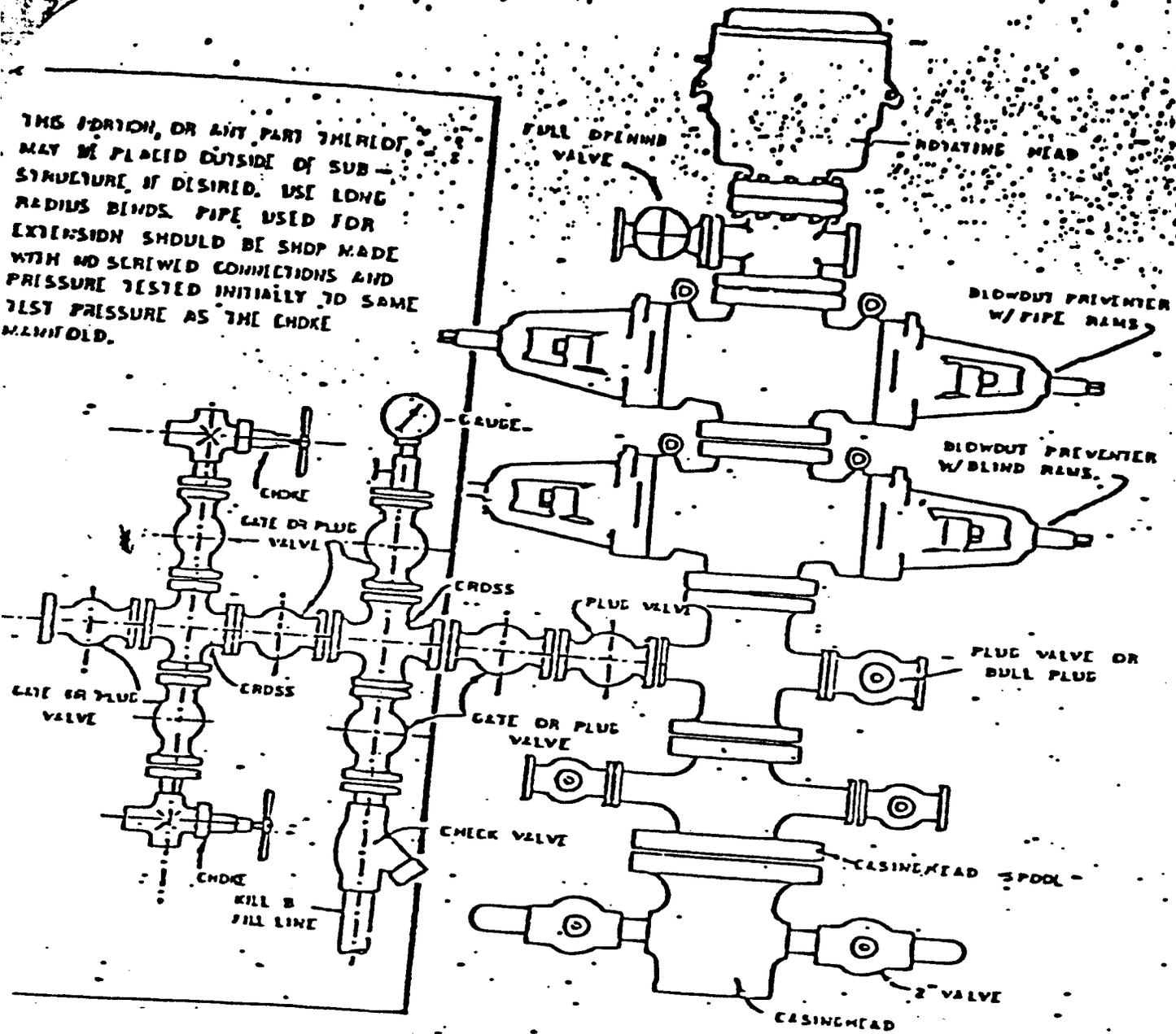
9. Abnormal Temperatures, Pressures or Potential Hazards:

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 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 NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKE MANIFOLD.



BLOWOUT PREVENTER HOOKUP

SURFACE USE PLAN

CHUSKA ENERGY COMPANY
Navajo Tribal A No. 13-4
2140' FSL & 530' FWL
Section 4, 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 North from the existing secondary road approximately 4000 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.

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 the 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:

