

**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 Co.

3. ADDRESS OF OPERATOR
c/o 3E Co. Inc., Box 190 Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)
 At surface 1740' FSL & 840' FEL

At proposed prod. zone Same

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

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

16. NO. OF ACRES IN LEASE
5120

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
5800

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4700 GL

22. APPROX. DATE WORK WILL START*
July 16, 1984

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4	8 5/8	24	500	See attached cement information
7 7/8	5 1/2	15.5	5800	

SEE ATTACHED

RECEIVED

JUL 16 1984

DIVISION OF OIL
GAS & MINING

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

DATE: 7/20/84
 BY: John R. Bay

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 Agent DATE July 11, 1984
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

*See Instructions On Reverse Side

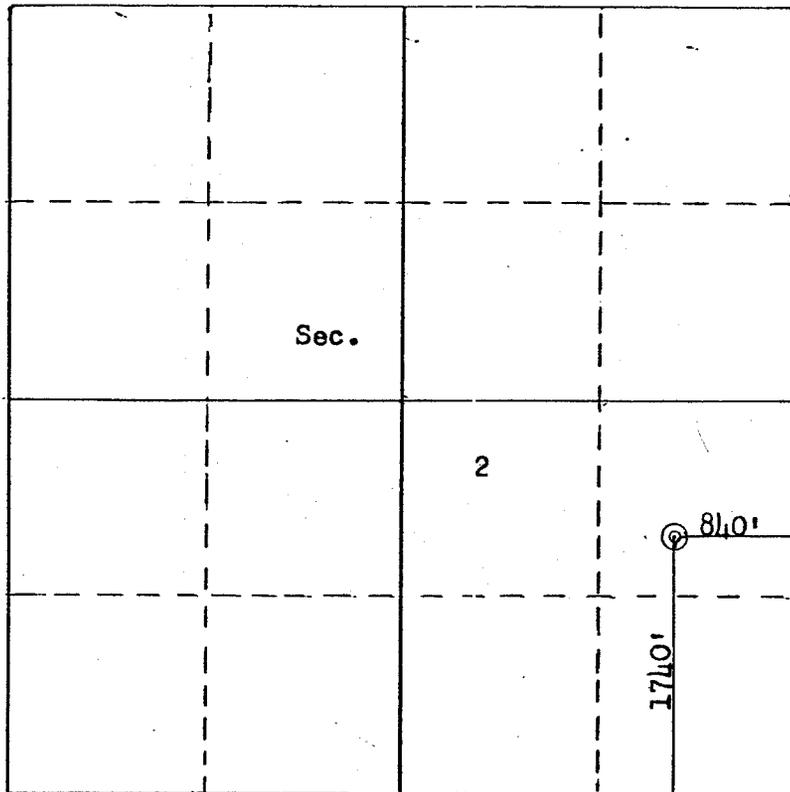
COMPANY USKA ENERGY COMPANY

LEASE NAVAJO TRIBAL WELL NO. 43-2

SEC. 2 T. 42S R. 24E
San Juan County, Utah

LOCATION 1740' FSL 840' FEL

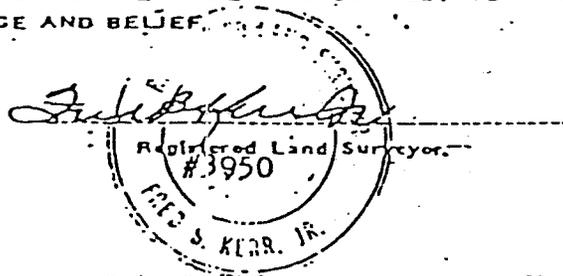
ELEVATION 4700 ungraded ground



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:



SURVEYED June 29 19 84

FORMATION INFORMATION AND
DRILLING PRACTICES

CHUSKA ENERGY CO.
Navajo Tribal No. 43-2
1740' FSL and 340' FEL
Sec 2, 42S, 24E
San Juan Co., Utah

1. Surface Formation: Bluff Sandstone.

2. Estimated Formation Tops:

Dechelly	2730'
Organ Rock	2820'
Hermosa	4636'
Upper Ismay	5476'
Lower Ismay	5596'
Desert Creek	5636'
T. D.	5800'

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

Oil	5596'
Oil	5636'

4. Proposed Casing Program:

0-100' 8 5/8", 24 lb/ft, ST & C K-55 new casing; cement with 300 cubic feet Class "B" + 2% CaCl₂. Cement will be brought to surface.

0-5800'T.D. 5 1/2", 15.5 lb/ft, ST & C, K-55 new casing; cement with 450 cubic feet 50-50 poz mix + 2% CaCl₂ + 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:

<u>DEPTH</u>	<u>TYPE</u>	<u>VIS.</u>	<u>WEIGHT</u>	<u>FLUID LOSS</u>
500-4000'	Gel-chem	35-45	9.5	15cc
4000-5800'	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

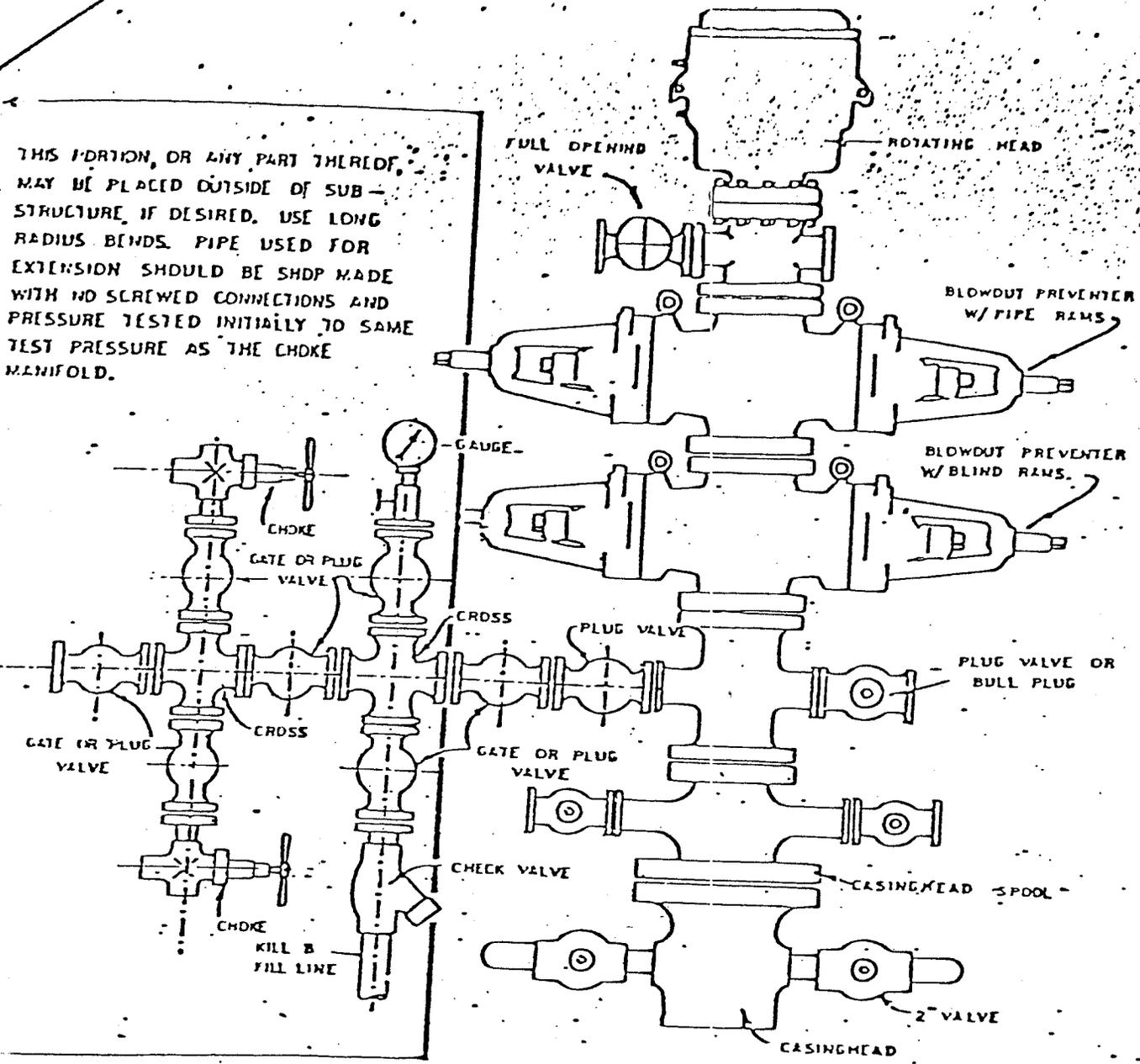
9. Abnormal Temperatures, Pressures or Potential Hazards:

None Expected

10. Starting Date:

Anticipated starting date is July 16, 1984. 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 SHDP MADE WITH NO SCREWED CONNECTIONS AND PRESSURE TESTED INITIALLY TO SAME TEST PRESSURE AS THE CHOKER MANIFOLD.



BLOWOUT PREVENTER HOOKUP

SURFACE USE PLAN

CHUSKA ENERGY CO.
Navajo Tribal No. 43-2
1740' FSL and 840' FEL
Sec 2, 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. The access road will join an existing location.

2. Planned Access Road (shown in red)

The new access road will run from an existing well site. Maximum grade will be 10%. Water bars will be used to prevent erosion. Approximately 1200' of new road will be required.

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, 7 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 nonburnable 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.

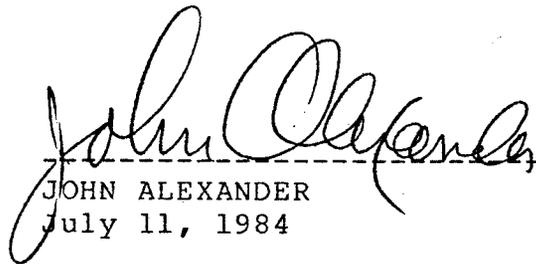
11. Plans for Restoration of Surface

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 drillsite 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 nonburnable 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.

12. This location is 7 miles south of the San Juan River. It is gently sloping to the southeast. The area is covered with native weeds and grasses. The area is developed as an oil field at this time. No artifacts were found in the area. There are no residences near the site.