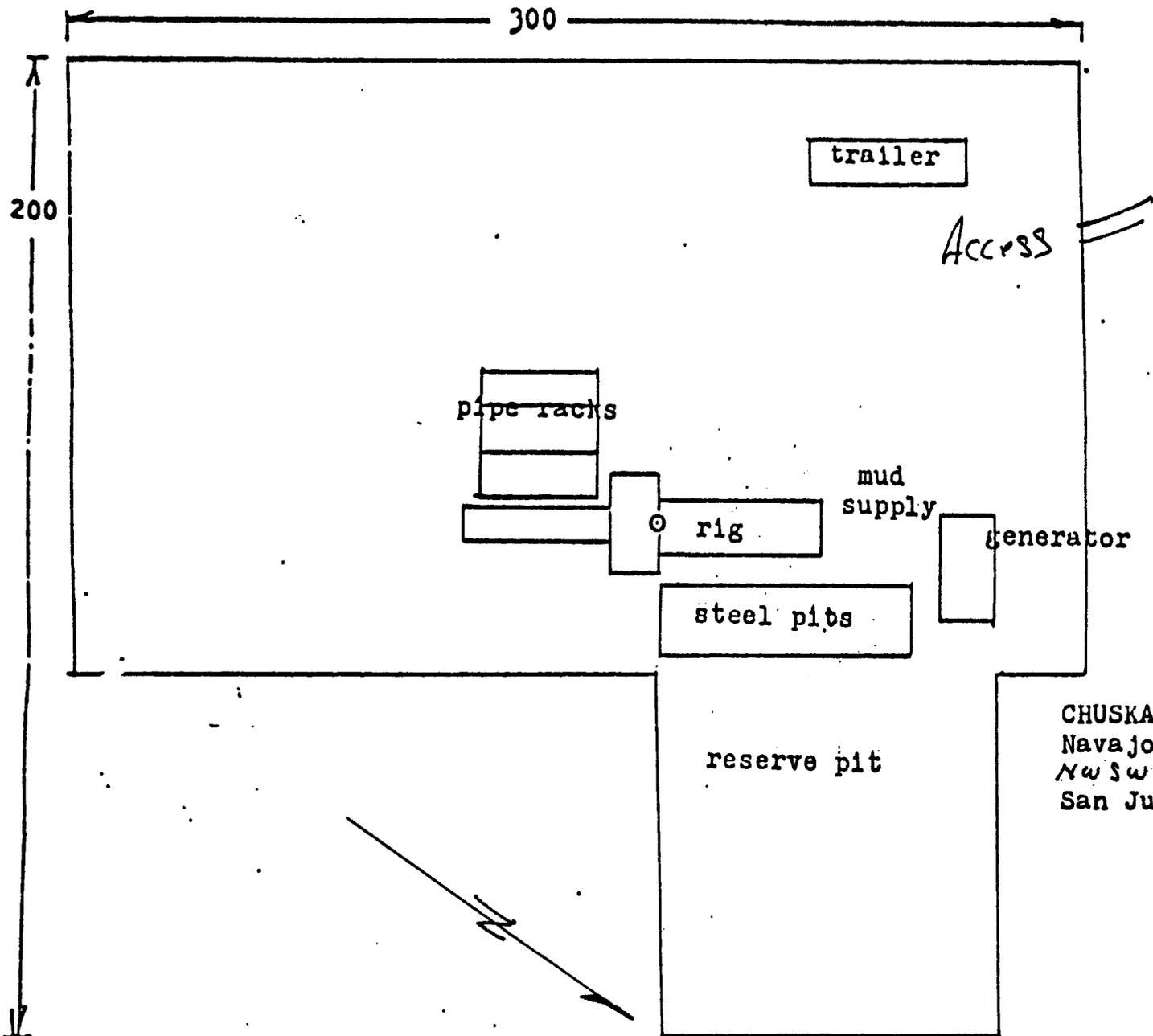
Restoration of the well site and access road will begin within 90 days of well completion, weather permitting, and if required by private land owner. Should well be abandoned, the drilling site will be reshaped to its approximate former contour. The access road will be plowed up and leveled. Both drill 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

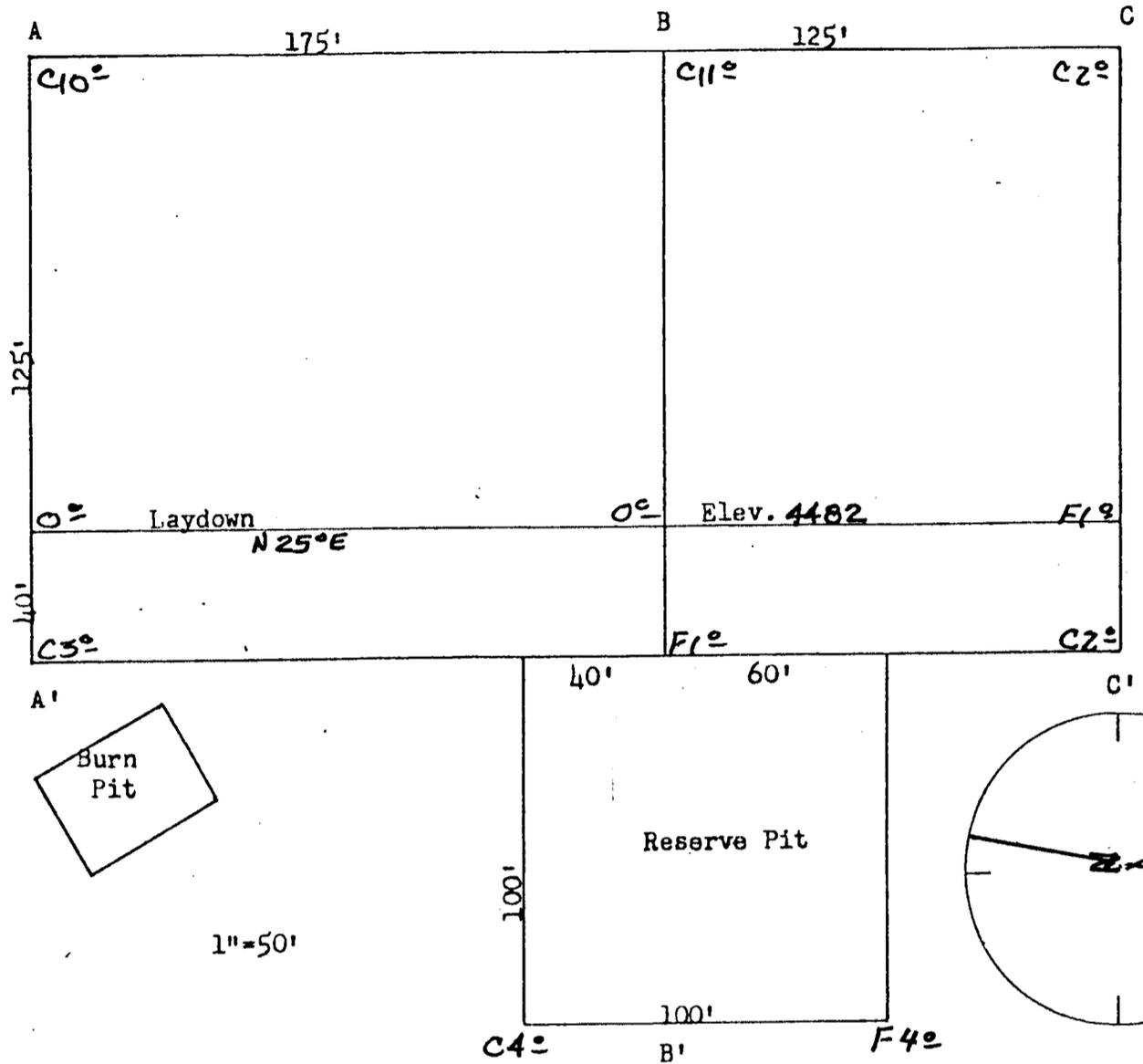
14. I hereby certify that I, or persons under by direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which presently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated 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 31, 1985

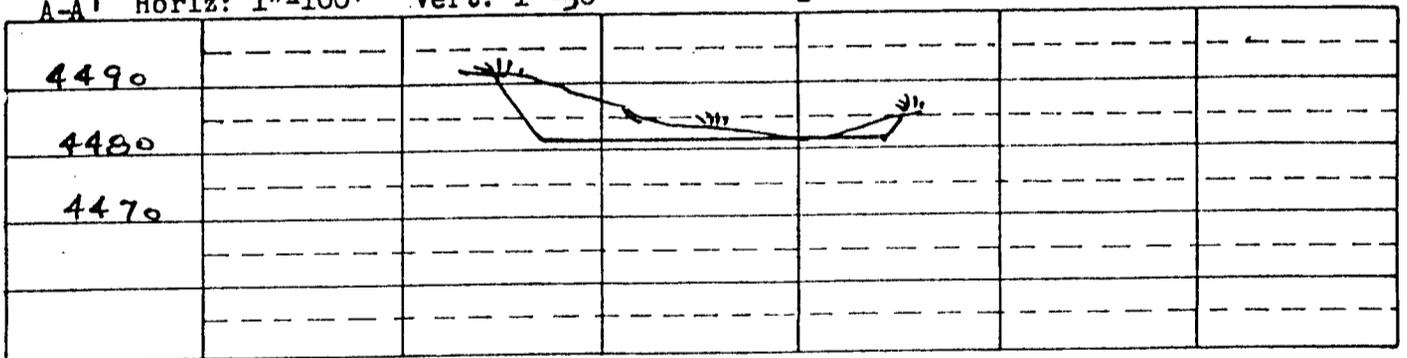


CHUSKA ENERGY CO.
Navajo Tribal A# 13-4
Nw Sw 4-4 S-23 E
San Juan, Utah

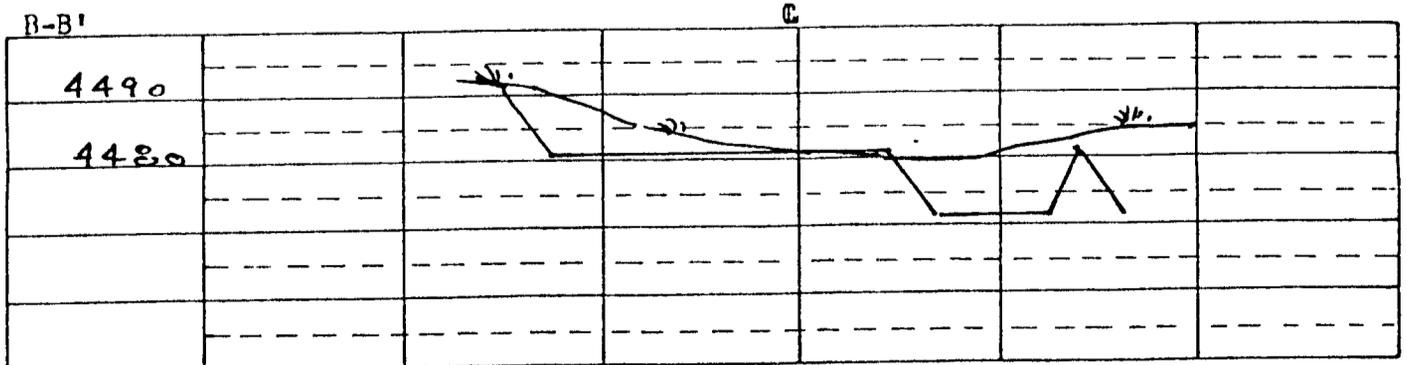
Profile for
 CHUSKA ENERGY COMPANY #13-4 NAVAJO TRIBAL "A"
 2140' FSL 530' FWL Sec. 4-T41S-R23E
 SAN JUAN COUNTY, UTAH



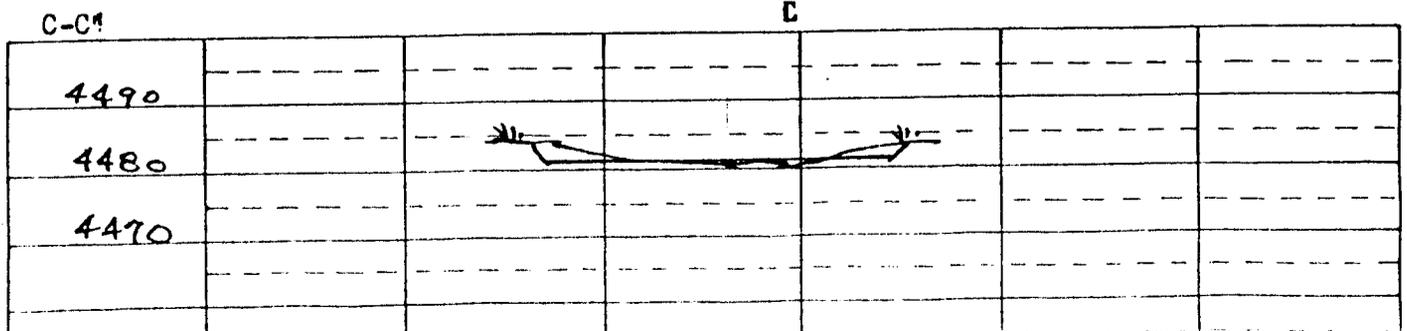
A-A' Horiz: 1"=100' Vert: 1"=30'