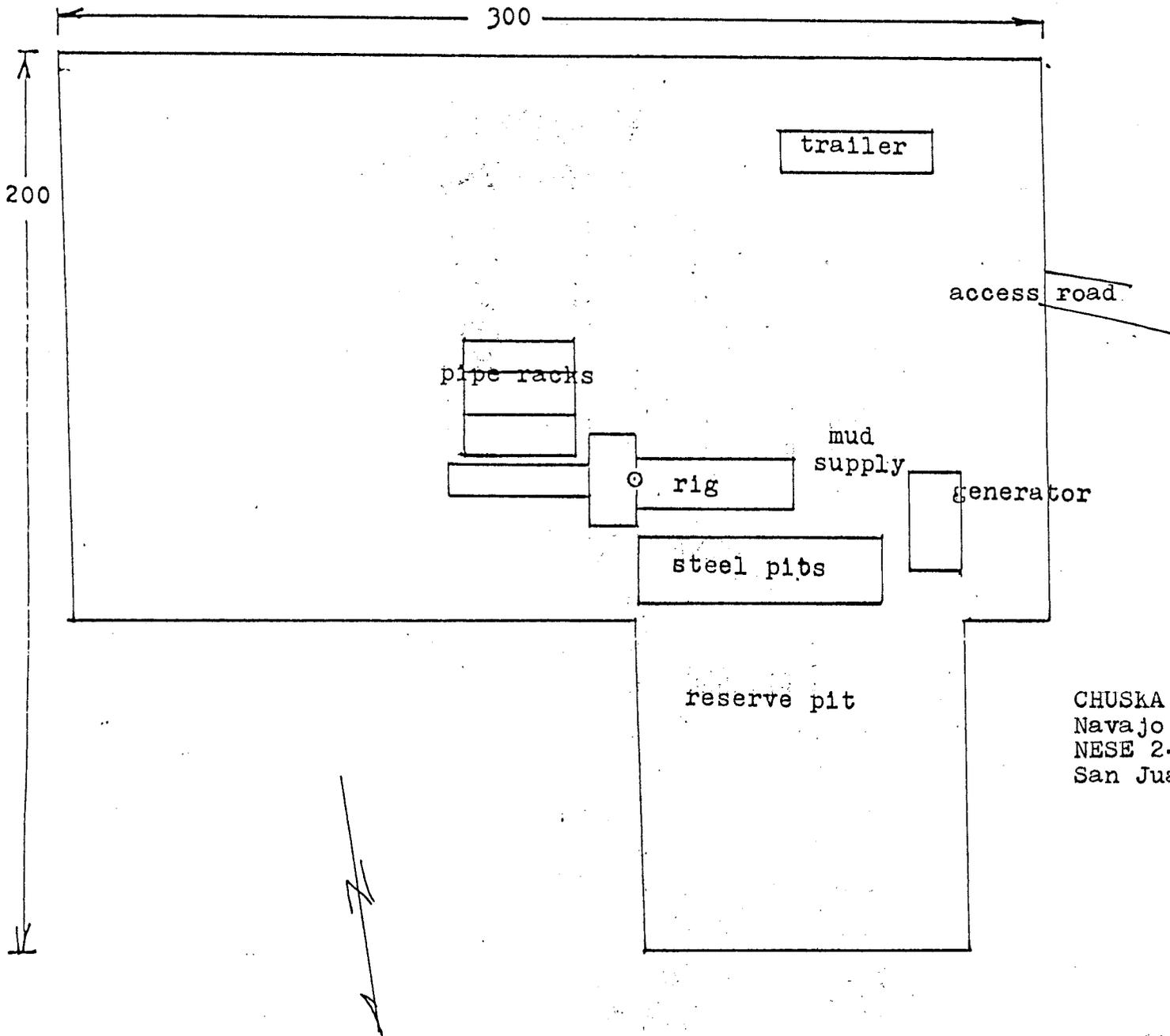
13. John Alexander
3E Company, Inc.
P.O. Box 190
Farmington, NM 87499
Phone: 505-326-1135

14. I hereby certify that I, or persons under by direct supervision, have inspected the proposed drillsite 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.



JOHN ALEXANDER
July 11, 1984

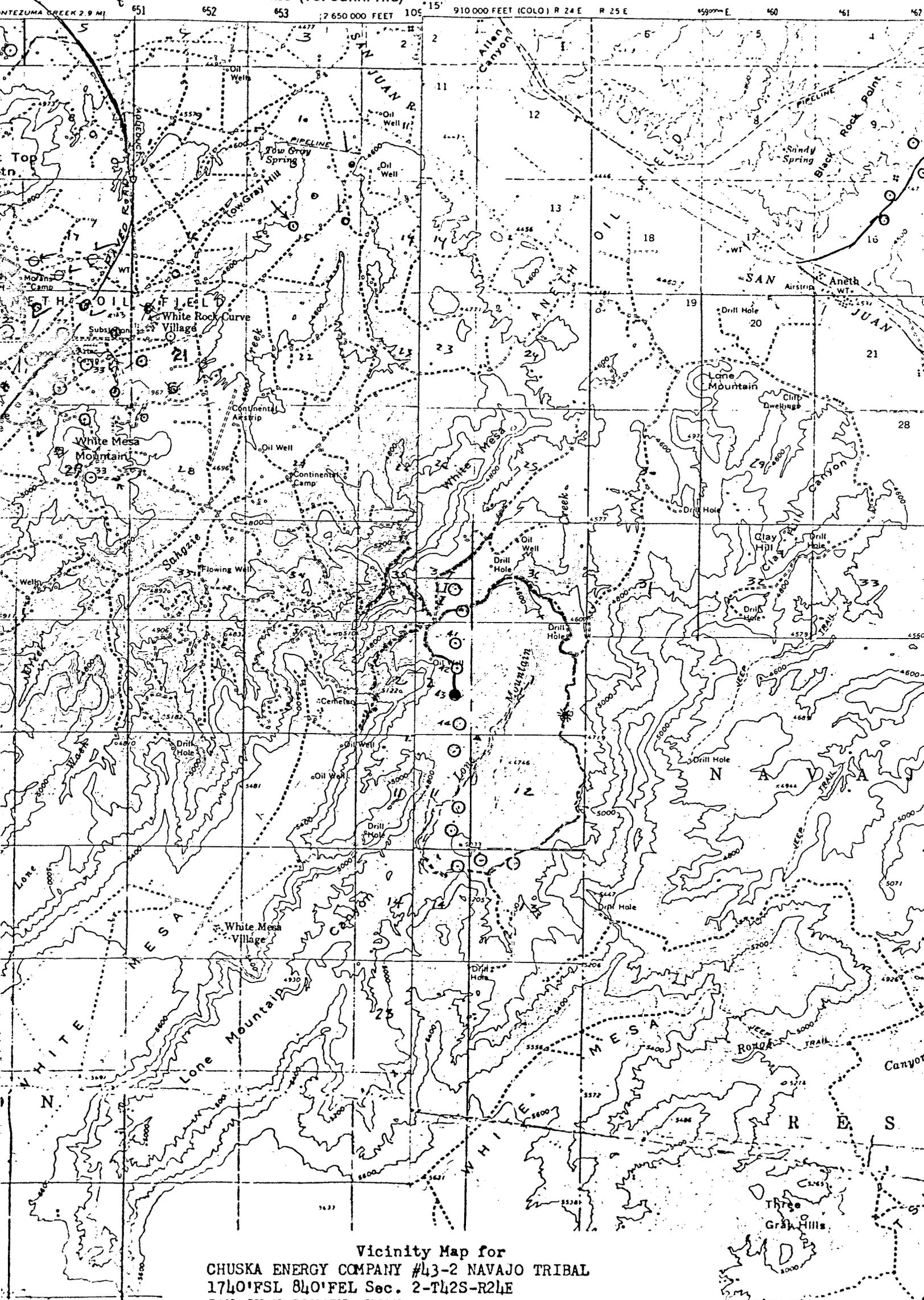
JA:kj



CHUSKA ENERGY CO.
Navajo Tribal 43-2
NESE 2-42S-24E
San Juan, Utah

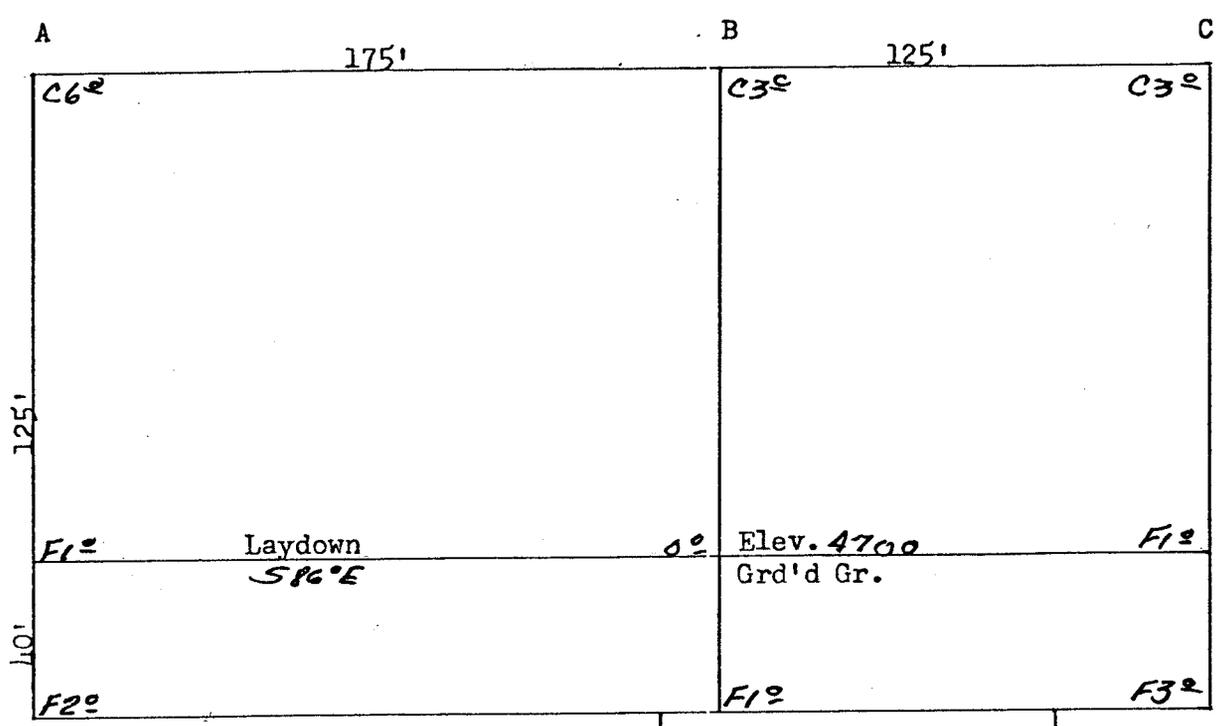
WHITE MESA VILLAGE QUADRANGLE
UTAH
15 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

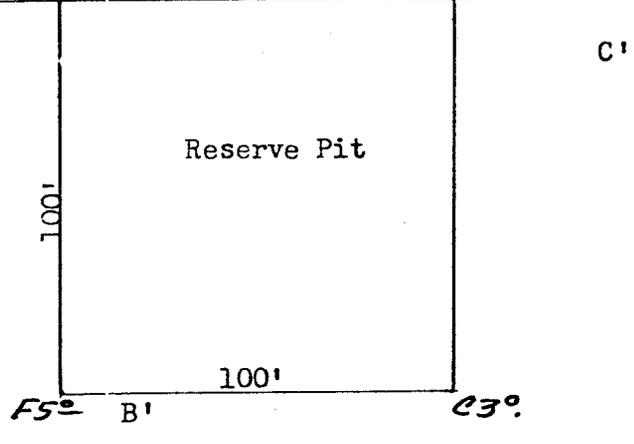
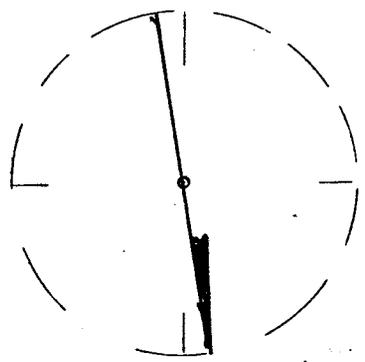


Vicinity Map for
CHUSKA ENERGY COMPANY #43-2 NAVAJO TRIBAL
1740'FSL 840'FEL Sec. 2-T42S-R24E
SAN JUAN COUNTY, UTAH

Profile for
 CL KA ENERGY COMPANY #43-2 NAVAJO TRIBAL
 1740' FSL 840' FEL Sec. 2-T42S-R24E
 SAN JUAN COUNTY, UTAH



A' Scale: 1"=50'