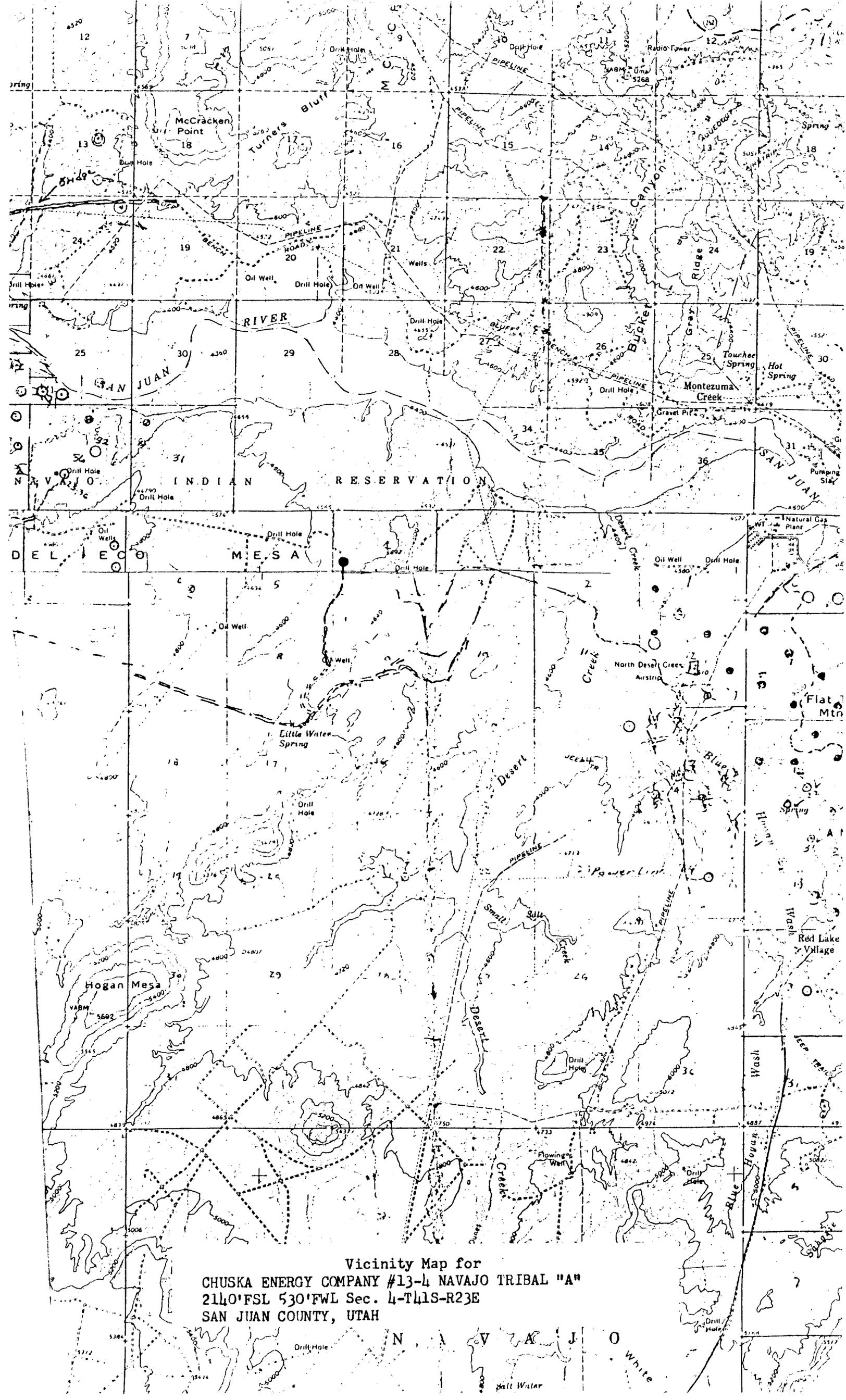


B-B'



C-C'





Vicinity Map for
 CHUSKA ENERGY COMPANY #13-4 NAVAJO TRIBAL "A"
 2140'FSL 530'FWL Sec. 4-T41S-R23E
 SAN JUAN COUNTY, UTAH

N A V A J O

White
 Salt Water

010707

OPERATOR Cohaska Energy Co.

DATE 11-5-85

WELL NAME Marys Fetal A 13-4

SEC NW SW 4 T 41S R 23E COUNTY San Juan

43-037-31215
API NUMBER

Indian
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD

POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other wells 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 13-4 - NW SW Sec. 4, T. 41S, R. 23E
2140' FSL, 530' 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:

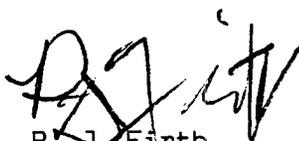
1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. 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 13-4
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 43-037-31215.

Sincerely,



R. J. Firth
Associate Director, Oil & Gas

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

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLICATE (Other instructions on reverse side)

Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.

NOG 8505-1087

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NAVAJO TRIBAL A

9. WELL NO.

13-4

10. FIELD AND POOL, OR WILDCAT

ANETH

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

4-41S-23E

12. COUNTY OR PARISH 13. STATE

San Juan Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL [X] GAS WELL [] OTHER []
2. NAME OF OPERATOR Chuska Energy Company
3. ADDRESS OF OPERATOR P. O. Box 2118, Farmington, NM 87499
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1920' FSL & 820' FWL
14. PERMIT NO. 4303731215
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4526'

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF [] FULL OR ALTER CASING []
FRACTURE TREAT [] MULTIPLE COMPLETE []
SHOOT OR ACIDIZE [] ABANDON* []
REPAIR WELL [] CHANGE PLANS [XX]
(Other) []

SUBSEQUENT REPORT OF:

WATER SHUT-OFF [] REPAIRING WELL []
FRACTURE TREATMENT [] ALTERING CASING []
SHOOTING OR ACIDIZING [] ABANDONMENT* []
(Other) []

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Operator intends to move location because of archaeological restrictions. New location is shown above. Original location was 2140' FSL & 530' FWL 4-41S-23E, San Juan County, Utah. All other points of the A.P.D. remain unchanged.

RECEIVED FEB 19 1986

DIVISION OF OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED John Alexander TITLE Vice-president DATE 2/17/86

(This space for Federal or State office use)

APPROVED BY TITLE DATE

ACCEPTED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

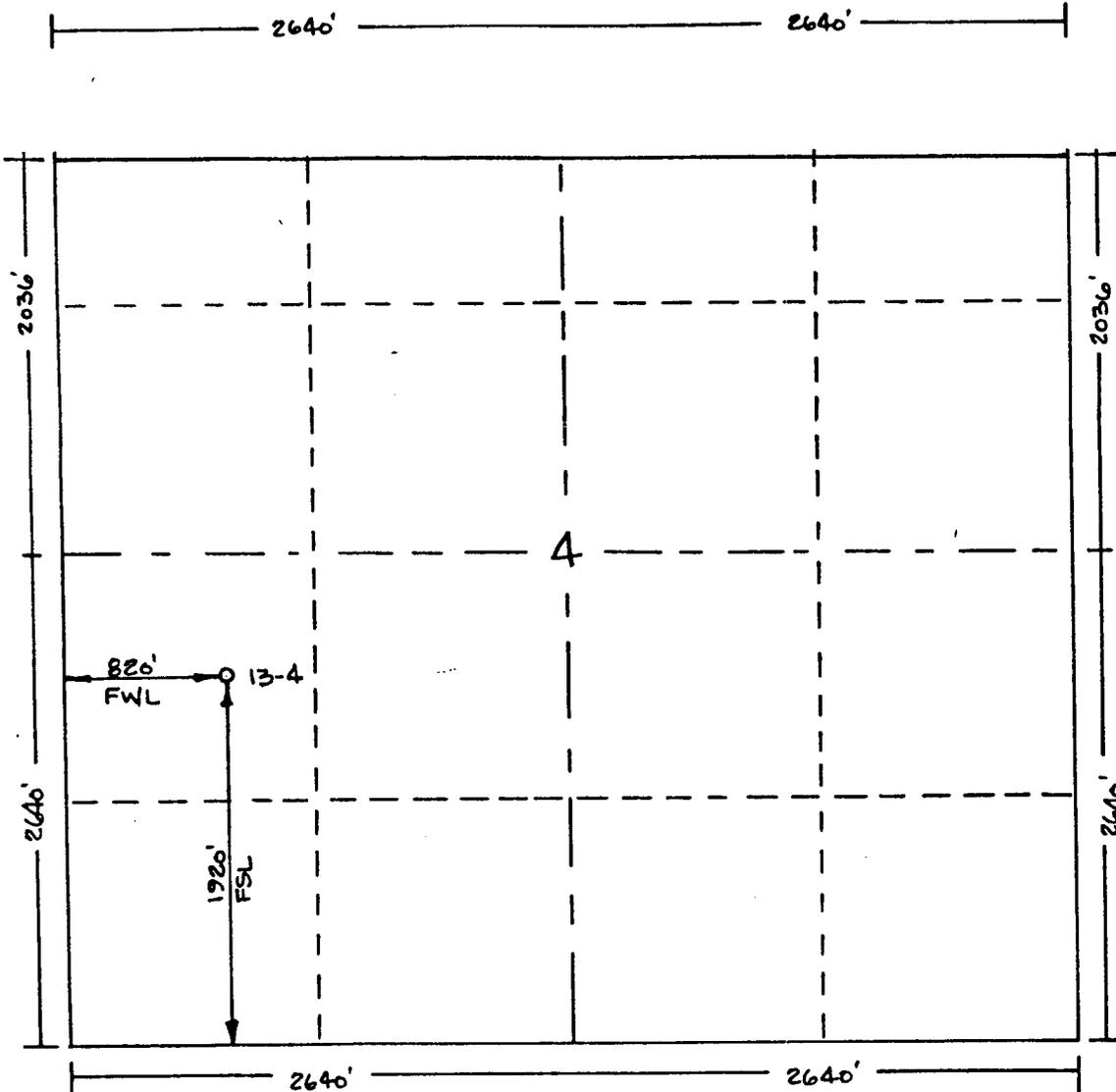
*See Instructions on Reverse Side

DATE 2-20-86

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any Department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



R. 23 E



T. 41 S

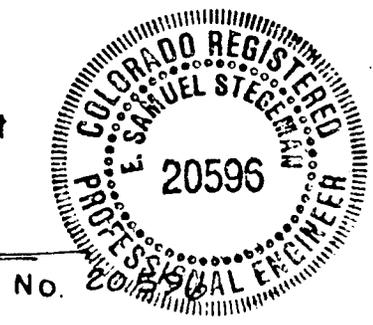
Scale... 1" = 1000'

Powers Elevation of Denver, Colorado
 has in accordance with a request from John Alexander
 for Chuska Energy Company
 determined the location of Navajo Tribal "A" 13-4
 to be 1920' FSL & 820' FWL of Section 4 Township 41 South
 Range 23 East of the SALT LAKE Meridian
 San Juan County, Utah.