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

4710						
4700						
4690						

B-B' C/L

4710						
4700						
4690						

C-C' C/L

4710						
4700						
4690						

OPERATOR Chuska Energy DATE 7-19-84

WELL NAME Navajo Tribal 43-2

SEC NE SE 2 T 42S R 24E COUNTY San Juan

43-037-31042
API NUMBER

Indian
TYPE OF LEASE

POSTING CHECK OFF:

<input type="checkbox"/>	INDEX	<input type="checkbox"/>	HL	<input type="checkbox"/>
<input type="checkbox"/>	NID	<input type="checkbox"/>	PI	<input type="checkbox"/>
<input type="checkbox"/>	MAP	<input type="checkbox"/>		<input type="checkbox"/>

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

SPECIAL LANGUAGE:

1 - Water
2 - Exception loc.
3 - BOP equip. - see other Chuska wells

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER _____

UNIT _____

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 20, 1984

Chuska Energy Company
c/o 3E Company, Inc.
P. O. Box 190
Farmington, New Mexico 87499

RE: Well No. Navajo Tribal 43-2
1740' FSL, 840' FEL
NESE Sec. 2, T. 42S, R. 24E
San Juan County, Utah

Gentlemen:

Approval to drill the above referenced oil well is hereby granted in accordance with Rule C-3(c), 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.
2. Submittal to the Division of information justifying the necessity for an exception location and verification of ownership within a radius of 660 feet of the proposed location.
3. Blowout preventin equipment with a minimum of 3100 psi working pressure should be used after drilling out of 8 5/8" casing.

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 OCC-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. Reza, Petroleum Engineer, (Office) (801) 533-5771, (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

Chaska Energy Company

Well No. Navajo Tribal 43-2

July 20, 1984

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 43-037-31042.

Sincerely,



M. J. Firth
Associate Director, Oil & Gas

RJI/as

cc: Branch of Fluid Minerals
Bureau of Indian Affairs

Enclosures

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 — 505/326-1135

FARMINGTON, NEW MEXICO 87499

July 16, 1984

RECEIVED

JUL 23 1984

DIVISION OF OIL
GAS & MINING

Division of Oil, Gas and Mining
4241 State Office Building
Salt Lake City, UT 84114

ATT: District Engineer

RE: Request for unorthodox location
Chuska Energy Co.

Gentlemen:

Chuska Energy Company requests an unorthodox location for their No. 43-2 Navajo Tribal at 1740' FSL and 840' FEL S.2-T.42S-R24E San Juan County, Utah.

The request is made on topography and archaeological sites at legal locations in the tract.

Offsetting operator has been notified by certified mail of this request. They have been asked to waive a hearing in this matter.

Attached to this letter is a topographic map of the well site, a plat showing all offset operators and the surveyors plat of the location.

Please direct inquiries of this request to my attention at the letterhead address.

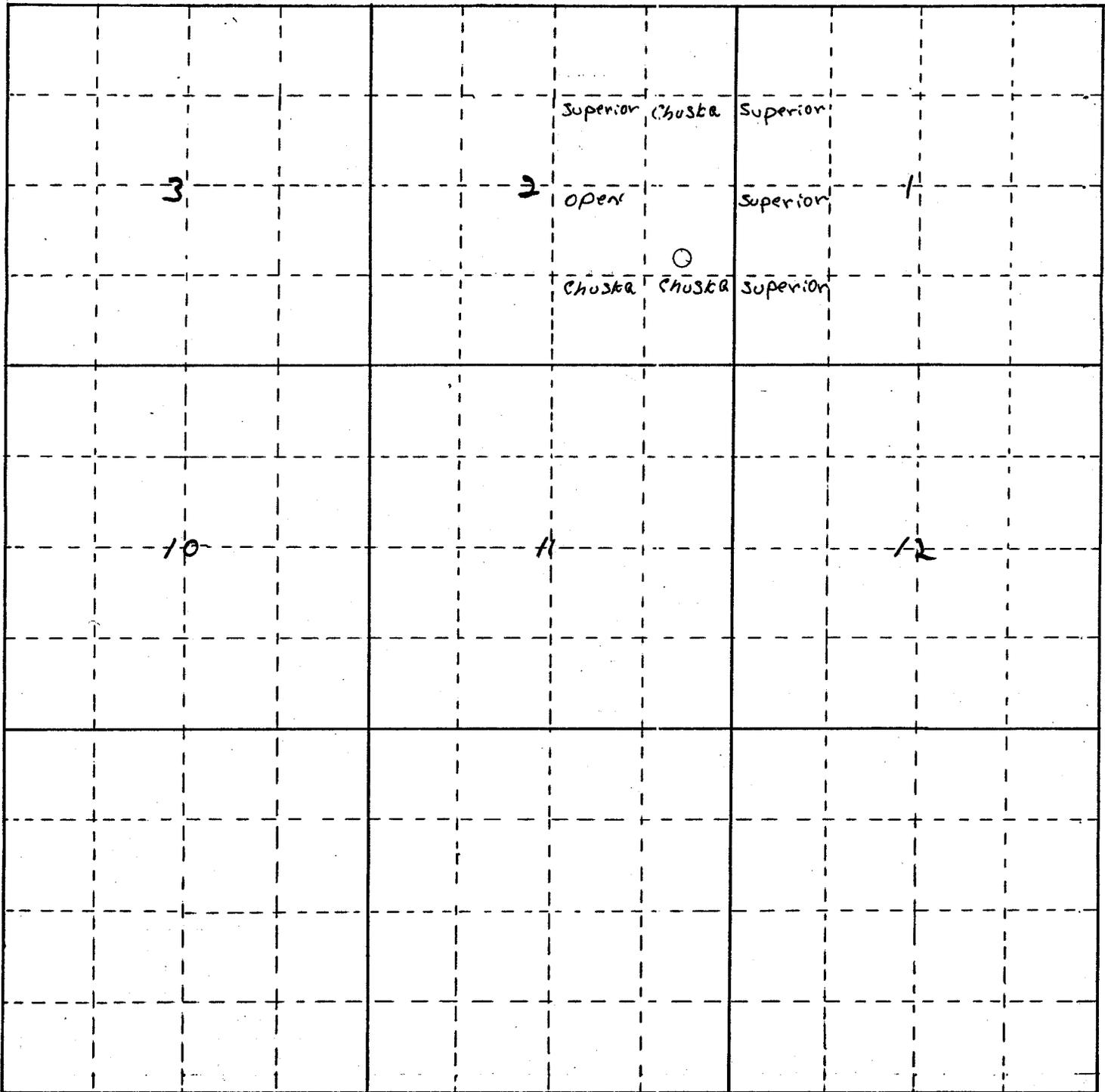
Sincerely,



John Alexander
Agent for Chuska Energy Co.

sh

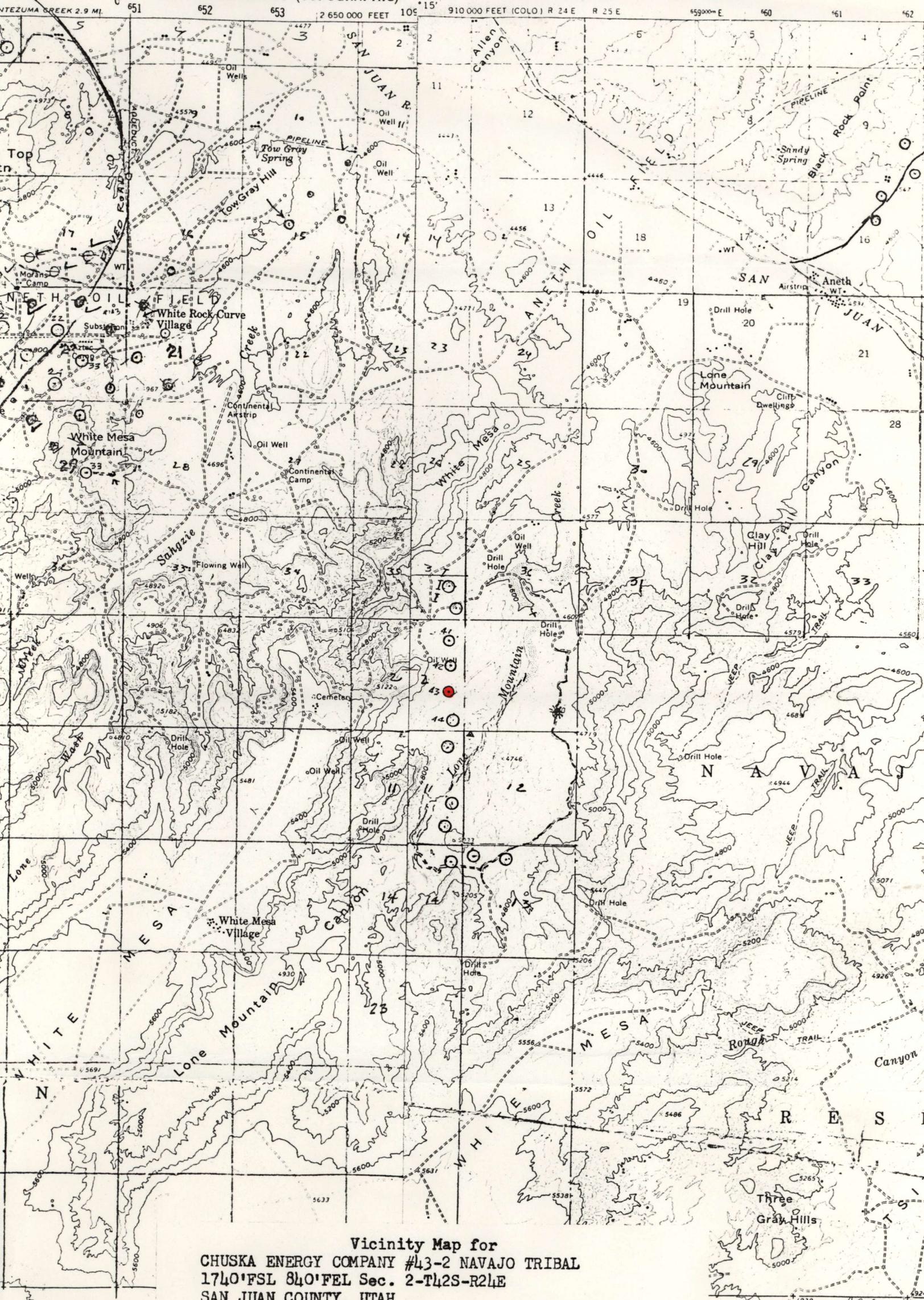
Enclosure



○ subject well

OFFSET operators
 Chuska Energy Co.
 Navajo Tribal # 43-2
 1740' FSL & 840' FEL
 S. 2 - T. 42 S - R. 24 E
 SAN JUAN CO., UTAH