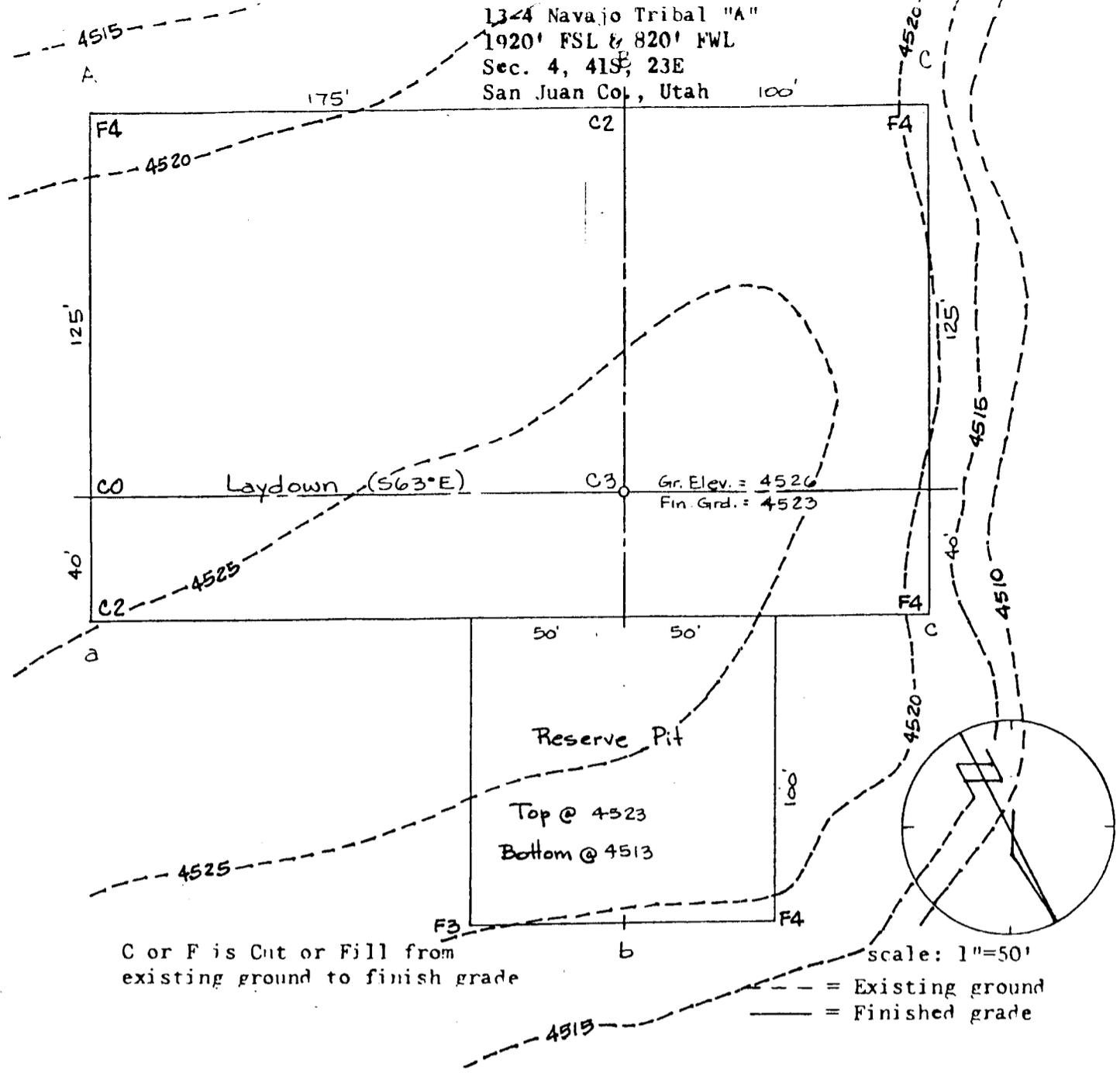
I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of

Date: Feb. 15, 1986

E. Samuel Stegeman
 Licensed Engineer
 State of Colorado



13-4 Navajo Tribal "A"
 1920' FSL & 820' FWL
 Sec. 4, 41S, 23E
 San Juan Co., Utah



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

scale: 1"=50'

--- = Existing ground
 — = Finished grade

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

4545					
4535		F4		C0 C2	
4525					
4515					
4505					

B-b C/L

4545					
4535					
4525		C2	C3	F3	
4515					
4505					

C-c C/L

4545					
4535		F4		F4	
4525					
4515					

NAME	ACTION CODE(S)	INTL
NORM		<i>JA</i>
TAMI	<i>3A</i>	<i>JA</i>
VICKY		<i>UC</i>
CLAUDIA	<i>1 chq ft.</i>	<i>JA</i>
STEPHANE	<i>X</i>	<i>JA</i>
CHARLES		<i>CP</i>
RULA		<i>ASM</i>
MARY ALICE		<i>MAY</i>
CONNIE		<i>CD</i>
MILLIE		<i>MS</i>
PAM	<i>FILE</i>	

Required Action Code

1. Data Entry
2. Filming
3. Posting
 - a. Card Index
 - b. File Label
 - c. Lists
4. Bonding Verification
5. Other (See Norm)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-037-31215

NAME OF COMPANY: CHUSKA ENERGY

WELL NAME: NAVAJO TRIBAL A 13-4

SECTION NW SW 4 TOWNSHIP 41S RANGE 23E COUNTY San Juan

DRILLING CONTRACTOR Aztec Well Service

RIG # 301

SPUDED: DATE 3-3-86

TIME 1:00 PM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY John Alexander

TELEPHONE # 505-326-5525

DATE 3-4-86 SIGNED AS

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPL
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8505-1087	
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
3. ADDRESS OF OPERATOR P. O. Box 2118, Farmington, New Mexico		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1920' FSL & 820' FWL		8. FARM OR LEASE NAME NAVAJO TRIBAL A	
14. PERMIT NO.		9. WELL NO. 13-4	
15. ELEVATIONS (Show whether DF, ST, GR, etc.) 5426' GR		10. FIELD AND POOL, OR WILDCAT ANETH	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 4-41S-23E	
		12. COUNTY OR PARISH SAN JUAN	13. STATE UTAH

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Drilled 12 1/4" hole to 1332'. Ran 8 5/8" 24 lb./ft. casing to 1328'. Cemented with 659 cu. ft. 65-35 poz mix containing 6% gel, 1/2 lb. D-29/Sk., followed by 354 cu. ft. Class "B" with 2% CaCl₂ and 1/2 lb. D-29/Sk. Cement returned to surface.

Job complete 3/05/86.

18. I hereby certify that the foregoing is true and correct

SIGNED John Alexander TITLE Vice-President DATE 3/06/86
(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
 CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

UPL

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. <input type="checkbox"/> OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER		5. LEASE DESIGNATION AND SERIAL NO. NOG 8505-1087
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO
3. ADDRESS OF OPERATOR P. O. Box 2118, Farmington, New Mexico 87499		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1920' FSL & 820' FWL		8. FARM OR LEASE NAME NAVAJO TRIBAL A
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) 4526' GR	9. WELL NO. 13-4
		10. FIELD AND POOL, OR WILDCAT ANETH
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 4-41S-23E
		12. COUNTY OR PARISH 13. STATE San Juan Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Spud 17 1/2" hole at 1300 hrs, 3/03/86. Aztec Well Service Rig #301 as contractor. Drilled to 74'. Ran 13 3/8" 54.50 lb./ft. casing to 74'. Cemented with 148 cu. ft. Class "B" with 3% CaCl₂ and 1/4 lb. D-29/Sk. Cement returned to surface. Job complete 0300 hrs. 3/04/86.