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



Vicinity Map for
CHUSKA ENERGY COMPANY #43-2 NAVAJO TRIBAL
1740'FSL 840'FEL Sec. 2-T42S-R24E
SAN JUAN COUNTY, UTAH

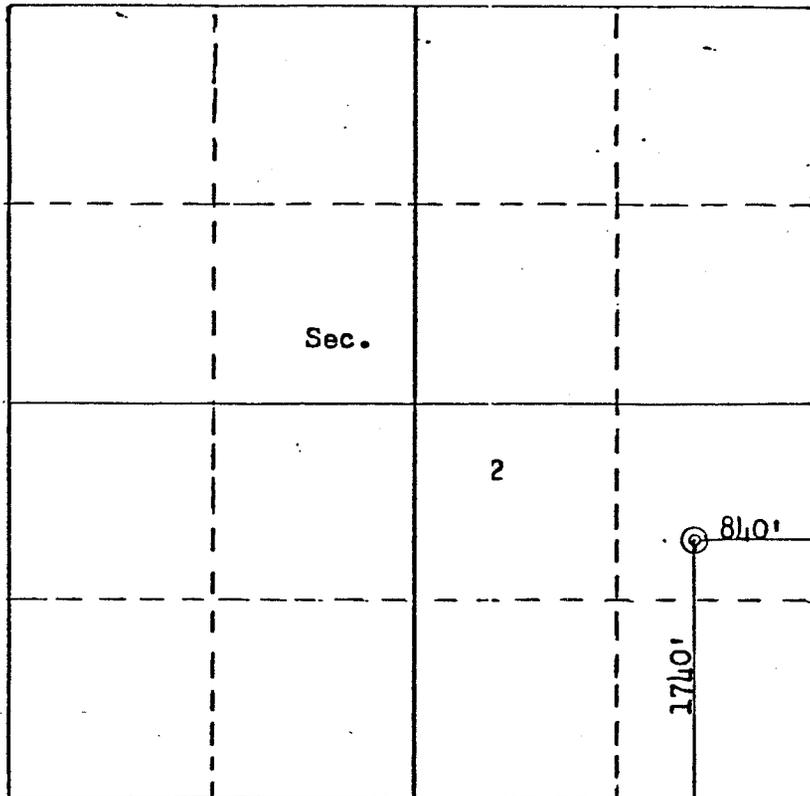
COMPANY ISKA ENERGY COMPANY

LEASE NAVAJO TRIBAL WELL NO. 43-2

SEC. 2, T. 42S, R. 24E
San Juan County, Utah

LOCATION 1740' FSL 840' FEL

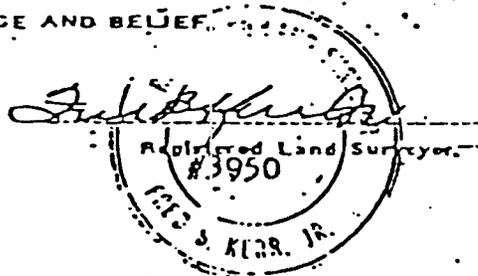
ELEVATION 4700 ungraded ground



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



SURVEYED June 29 1984

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.)

5. 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.
43-2

10. FIELD AND POOL, OR WILDCAT
Aneth

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

12. COUNTY OR PARISH
San Juan

13. STATE
Utah

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Chuska Energy Co.

3. ADDRESS OF OPERATOR
c/o 3E Company, PO Box 190, Farmington, NM 87499

RECEIVED

AUG 20 1984

DIVISION OF OIL
GAS & MINING

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 2440' FSL & 570' FEL
At Top Prod Interval: Same
At Total Depth: Same

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

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

NOTICE OF INTENTION TO:

SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

PULL OR ALTER CASING

WATER SHUT-OFF

REPAIRING WELL

FRACTURE TREAT

MULTIPLE COMPLETE

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

(Other)

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

(Other) Move location

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 to that above. Original location was 1740' FSL & 840' FEL S.2-T.42S-R24E San Juan Co., Utah. This site is non-standard due to archaeology. The appropriate state application will be made.

All other facets of the drilling application remain unchanged.

A new plat, vicinity map and "cut and fill" are attached.

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

DATE: 10/23/84
BY: John R. Buja

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

SIGNED

John Alexander
John Alexander

TITLE

Agent

DATE August 15, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

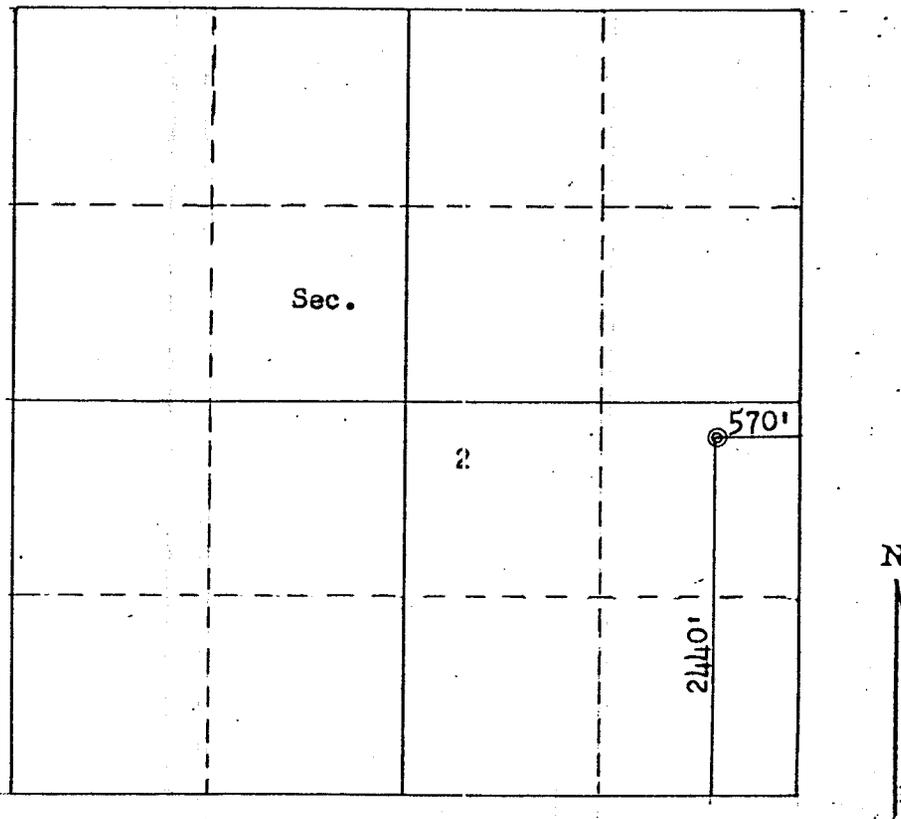
COMPANY CHUSKA ENERGY COMPANY

LEASE NAVAJO TRIBAL WELL NO. 43-2

SEC. 2, T 42S, R 24E
San Juan County, Utah

LOCATION 2440'FSL 570'FEL

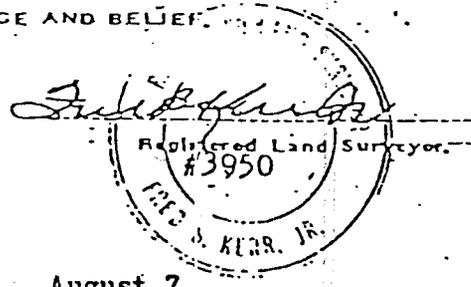
ELEVATION 4689 ungraded ground



SCALE—4 INCHES EQUALS 1 MILE

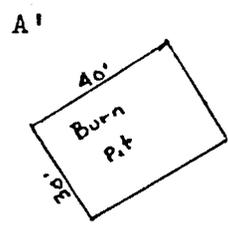
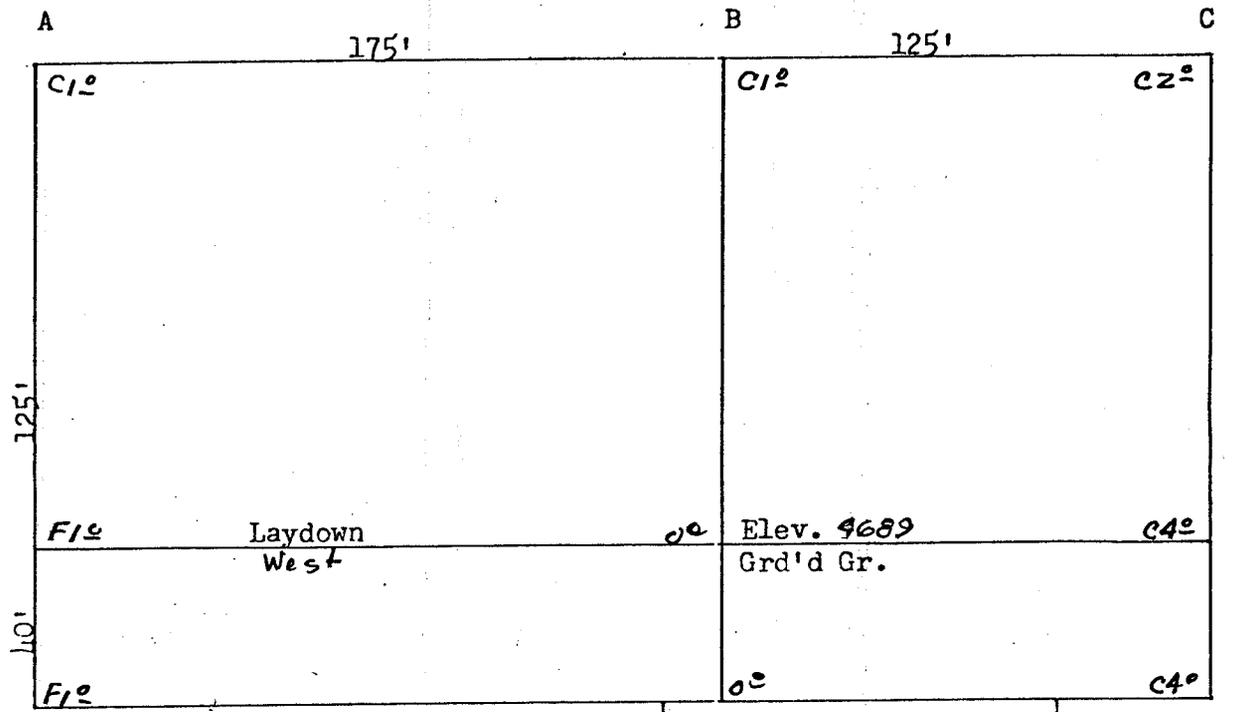
THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTE OF ACTUAL SURVEYS MADE BY ME UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

SEAL:

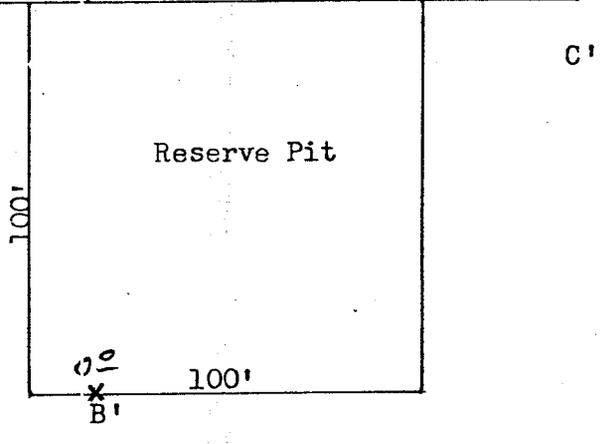
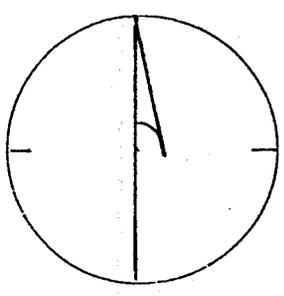


SURVEYED August 7 1984

Profile for
 CHUSK ENERGY COMPANY #43-2 NAVAJO TRIPAL
 2440' L 570' FEL Sec. 2-T42S-R24E
 SAN JUAN COUNTY, UTAH



Scale: 1"=50'



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

4690					
4680					

B-B' C/L

4690					
4680					

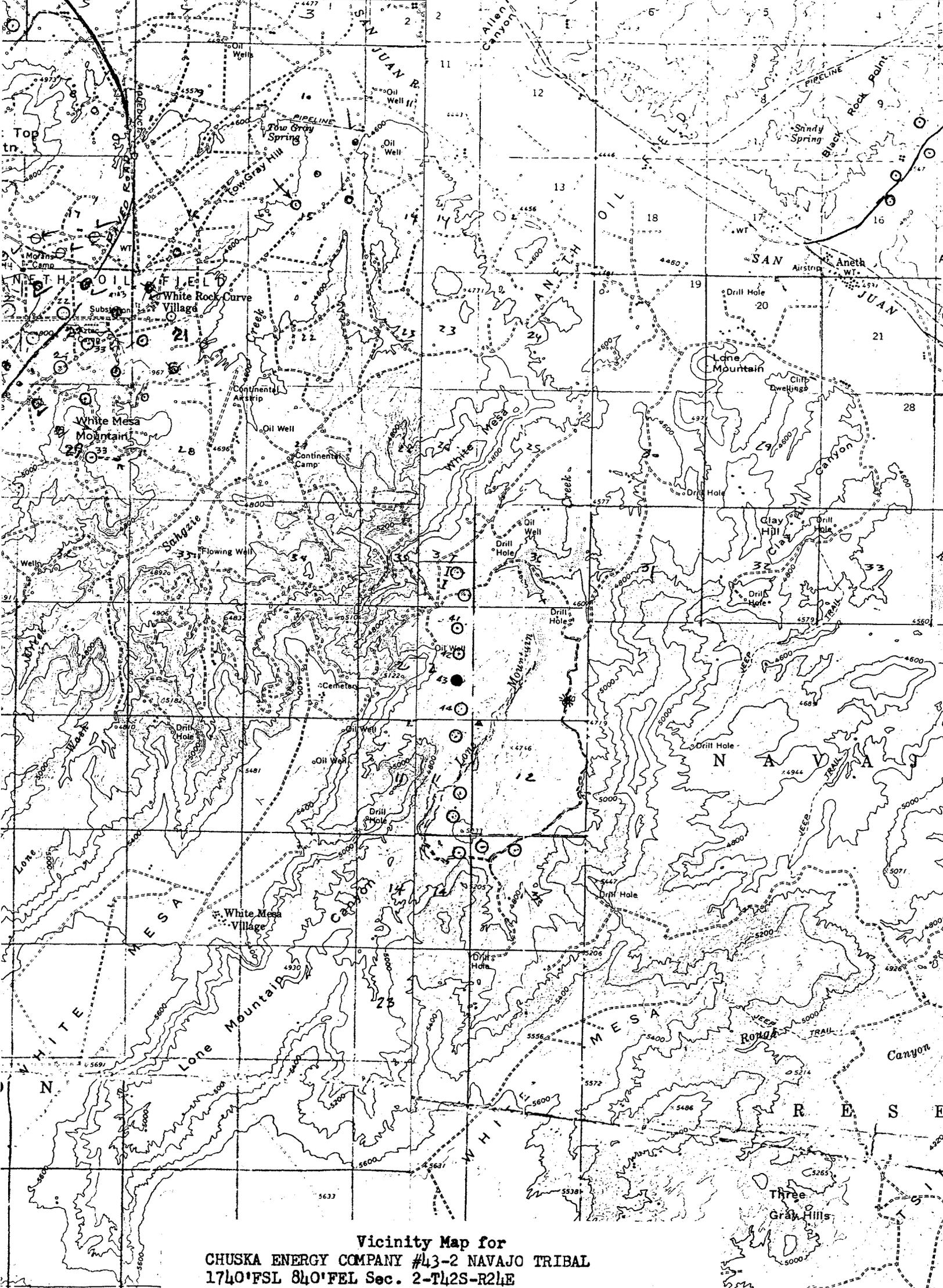
C-C' C/L

4690					
4680					

WHITE MESA VILLAGE QUADRANGLE
UTAH
15 MINUTE SERIES (TOPOGRAPHIC)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

INTEZUMA CREEK 2.9 MI. 651 652 653 2 650 000 FEET 10' 15' 910 000 FEET (COLO) R 24 E R 25 E 659000 E 660 661 662



Vicinity Map for
CHUSKA ENERGY COMPANY #43-2 NAVAJO TRIBAL
1740'FSL 840'FEL Sec. 2-T42S-R24E
SAN JUAN COUNTY, UTAH

3E COMPANY, INC.

Engineering • Energy • Exploration

P. O. Box 190 -- 505/326-1135

FARMINGTON, NEW MEXICO 87499

July 16, 1984

The Superior Oil Co.
Drawer G
Cortez, CO 81321

ATT: Land Department

RE: Request for unorthodox location
Chuska Energy Co.

RECEIVED

OCT 22 1984

DIVISION OF OIL
GAS & MINING

Gentlemen:

Chuska Energy Company is requesting an unorthodox location for their No. 43-2 Navajo Tribal at 1740' FSL and 840' FEL S.2-T.42S-R.24E San Juan County, Utah.

This request is made on topography and archaeological sites at the legal locations in the 40 acre tract. Attached is a topographic map showing the site, the surveyors plat, and a plat showing offset operators to the tract.

We ask that you waive a hearing on this matter by signing one copy of this letter and returning it in the enclosed envelope.

Please direct inquiries on this matter to my attention at the letterhead address.

Sincerely,

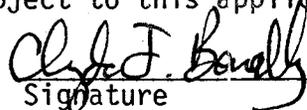


John Alexander
Agent for Chuska Energy Co.

sh

Enclosure

The Superior Oil Co. does not object to this application.


Signature

7-27-84
Date

Environmental Coordinator
Name and title (typed)

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

5. 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.
43-2

10. FIELD AND POOL, OR WILDCAT
Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec 2, 42S, 24E

12. COUNTY OR PARISH | 13. STATE

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.)

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Chuska Energy Co.

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
2500' FSL & 660' FEL
Bottom Hole
2440' FSL & 570' FEL

14. PERMIT NO. | 15. ELEVATIONS (Show whether DF, RT, GR, etc.)

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 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"/>	
(Other) <input checked="" type="checkbox"/> Move Surface Location		(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.)*

To avoid archaeological sites, the operator intends to move the surface location to that above. The hole will be directionally drilled to the original location of 2440' FSL & 570' FEL. All other aspects of the application are unchanged.

RECEIVED
DEC 10 1984

APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING
DATE: 12/13/84
BY: John R. Durr

DIVISION OF
OIL, GAS & MINING

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

SIGNED John Alexander TITLE Agent DATE 12/4/84

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

API #43-037-31042

NAME OF COMPANY: CHUSKA ENERGY

WELL NAME: NAVAJO TRIBAL #43-2

SECTION NE SE 2 TOWNSHIP 42S RANGE 24E COUNTY San Juan

DRILLING CONTRACTOR Coleman

RIG # 4

SPUDDED: DATE 12-30-84

TIME 6:30 PM

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY Ralph Stoane

TELEPHONE # 505-326-1135

DATE 12-31-84 SIGNED AS

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

5. 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.

43-2

10. FIELD AND POOL, OR WILDCAT

Aneth

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

2-42S-24E

12. COUNTY OR PARISH

San Juan

13. STATE

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.)

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Chuska Energy Co.

3. ADDRESS OF OPERATOR

c/o 3E Co. Inc., Box 190 Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)

At surface 2500' FSL & 660' FEL
Bottom hole: 2440' FSL & 570' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 96' of 17 1/2" conductor hole. Set 96' of 13 3/8" 54.50 # per foot casing. Cemented with 150 sacks Class "B" containing 1/4# per sack cellophane + 2% CaCl2. Left 15' of cement in bottom of pipe. Circulated 20 sacks to surface.

RECEIVED
JAN 07 1985

DIVISION OF
OIL, GAS & MINING

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

SIGNED

R. G. Sloane Jr.

TITLE

Agent

DATE

12/31/84

(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

5. 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.
43-2

10. FIELD AND POOL, OR WILDCAT
White Mesa

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
2-41S-24E

12. COUNTY OR PARISH
San Juan

13. STATE
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.)

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
Chuska Energy Co.

3. ADDRESS OF OPERATOR
c/o 3E Company Box 190 Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
2500' FSL & 660' FEL
Bottom hole: 2440' FSL & 570' FEL

14. PERMIT NO. _____ 15. ELEVATIONS (Show whether DF, RT, CR, etc.)
4702 K.B.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other) _____

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other) _____

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(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.)*

The operator, Chuska Energy Co., has plugged and abandoned the Navajo Tribal 43-2 on January 16, 1985. Ran 4 1/2" drill pipe open ended and spotted Class "B" cement plugs as follows:

Interval - ft.	Cu. Ft. Cement	Formation
5150-5250	55 across	Upper Ismay top
4284-4387	71 across	Hermosa top
2342-2442	110 across	De Chelly top
1368-1468	44	Surface casing shoe
0-62	20	Surface

Dry hole marker was set.

**ACCEPTED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
DATE: 2/8/85
BY: *John R. Buse*

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

SIGNED: *Bret D. Cook* TITLE: Agent DATE: 1/22/85
(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 THIS MANNER
(Other instructions on reverse side)

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

5. 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.

43-2

10. FIELD AND POOL, OR WILDCAT

White Mesa

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

2-41S-24E

12. COUNTY OR PARISH 13. STATE

San Juan

Utah

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED

(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.)

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

Chuska Energy Co.

3. ADDRESS OF OPERATOR

c/o 3E Co. Box 190 Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface

2500' FSL & 660' FEL
Bottom Hole: 2440' FSL & 570' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, OR, etc.)

4702 KB

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 and 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.)*

The operator, Chuska Energy Co., intends to plug and abandon the Navajo 43-2. The Class "B" cement plugs are to be spotted through open ended 4 1/2" drill pipe as follows:

Interval - Ft.	Cu. Ft. Cement	Formation
5170-5270	55 across	Upper Ismay top
4310-4410	71 across	Hermosa top
2362-2462	110 across	De Chelly top
1374-1474	44	Surface casing shoe
0-60	20	surface

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

DATE: 2/8/85
BY: [Signature]

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

SIGNED

[Signature]
Bret D. Cook

TITLE

Agent

DATE

1/22/85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

TERRA SERVICES, INC.

1645 COURT PLACE, SUITE 218 • DENVER, COLORADO 80202
303/534-2871

RECEIVED

January 28, 1985

FEB 03 1985

**DIVISION OF OIL
GAS & MINING**

Mr. Norman Stout
Utah Oil Division
4241 State Office building
Salt Lake City, Utah 84111

Dear Mr. Stout

Enclosed is your final copy of the Well Log covering Chuska Energy Company:

Navajo Tribal No. 43-2
Sec. 2, T42S, R24E
San Juan County, Utah

Should you have any questions pertaining to this Well Log or any other matter which we can be of assistance, please contact us.

Sincerely,

Joel R. Parise
Vice President
Sales and Operations

JRP:mh

TERRA SERVICES, INC.