RECEIVED
MAR 14 1986

DIVISION OF
OIL, GAS & MINING

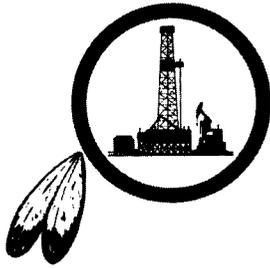
18. I hereby certify that the foregoing is true and correct

SIGNED John Alexander TITLE Vice-President DATE 3-05-86
John Alexander

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



CHUSKA ENERGY COMPANY

P.O. BOX 2118 • FARMINGTON, N.M. 87499 • PHONE: (505) 326-5525

March 25, 1986

Utah Oil & Gas Division
4241 State Office Building
Salt Lake City, Utah 84111

Attention: Mr. Norman Stout

RECEIVED
MAR 28 1986

**DIVISION OF
OIL, GAS & MINING**

Dear Mr. Stout:

Chuska recently logged the Navajo Tribal "A" 13-4 well located in the NW/4 SW/4 of Section 4, T41S, R23E, San Juan County, Utah. Please maintain the well logs on a confidential status for Chuska, for a period of time allowed for holding the logs.

Sincerely,

CHUSKA ENERGY COMPANY

Henry W. Haven, Jr. bc.

Henry W. Haven, Jr.,
Geologist

HWH/bc

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0135
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8505-1087	
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME NAVAJO	
3. ADDRESS OF OPERATOR P. O. Box 2118, Farmington, New Mexico 87499		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1920' FSL & 820' FWL		8. FARM OR LEASE NAME NAVAJO TRIBAL A	
14. PERMIT NO.		9. WELL NO. 13-4	
15. ELEVATIONS (Show whether DF, WT, GR, etc.) 4535' K.B.		10. FIELD AND POOL, OR WILDCAT ANETH	
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 4 - 41S - 23E	
		12. COUNTY OR PARISH SAN JUAN	13. STATE UTAH

16. **Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANE <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS** (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Drilled 7 7/8" hole to 5589' on 3/13/86. Ran DIL, CNL-FDC, Sonic, Dipmeter open hole logs. Ran DST #1 in Lower Ismay 5300'-5350'. Ran 5 1/2" 15.50 lb./ft. casing to 5574' and cemented in two stages.

Stage No. 1 439 ft.³ "self-stress" cement, 10% salt, 0.6% fluid loss.

Stage No. 2 above stage tool at 2550', 504 ft.³ 65-35 poz mix, 6% gel followed by 118 ft.³ Class "B".

Job complete 3/15/86.

RECEIVED
APR 03 1986

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

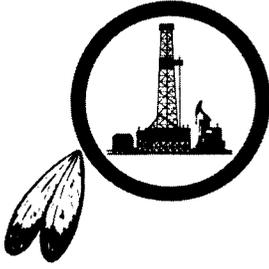
SIGNED John Alexander TITLE Vice-President DATE 3/27/86

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



CHUSKA ENERGY COMPANY

P.O. BOX 2118 • FARMINGTON, N.M. 87499 • PHONE: (505) 326-5525

April 4, 1986

Division of Oil, Gas, and Mining
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

Attention: Arlene Sollis

Re: Confidential Status, Navajo Tribal "A" 13-4

Gentlemen:

Please hold all information confidential on the following well:

Navajo Tribal "A" No. 13-4
NW SW Sec. 4, T41S, R23E
San Juan County, Utah

API 43-037-31215

Sincerely,

John Alexander bc.
John Alexander

JA/bc

RECEIVED
APR 07 1986

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved.
Budget Bureau No. 1004-0137
Expires August 31, 1985

12

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

b. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. RENVR Other _____

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 1920' FSL & 820' FWL
At top prod. interval reported below SAME
At total depth SAME

DIVISION OF OIL, GAS & MINING
DATE ISSUED APR 25 1986
14. PERMIT NO. 43-037-31215

5. LEASE DESIGNATION AND SERIAL NO.

NOG 8505-1087

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

NAVAJO TRIBAL A

9. WELL NO.

13-4

10. FIELD AND POOL, OR WILDCAT

ANETH

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

4 - 41S - 23E

12. COUNTY OR PARISH

SAN JUAN UTAH

13. STATE

15. DATE SPUNDED 3/03/86 16. DATE T.D. REACHED 3/13/86 17. DATE COMPL. (Ready to prod.) 4/04/86 18. ELEVATIONS (DF, RKB, RT, GB, ETC.)* 4535 19. ELEV. CASINGHEAD 4524

20. TOTAL DEPTH, MD & TVD 5585' 21. PLUG, BACK T.D., MD & TVD 5531 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS 0-5585 CABLE TOOLS 0

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 5314'-5330 Lower Ismay 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, CNL-FDC, Sonic, GR, SP, Caliper, Dipmeter 27. WAS WELL CORED No

28. CASING RECORD (Report all strings set in well)

CASINO SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
13 3/8	54.5	74	17 1/2	See attached	None
8 5/8	24.0	1328	12 1/4	See attached	None
5 1/2	15.5	5574	7 7/8	See attached	None

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
N/A					2 7/8	5395	N/A

31. PERFORATION RECORD (Interval, size and number) 5314'-5330' 0.35" 2 shots/ft.

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5314'-5330'	11,400 gal. 28%HCL acid
	12,190 gal. 40 lb./1,000 gelled water

33.* PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
4/06/86	Pumping	Producing					
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
4/08/86	24	N/A	→	48	43	25	1,000
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	
N/A	25	→	48	48	25	41	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) To be sold. TEST WITNESSED BY John Alexander