1645 COURT PLACE, SUITE 218 • DENVER, COLORADO 80202
303/534-2871

RECEIVED

FEB 08 1985

CHUSKA ENERGY COMPANY

DIVISION OF OIL
GAS & MINING

Navajo Tribal No. 43-2
Section 2, Township 42 South, Range 24 East
San Juan County, Utah

Prepared by:

TERRA SERVICES, INC.
1645 Court Place, Suite 218
Denver, Colorado 80202

Supervisors: Joel Parise
Steve Szekula

Loggers: Mark E. Mumby
Roger L. Levin

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CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

WELL DATA

A. OPERATOR

Chuska Energy Company
P.O. Box 2118
Farmington, New Mexico 87199

B. WELL

Navajo Tribal No. 43-2

C. LOCATION

2500' FSL 660' FEL (Surface Location)
2400' FSL 570' FEL (Proposed Bottom Hole Location)
Section 2, Township 42 South, Range 24 East
San Juan County, Utah

D. FIELD

Greater Aneth (White Mesa Unit)

E. ELEVATION

Ground Elevation: 4686'
Kelly Bushing: Elev. 4700'

F. CONTRACTOR

Coleman Drilling, Rig No. 4
Farmington, New Mexico

Pusher: D. Vestal

G. COMPANY REPRESENTATIVE

3E Company, Inc.
P.O. Box 190
Farmington, New Mexico

(505) 326-1135

Representative: R. Sloan

H. WELLSITE GEOLOGIST

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

Geologist: J.H. Pudliner

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

WELL DATA, continued

I. MUDLOGGING COMPANY

Terra Services, Inc.
1645 Court Place, Suite 218
Denver, Colorado 80202

(303) 534-2871

Logging Services: Terra Services commenced logging on January 9, 1985 at 8:20 hours M.S.T. at a depth of 4300' and completed logging procedures on January 15, 1985 at 13:30 hours M.S.T. at a driller depth of 5578'. Two-man unit with hotwire and chromatograph. Released on January 16, 1985 at 1:00 hours M.S.T.

J. MUD COMPANY

Hunter Mud Company
3006 North Sullivan
Farmington, New Mexico

Engineer: John Hunter

K. SPUD DATE

December 30, 1984

L. COMPLETED DRILLING DATE AND STATUS

13:30 hours (M.S.T.) January 15, 1985. Recommending to plug and abandon, pending Lower Ismay potential.

M. DRILL PIPE

4-1/2" Grade E 16.6 lbs/ft, Thread type XH, Tool Joint 6-1/4" O.D.
Collars: 6-1/4"

N. MUD PUMPS

1. O.P.I. 700 Stroke Length 6" X 8"
2. Wilson 600 Stroke Length 14"

O. CASING PROGRAM (SURFACE)

Ran 2 Joints 13-3/8" Set at 60' (conductor pipe)
Ran 35 Joints 8-5/8" ST & C 24 lbs/ft set at 1417'

P. TOTAL DEPTH

Driller Depth: 5577' Strap Out 5580'
E-Log Depth: 5582'

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

WELL DATA, continued

Q. ELECTRIC LOG COMPANY

Dresser Atlas
Farmington, New Mexico

Engineer: -

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

SURVEY RECORD

<u>DATE</u>	<u>DEPTH</u>	<u>DEV/DIR</u>	<u>TYPE</u>
12-31-84	96'	1/4°	Wireline
1-1-85	389'	1/2°	Wireline
	891'	1/4°	Wireline
	1424'	3/4°	Wireline
1-2-85	None Taken		
1-3-85	1930'	1/4°	Wireline
	2419'	3/4°	Wireline
1-4-85	2914'	3/4°	Wireline
	3236'	1°	Wireline
1-5-85	None Taken		
1-6-85	3452'	3/4° N83E	Wireline
	3482'	3/4+° N88E	Wireline
	3576'	1-1/2+° S37E	Wireline
	3634'	1-1/2° S41E	Wireline
	3666'	1-1/2° S42E	Wireline
	3756'	1-3/4° S46E	Wireline
	3847'	1-1/2° S42E	Wireline
1-7-85	3900'	1-1/2° S40E	Wireline
	3977'	2° S50E	Wireline
1-8-84	4068'	2° S42E	Wireline
	4131'	2° S37E	Wireline
	4159'	2° S39E	Wireline
	4220'	2° S37E	Wireline
1-9-85	4246'	2° S37E	Wireline
	4277	2-1/4° S40E	Wireline
	4304'	2-1/2° S50E	Wireline

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

SURVEY RECORD, continued

<u>DATE</u>	<u>DEPTH</u>	<u>DEV/DIR</u>	<u>TYPE</u>
1-10-85	4334'	3-1/4° S46E	Wireline
	4431'	4° S54E	Wireline
1-11-85	4557'	4° S52E	Wireline
	4618'	4° S53E	Wireline
1-12-85	4708'	4° S55E	Wireline
	4771'	3-3/4° S54E	Wireline
1-13-85	4925'	3° S52E	Wireline
	5051'	3-1/4° S54E	Wireline
1-14-85	5135'	3-1/4° S54E	Wireline
	5196'	3° S53E	Wireline
	5290'	3° S50E	Wireline
1-15-85	5409'	2-1/2° S46E	Wireline
	5534'	2-1/2° S47E	Wireline

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>DEPTH IN</u>	<u>DEPTH OUT</u>	<u>FEET DRILLED</u>	<u>HOURS DRILLED</u>	<u>FEET/ HOUR</u>
1	17-1/2"	STC	OS-Jrr	Surface	96'	96'	4-1/2	21.3
2	12-1/4"	REED	FP5lrr	96'	1424'	1328'	18-1/2	71.7
3	7-7/8"	Sandvik	CSF-20	1424'	3236'	1814'	43-1/2	41.7
4	7-7/8"	VAR	537rr	3236'	3500'	264'	21	12.6
5	7-7/8"	REED	HP53-A	3500'	3546'	46'	7-1/2	6.1
6	7-7/8"	HTC	J-33H	3546'	3947'	401'	23-1/2	17.0
7	7-7/8"	SEC	M-44N	3947'	4096'	149'	12-1/2	12.0
8	7-7/8"	SEC	M-44N	4096'	4278'	182'	13	14.0
9	7-7/8"	REED	HP53-A	4278'	4313'	35'	7-1/2	4.7
10	7-7/8"	SEC	M-44N	4313'	4404'	91'	11-1/2	8.0
11	7-7/8"	HTC	J-33Hrr	4404'	4981'	577'	52	11.0
12	7-7/8"	STC	F-3	4981'	5577'	556'	48-1/2	11.5

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

MUD REPORT

<u>DATE</u>	<u>TIME</u>	<u>DEPTH</u>	<u>WT</u>	<u>VIS</u>	<u>FIL</u>	<u>pH</u>	<u>CL</u>	<u>CA</u>	<u>F.C.</u>	<u>SOL.90</u>
1- 8-85	9:30	4110'	10.2	40	12.2	11.5	1200	3200	1/32	14.0
1- 9-85	12:00	4310'	10.1	40	10.0	11.5	1500	120	1/32	13.0
1-10-85	13:00	4450'	10.1	39	9.6	12.0	1800	120	1/32	13.0
1-11-85	11:30	4655'	10.1	40	9.6	12.0	1500	80	1/32	13.0
1-12-85	12:30	4840'	10.1	40	8.4	12.0	1500	40	1/32	13.0
1-13-85	11:30	5020'	10.1+	42	9.2	12.0	1800	40	1/32	13.0
1-14-85	11:30	5290'	10.0	40	8.8	12.0	1600	40	1/32	12.0
1-15-85	12:15	5565'	10.2	43	10.0	12.5	1700	180	1/32	14.0

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

FORMATION TOPS

Ground Elevation: 4686'

Kelly Bushing Elevation: 4700'

<u>UNIT</u>	<u>MEASURED DEPTH</u>	<u>EST. SAMPLE TOPS</u>	<u>E-LOG TOP</u>	<u>THICKNESS</u>
Hermosa (Honaker Trail)	4359'	4356' (+ 344')	4360' (+ 340')	860'
Upper Ismay	5204'	5218' (- 518')	5220' (- 520')	123'
Lower Ismay	5324'	5340' (- 640')	5343' (- 643')	37'
Gothic Shale	5359'	5378' (- 678')	5380' (- 680')	21'
Desert Creek	5379'	5398' (- 698')	5401' (- 701')	128'
Anhydrite	-	5412' (- 712')	-	-
Chimney Rock	5544'	5524' (- 824')	5529' (- 829')	26'
Akah	-	5550' (- 850')	5555' (- 855')	-
T.D.	5580'	5577' (- 877')	5582' (- 882')	

CHUSKA ENERGY COMPANY
Navajo Tribal No. 43-2

CONTROL DATUM

Chuska Energy Company
Navajo Tribal No. 43-2
2500' FSL 660' FEL (surface Location)
Section 2, T42S, R24E
San Juan County, Utah

Chuska Energy Company
Navajo Tribal No. 42-2
2140' FNL 590' FEL
Section 2, T42S, R24E
San Juan County, Utah

Ground Elevation: 4686'
Kelly Bush Elevation: 4700'

Ground Elevation: 4635'
Kelly Bush Elevation: 4648'

<u>UNIT</u>	<u>EST. SAMPLE TOP</u>	<u>E-LOG TOP</u>	<u>E-LOG TOP</u>
Hermosa (Honaker Trail)	4356' (+ 344')	4360' (+ 340')	4356' (+ 348')
Upper Ismay	5218' (- 518')	5220' (- 520')	5196' (- 492')
Lower Ismay	5340' (- 640')	5343' (- 643')	5316' (- 612')
Gothic Shale	5378' (- 678')	5380' (- 680')	5350' (- 646')
Desert Creek	5398' (- 698')	5401' (- 701')	5368' (- 664')
Anhydrite	5412' (- 712')	- -	5373' (- 669')
Porosity Zone	- -	- -	5419' (- 715')
Chimney Rock	5524' (- 824')	5529' (- 829')	5529' (- 825')
Akah	5550' (- 850')	5555' (- 855')	- -
T.D.	5577' (- 877')	5582' (- 882')	5554' (- 850')

FORMATION EVALUATION

The primary objective of the Navajo Tribal No. 43-2 well, located in Section 2, Township 42 South, Range 24 East of San Juan County, Utah, was to analyze and evaluate any hydrocarbon shows associated with the Pennsylvanian aged Desert Creek Zone of the Paradox Formation of the Hermosa Group.

Secondary zones of interest were the Pennsylvanian Aged Upper and Lower Ismay cycles also of the Paradox Formation.

Formations encountered during mudlogging procedures of the Navajo Tribal 43-2 all fall within the time boundaries of the Pennsylvanian period.

I. Pennsylvanian Period

A. Hermosa Group

1. Organ Rock Formation
2. Honaker Trail Formation (Virgil, Missouri)
3. Paradox Formation (Des Moines)
 - a. Upper Ismay
 - b. Lower Ismay
 - c. Gothic Shale
 - D. Desert Creek
 - e. Chimney rock
 - f. Akah

Terra Services commenced mudlogging procedures at a depth of 4300' in the lower section of the Pennsylvanian Aged Organ Rock Formation at 8:20 hours (M.S.T.) on January 9, 1985 and completed mudlogging procedures at a driller depth of 5577' or an E-Log depth of 5582' at 13:30 hours (M.S.T.) on January 15, 1985 in the Akah zone of the Pennsylvanian Aged Paradox formation.

FORMATION SUMMARY

A. HERMOSA GROUP

1. ORGAN ROCK FORMATION

Top: Not Determinable

Thickness: Not Determinable

Average Penetration Rate: 5 min/ft or 12 ft/hr

The Organ Rock in this particular location consists primarily of very chalky limestone, anhydrite, shale, and minor sandstone. The amount of chalky limestone in this particular location is greater than noted in nearby offset wells.

The limestone is predominantly white stained, slightly pink, light brown, microcrystalline, microsugrosic to fine granular, hard to very gummy, very chalky to slightly anhydritic, predominantly tight, fossiliferous, with pellets and crinoid stems identifiable within the samples.

The shale was orange brown, mottled gray green, light to medium gray, blocky, subwaxy to earthy, silty, calcareous, firm to soft, and anhydritic in part. The observed sandstone is light gray to slightly clear, very fine to fine grained, subounded, moderately sorted, hard, calcareous, biotitic.

Gas and Sample Show(s): No gas or sample show was observed in the Organ Rock Formation.

2. HONAKER TRAIL FORMATION

Top: 4360'

Thickness: 860'

Average Penetration Rate: 4-6 min/ft or 12 ft/hr on average

The Honaker Trail Formation consists primarily of alternating beds of shale and limestone with minor beds of sandstone, with a usual general increase in carbonate deposition towards the lower sections of the

FORMATION SUMMARY, continued

formation. However in this particular location a general abundance of carbonate rocks were observed throughout the entire formation.

The shales are predominantly light to medium gray green, medium brown, orange red, with a noticeable increase in the gray shales observed in the lower section of the formation. The shale is black to occasionally platy, earthy to subwaxy, silty to sandy, slightly calcareous, to occasionally limy, firm to soft, micaceous, and pyritic in part. Some minor anhydritic shale was observed too, most noticeably towards the top of the formation.

The limestones are light brown to cream, light to medium gray, and light to medium brown lower in the formation, micro to cryptocrystalline, range in texture from granular to dense, are hard to firm, displays tight intercrystalline porosity, is sandy to silty, fossiliferous in part, cherty in part, and becomes increasingly chalky and argillaceous towards the bottom of the formation.

The minor amounts of sandstone observed are light gray to white, fine to slightly medium grained, subrounded, moderately sorted, hard, calcareous to limy, shows tight intergranular porosity, and is micaceous in part.

Also minor chert was observed in sample. The chert was light brown to gray to slightly blue.

Gas and Sample Show(s): No gas or sample show was observed in the Honaker Trail Formation.

FORMATION SUMMARY, continued

3. PARADOX FORMATION

A. Upper Ismay Cycle

Top: 5220'

Thickness: 123'

Average Penetration Rate: 3-4 min/ft or 17.1 ft/hr

The Upper Ismay Cycle of the Paradox Formation consists primarily of limestone with minor amounts of interbedded shale. In the Lone Mountain Canyon area, a key bed of shale marks the boundary between the Upper and Lower Ismay Cycles of the Paradox Formation and will be described in greater detail below.

The limestones are light to medium brown, cream to white, microcrystalline to cryptocrystalline in part, predominantly microcrystalline to granular, with occasional zones of minor pinpoint vugs, firm to hard, generally displays tight to poor intercrystalline to slight intergranular porosity, is chalky to slightly argillaceous. Minor amounts of oil stain, and cuts were also observed.

The shales observed most notable occur right at the boundary between the Upper and Lower Ismay. The shale in other areas of the basin is called the Hovenweep Shale and will be described as seen in this particular location. It may also be noted that this bed of shale occurs in three nearby wells drilled in the area.

The shale is dark gray to black, medium gray, blocky, sooty, carbonaceous, calcareous to limy, soft to firm, pyritic in part.

For more detailed descriptions, see Appendix A.

Gas and Sample Show(s): A few minor shows were observed in the Upper Ismay Cycle of the Paradox Formation. Detailed descriptions are in Appendix A and noted here also. Two shows are worth note in the Upper Ismay.

FORMATION SUMMARY, continued

Interval: 5248'-5256'

Background gas before 5248' Drill Rate 4-5 min/ft

Total Gas 2-3 units

C1 2-3 units

C2 1-2 units

C3 None observed

C4 None Observed

Maximum Gas Peak 5248'-5256' Drill Rate 3-3.5 min/ft

Total Gas 20 units

C1 23 units

C2 18 units

C3 14 units

C4 3 units

Sample show: Limestone, no visible oil stain, spotty to even bright yellow hydrocarbon fluorescence, (10% of sample max.) good fairly slow streaming cut.

Background gas after 5256' Drill Rate 3.5-4.0 min/ft

Total Gas 2-3 units

C1 2-3 units

C2 1-2 units

C3 Trace

C4 None observed

Interval 5276'-5284'

Background gas before 5276' Drill Rate 3.5 min/ft

Total Gas 2-3 units

C1 2-3 units

C2 1-2 units

C3 Trace

C4 None observed

FORMATION SUMMARY, continued

Maximum Gas Peak 5276'-5284' Drill Rate 3.0 min/ft

Total Gas 22 units

C1 31 units

C2 20 units

C3 14 units

C4 3 units

Sample Show: Limestone, no visible to very slight light brown oil stain, spotty to pinpoint dull yellow hydrocarbon fluorescence, very slight streaming to bleeding cut.

Background gas after 5284'

Total Gas 2-3 units

C1 2-3 units

C2 1-2 units

C3 Trace

C4 Trace

B. Lower Ismay Cycle

Top: 5343'

Thickness: 37'

Average Penetration Rate: 5 min/ft or 12 ft/hr

The Lower Ismay Cycle of the Paradox Formation consists primarily of limestone with minor amounts of interbedded anhydrite and shale.

The anhydrite is white stained orange, gummy to very soft. The shales are medium to dark gray, blocky, earthy to sooty, carbonaceous in part, calcareous, soft to firm, occasionally pyritic.

The limestones are light gray, light to medium brown, cream, micro-crystalline, microsucrosic to granular, occasional vugs were observed, hard to firm display, tight to good intergranular to intercrystalline,

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FORMATION SUMMARY, continued

with very occasional vugular porosity, are fairly clean to argillaceous and slightly chalky. Cut and sample shows were observed in a small interval of the Lower Ismay also.

Refer to Appendix A for more detailed descriptions.

Gas and Sample Shows: Two very good shows were observed in the Lower Ismay. They are very close together, separated by 1 foot of slower drilling.

The gas is listed before the 1st show and after the 2nd show due to the close proximity of the two zones.

Interval 5364'-5367' Drill Rate: 6.5 min/ft

Total Gas 8-10 units

C1 10-13 units

C2 8-10 units

C3 4- 5 units

C4 1- 2 units

Interval 5368'-5371'

Maximum Gas Peak 5368'-5371' Drill Rate 3.0-3.5 min/ft

Total Gas 184 units

C1 320 units

C2 256 units

C3 168 units

C4 36 units

Sample Show: Good, spotty to even, light to medium brown, oil stain, spotty, bright yellow to slightly green, hydrocarbon fluorescence, good fast dull milky yellow streaming cut.

FORMATION SUMMARY, continued

Background gas after 5371'

Total Gas 20 units

C1 28 units

C2 15 units

C3 10 units

C4 2-3 units

C. Gothic Shale

Top: 5380'

Thickness: 21'

Average Penetration Rate: 3.5-4 min/ft or 15 ft/hr

The Gothic Shale is very dark gray, brown to black, blocky, sooty, carbonaceous, limy, soft, and pyritic in part. No fluorescence is observed, but a slow bleeding cut can be observed in this shale interval.

D. Desert Creek

Top: 5401'

Thickness: 128'

Average Penetration Rate: 5 min/ft or 12 ft/hr

The Desert Creek consists primarily of limestone with minor amounts of interbedded shale and a prominent anhydrite bed near the very top of the section. It might be noted that the section of Desert Creek is somewhat thinner than the sections drilled in the Navajo Tribal 42-2 and the 41-2. The limestone in the 43-2 does not have the good clean samples as those encountered in the producing offset wells. It might possibly be an indicator that the 43-2 well is not within the confines of the Agal Mound penetrated by the 42-2 and the 41-2.

The limestone in this section of Desert Creek was, medium to dark brown, medium gray and light to medium brown to cream in areas of slight

FORMATION SUMMARY, continued

mound development. The limestone is micro to cryptocrystalline, fine granular to dense, in most of the section, hard to very firm, displays tight ~~intergranular~~ to intercrystalline porosity, is argillaceous and dolomitic in part. Only minor fluorescence and cut was observed throughout the entire section.

The anhydrite is white stained orange, is gummy to very soft.

Gas and Sample shows: Only one occurrence of any significance occurred near the top of the Desert Creek. The lower porosity zones had no major development of any kind and very minimal at best, where any of the shows were encountered.

Interval 5406'-5410'

Background gas before 5406' Drill Rate 6 min/ft

Total Gas 28-30 units

C1 40 units

C2 20 units

C3 12-15 units

C4 2-3 units

Maximum Gas Peak 5406'-5410' Drill Rate 3.5 min/ft

Total Gas 104 units

C1 148 units

C2 100 units

C3 60 units

C4 7 units

Sample Show: Minor light to medium brown oil stain, slight spotty hydrocarbon fluorescence, very slow streaming to predominantly bleeding cut.

FORMATION SUMMARY, continued

Background gas after 5410' Drill Rate 5 min/ft

Total Gas 25 units

C1 28-30 units

C2 20 units

C3 10 units

C4 2 units

E. Chimney Rock

Top: 5529'

Thickness: 26'

Average Penetration Rate: 4.5 min/ft or 13.3 ft/hr

The Chimney Rock in this location consists of shale at the top with interbedded limestone and dolomite in the lower 2/3 of the unit.

The shale is dark gray to black, medium gray, blocky, sooty, carbonaceous, calcareous to limy, soft and occasionally pyritic. The limestone is light brown to cream, microcrystalline, microsugrosic to fine granular, hard, displays tight predominantly intercrystalline porosity, and is becoming somewhat cleaner than the carbonates in the overlying Desert Creek. Very minor shows were also observed in the limestone. The dolomites are light to medium brown, sugrosic to fine granular, firm, display poor intercrystalline to slight intergranular porosity, are fairly clean, minor hydrocarbon fluorescence and cut were observed.

Gas and Sample Show(s): Very minor dismal shows were observed in the Chimney Rock but not of any significance to make note of.

FORMATION SUMMARY, continued

F. Akah

Top: 5555'

Thickness: Not determinable

Average Penetration Rate: 4 min/ft or 15 ft/hr

The Akah in this location consists primarily of limestone and dolomite with anhydrite and possible salt towards T.D. The limestone is light to medium brown, light gray, microcrystalline, fine granular to microsucrosic, hard, displays tight intercrystalline porosity and occasional fluorescence and cut was observed. The dolomite is medium to dark brown, becoming light brown, microcrystalline, sucrosic to fine granular in part, firm, displays poor intercrystalline porosity, is fairly clean to slightly argillaceous. Occasional fluorescence and cut was also observed in the dolomite, but are dismal at best. The anhydrite is white, stained slightly pink to orange. The salt section of the Akah was tagged but not enough was drilled to bring sample to the surface. The salt was determined by the penetration rate which went from 4.5 min/ft to 1 min/ft or better.