35. LIST OF ATTACHMENTS Cement 860507 cp

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
SIGNED John Alexander TITLE Vice-President DATE 4/22/86

*(See Instructions and Spaces for Additional Data on Reverse Side)

37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries):

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Lower Ismay	5300	5350	DST #1 recovery: 40 bbl. oil and gas cut mud, 30 bbl. oil, 2 bbl. water. 1st flow 15 min. 125 psi-274 psi 1st closed-in 30 min. 2077 psi 2nd flow 45 min. 274 psi-637 psi 2nd closed-in 90 min. 2013 psi

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Chinle	1345	
DeChelly	2391	
Organ Rock	2496	
Hermosa	4290	
Upper Ismay	5210	
Lower Ismay	5313	
Gothic Shale	5373	
Desert Creek	5412	
Chimney Rock	5518	
Akah	5541	
Salt	5582	
T.D.	5585	

CHUSKA ENERGY CO.
Navajo Tribal A No. 13-4

CEMENTING REPORT

Attachment to Form 3160-4

13 3/8"	54.5 lb.	74'	148 cu.ft Class "B" w/ 3% CaCl ₂ . Cement returned to surface.
8 5/8"	24 lb.	1332'	659 cu.ft. 65- 35 Pozmix w/ 6% gel and 1/2 lb. D-29/sk; followed by 354 cu.ft. Class "B" with 2% CaCl ₂ and 1/2 lb. D-29. Cement returned to surface.
5 1/2"	15.5 lb	5574'	Stage 1: 439 cu.ft. "Self-Stress" cement with 10% salt, 0.6% fluid loss. Stage 2: 504 cu.ft. 65-35 Pozmix, 6% gel followed by 118 cu.ft. Class "B".

stage tool: 2550'

Cement tops by bond log:

stage 1: 4310'

stage 2: 2225'

STATE OF UTAH
 DEPARTMENT OF NATURAL RESOURCES
 DIVISION OF OIL, GAS AND MINING
 4241 State Office Building
 Salt Lake City, UT 84114

RECEIVED
 APR 25 1986

Copy

DIVISION OF
 OIL, GAS & MINING

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Navajo Tribal A # 13-4
 Operator Chuska Energy Co. Address P. O. Box 2118
Farmington, NM 87499
 Contractor Aztec Well Service Address P. O. Box 100
Aztec, NM 87410
 Location NW 1/4 SW 1/4 Sec. 14 T. 41S R. 23E County San Juan

Water Sands NONE

	<u>Depth</u>		<u>Volume</u>	<u>Quality</u>
	<u>From</u>	<u>To</u>	<u>Flow Rate or Head</u>	<u>Fresh or Salty</u>
1.	NONE			
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

<u>Formation Tops</u>	Chinle	1345'	Upper Ismay	5210'	
	DeChelly	2391'	Lower Ismay	5313'	
	Organ Rock	2496'	Gothic Shale	5373'	
	Remarks	Hermosa	4290'	Desert Creek	5412'
				T.D.	5585'

- NOTE: (a) Report on this form as provided for in Rule C-20, General Rules and Regulations and Rules of Practice and Procedure.
- (b) If a water analysis has been made of the above reported zone, please forward a copy along with this form.



CHUSKA ENERGY COMPANY

3315 BLOOMFIELD HIGHWAY • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

P.O. BOX 780 • FARMINGTON, NEW MEXICO 87499

21 September, 1990

RECEIVED
SEP 24 1990

DIVISION OF
OIL, GAS & MINING

State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
355 West North Temple
3 Triad Building, Suite 350
Salt Lake City, Utah 84180-1203

Ref: Sundry Notice: Plug and Abandon

Navajo Tribal A 22-34
Navajo Tribal 14-25
Navajo Tribal A 3323-24
Navajo Tribal A 13-4

Gentlemen

Attached for your examination and approval are the originals and two copies of the subject Sundry Notices.

Please advise if you require additional information concerning these submissions.

Sincerely,

Larry G. Sessions
Larry G. Sessions
Operations Manager

LGS/csw
File: C:\WP51\NTP&A\SUNCOVER

encl.

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT--" for such proposals.)

SEP 24 1990

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. NOG 8505-1087
2. NAME OF OPERATOR Chuska Energy Company		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
3. ADDRESS OF OPERATOR P.O. Box 780, Farmington, New Mexico 87499		7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1920' FSL, 820' FWL		8. FARM OR LEASE NAME Navajo Tribal A
At proposed prod. zone Same		9. WELL NO. 13-4
14. PERMIT NO. 43-037-31215	15. ELEVATIONS (Show whether DF, RT, GR etc.) 4,526' GR	10. FIELD AND POOL, OR WILDCAT Aneth
		11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA S4 T41S R23E
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	(Other) _____
(Other) _____		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log Form)	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION	5-25-90

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS: (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

Commenced plugging operations 5-23-90 with Navajo West Rig 533. POH rods and pump. Nippled up BOPE. POH tubing. Set cement retainer at 5,263'. Pumped Plug #1 (50 sx Class 'G') below retainer. Sting out of retainer and spotted 9.3 ppg mud 5,263' - 4,349'. Set Plug #2 (35 sx Class 'G') 4,349' - 4,049'. Spotted 9.3 ppg mud from 4,049' - 2,250'. Perforated 2 shots at 2,200'. Unable to establish circulation. Perforated 2 shots at 1,378' and established circulation. Pumped Plug #3 (35 sx Class 'G') from 2,250' - 1,950'. Spotted 9.3 ppg mud from 1,950' - 1,370'. Pumped Plug #4 (500 sx 50:50 Pozmix cement) down casing and up 8 5/8" x 5 1/2" annulus to surface. Cut off casing and installed plate and dry hole marker. Plugging operations completed 5-25-90. Subsequently completed rehabilitation of location 6-17-90.

* Must be accompanied by a cement verification report.

18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Petroleum Engineer DATE 21 September, 1990

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

See Instructions On Reverse Side