Gas and Sample Show(s): Very dismal minor shows were associated with the Akah, none worth any note.

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WELL CHRONOLOGY

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
1-8-85	00:00- 3:30	Drilling
	3:30- 4:15	W.L. Survey @ 4086', Rig Service
	4:15- 8:00	Trip for Bit #8, Check B.O.P.'s
	4035'-4096'	38-40,000, 85-90, 1950, 96
	Bit Hours	12-1/3
	8:00- 8:30	Rig Service
	8:30-12:30	Drilling
	12:30-14:00	Trip for hole in drill pipe. 55th joint.
	14:00-14:30	W.L.S. @ 4131'
	14:30-16:00	Drilling
	4096'-4162'	43,000, 75-80, 2,000, 96
	Bit Hours	7-1/2 (Approx.)
	16:00-16:30	Drilling
	16:30-17:00	Circulate and Survey
	17:00-21:00	Drilling
	21:00-21:30	Circulate and Survey
	21:30-24:00	Drilling
	4162'-4266'	43,000, 85-90, 2000, 96
	bit Hours	13 (Approx.)
	1-9-85	00:00- 2:00
2:00- 4:15		Pick up Dyna Drill and T.I.H.
4:15- 5:00		W.L. Survey and orient. mud motor.
5:00- 6:00		Drilling with mud motor

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WELL CHRONOLOGY, continued

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>	
1-9-85	6:30- 7:00	W.L. Survey	
	7:00- 8:00	Drilling with mud motor	
	4266'-4278'	35, 40,000, 85-90, 2000, 96	
	4278'-4295'	14,000, 290, 1050, 80	
	Bit #8 hours	12-1/2	
	Bit #9 hours	2	
	8:00-12:00	Drilling with mud motor	
	12:00-14:00	Pump Pill, Trip Out	
	14:00-16:00	Change mud motors, bit, trip in	
	4295'-4313'	14,000, 290, 1350, -	
	Bit hours	6-1/2	
	16:00-16:30	Orient Tool	
	16:30-20:30	Drilling with mudmotor	
	20:30-21:00	Circulate and survey	
	21:00-23:30	Drilling with mud motor	
	23:30-24:00	Circulate and survey	
	4313'-4372'	12-18,000, 290 RPM mud motor 1350-1400, 88	
	Bit hours	7 (Approx.)	
	1-10-85	00:00-03:00	Drilling with mud motor
		03:00- 4:30	Pump pill and pull out of hole
4:30- 8:00		P.U. Packed assembly, and T.I.H. Reem 120' to bottom Check pipe rams	
4372'-4404'		18,000, 290, 1400, 94	
Bit Hours			

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WELL CHRONOLOGY, continued

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
1-10-85	8:00- 8:30	Rig Service
	8:30- 9:00	Ram to bottom
	9:00-14:30	Drilling
	14:30-15:00	W.L. Survey @ 4478'
	15:00-16:00	Drilling, Crew late
	4404'-4480'	42,000, 80, 2,000, 96
	Bit hours	5-1/2
	16:00-16:30	Pump, soft line - check pump
	16:30-18:30	Pull pipe for leak
		#19 DC in hole cracked box
	18:30-19:30	Cut 90' drilling line
		#18 washed pin
	19:30-21:30	Trip in hole
	21:30-24:00	Drilling
	4480'-4503'	40,000, 78, 2000, 96
Bit hours	9 (Approx.)	
	*check	
1-11-85	00:00- 7:30	Drilling
	7:30- 8:00	Rig Service
		Open close pipe rams
	4503'-4598'	40,000, 78, 1950, 96
	Bit hours	16-1/2
	8:00- 8:30	W.L.S.
	8:30-13:30	Drilling
	13:30-14:00	W.L.S.
14:00	Drilling	

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WELL CHRONOLOGY, continued

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
1-11-85	4598'-4676'	40,000, 78, 1950, 96'
	Bit hours	21-1/2
1-11-85	14:00-21:00	Drilling
	21:00-24:00	Pump soft line and trip out of hole (hole in pipe) Lay down 2 DC
	4676'-4745'	40,000, 78, 1550, 20
	Bit hours	28-1/2
1-12-85	00:00-02:30	Finish trip out - check Bit and trip in hole
	02:30-05:30	Drilling
	5:30- 6:00	Circ. and survey
	6:00- 7:30	Drilling
	7:30- 8:00	rig service, check pipe rams
	4745'-4778'	40,000, 70, 1550, 80
	Bit hours	33
	8:00-11:00	Drilling
	11:00-11:30	W.L.S.
	11:30-16:00	Drilling
	4778'-4853'	40,000, 70, 1550, 80
	Bit hours	39-1/2
	16:00-24:00	Drilling
	4853'-4932'	40,000, 70, 1550, 80
	Bit hours	48-1/2

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WELL CHRONOLOGY, continued

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
1-13-85	00:00- 3:00	Drilling
	3:00- 3:30	Circ. and survey
	3:30- 4:00	Drilling
	4:00- 7:00	Mix slug, and T.O.H. lay down 2 I.B.S.'s 1 short D.C. 13 pt. reamer
	7:00- 7:30	Service Rig Check B.O.P.
	7:30- 8:00	T.I.H.
	4932'-4981'	40,000, 70, 1550, 80
	Bit hours	53
	8:00- 9:00	T.I.H.
	9:00-15:00	Drilling
	4981'-5038'	35,000, 75, 1600, 80
	Bit hours	6
	15:00-16:30	Drilling
	16:30-17:00	Circ. and survey
	17:00-24:00	Drilling
	5038'-5131'	35,000, 75, 1850, 80
	Bit hours	14-1/2
1-14-85	00:00- 1:00	Drilling
	1:00- 1:30	Circ. and survey
	1:30- 6:30	Drilling
	6:30- 7:00	W.L. Survey
	7:00- 8:00	Drilling
	5131'-5223'	40,000, 65, 1700, 80
	Bit hours	-

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WELL CHRONOLOGY, continued

<u>DATE</u>	<u>TIME</u>	<u>EVENT</u>
1-14-85	8:00- 9:30	Drilling
	9:30-10:00	Rig serv. check. B.O.P.
	10:00-13:30	Drilling
	13:30-14:00	W.L. Survey
	14:00-16:00	Drilling
	5223'-5324'	40,000, 65, 2100, 80
	Bit hours	-
	16:00-24:00	Drilling
	5324'-5406'	40,000, 70, 1850, 80
	Bit hours	-
1-15-85	00:00-01:00	Drilling
	01:00-01:30	Circulate and survey
	1:30- 8:00	Drilling
	5406'-5494	40,000, 70, 1850, 82
	Bit hours	-
	8:00- 9:30	Drilling
	9:30-10:00	rig serv. B.O.P.
	10:00-13:30	Drilling to T.D. 5577'
	13:30-15:00	Circulate for logs
	15:00	Trip out final
5494'-5577'	40,000, 70, 1850, 82	
Bit hours	48-1/2	

APPENDIX A

5100'-5110' Limestone 50% Light medium brown, cream, light gray, predominantly microcrystalline, occasionally cryptocrystalline, predominantly microsucrosic slightly fine granular in part, dense in part, hard, tight intercrystalline porosity, argillaceous to slightly chalky, occasionally sandy.

Shale 50% medium to light gray, blocky, earthy, silty to slightly sandy, calcareous, firm, mica in part.

5110'-5120' Poor, ~~sample~~ abundant cavings, Shale 50%, Light to medium gray, blocky, earthy, silty, slightly sandy, calcareous to slightly limy in part, firm.

Limestone 50%, Light brown, cream, light gray, microcrystalline, microsucrosic, gray, dense in part, hard, tight, intercrystalline porosity in part, fine, clean to slightly argillaceous interbedded shale.

5120'-5130' Shale 50%, Medium to dark gray, minor light gray, blocky, earthy, silty, occasional sandy, calcareous, limy, firm to moderately hard, pyritic in part.

Limestone 50% light-medium brown, medium gray, microcrystalline to predominantly microsucrosic, grainy in part, firm to hard, tight intercrystalline porosity, argillaceous, silty in part.

APPENDIX A, continued

5130'-5140'	<u>Limestone</u>	60%, Light-medium brown, medium gray, minor cream, microcrystalline, very fine crystalline to dense, hard-very hard lithographic-very tight intercrystalline porosity in part, argillaceous in part, possible fossiliferous debris, pellet.
	<u>Shale</u>	Medium-dark gray, blocky - slightly platy, silty, occasionally sandy, calcareous-slightly limy in part, firm-moderately hard, occasional pyrite.
5140'-5150'	<u>Limestone</u>	80%, cream, white, light brown, light gray, microcrystalline, micaceous-dense, firm-hard, tight intercrystalline porosity in part, chalky, occasionally argillaceous, minor yellow mineral fluorescence, no stain, no cut.
	<u>Shale</u>	As above 20%
5150'-5160'	<u>Limestone</u>	80%, light brown, cream, cryptocrystalline to occasional microcrystalline, dense to very fine crystalline, very hard, occasionally chalky with minor fossil debris.
	<u>Shale</u>	20% Medium gray, blocky to slightly platy, earthy, slightly silty, calcareous to slightly limy, firm to moderately hard, occasionally pyritic.

APPENDIX A, continued

5160'-5170'	<u>Limestone</u>	80%, cream, light brown, microcrystalline, very fine crystalline-dense, very hard-firm, very tight intercrystalline porosity in part, occasionally chalky-argillaceous, very minor occasional interbedded <u>shale</u> , occasional pyrite.
	<u>Shale</u>	20%, medium - dark gray, blocky, earthy, very slightly sooty, slightly calcareous - limy, firm.
5170'-5180'	<u>Limestone</u>	70%, Cream-light brown, microcrystalline, fine crystalline - dense, hard, tight intercrystalline porosity in part, chalky - slightly argillaceous, occasional fossil debris, possible oolite, minor mineral fluorescence, no cut.
	<u>Shale</u>	30% As above.
5180'-5190'	<u>Limestone</u>	70%, Light -medium brown, cream, predominantly microcrystalline, cryptocrystalline in part, granular- microsucrosic, occasionally dense, hard, tight intergranular - intercrystalline porosity, becoming increasingly argillaceous, decreasing chalk, occasionally sandy, no visible fossil debris.
	<u>Shale</u>	30% Medium gray, blocky, earthy, silty, occasionally sandy, calcareous, slightly limy, firm to hard, occasional mica pyrite.
5190'-5200'	<u>Shale</u>	60%, medium - dark gray, blocky, earthy - slightly sooty, silty, calcareous-limy, firm-hard, possibly slightly dolomitic.

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APPENDIX A, continued

	<u>Limestone</u>	40%, Light brown, dark brown, microcrystalline, microsucrosic, gray, hard, tight, intercrystalline porosity, very argillaceous - shaly, dolomitic in part.
5200'-5210'	<u>Shale</u>	70% Medium-dark gray, blocky, earthy, silty, calcareous-slightly limy, firm-hard, mica, occasional pyrite.
	<u>Limestone</u>	Light-medium brown, light gray, predominantly microcrystalline, occasional cryptocrystalline, predominantly fine grain - microsucrosic, dense in part, hard, tight intercrystalline porosity, argillaceous, occasionally chalky.
5210'-5220'	<u>Shale</u>	60% medium - dark gray, blocky, earthy, slightly silty, calcareous-slightly limy, firm-hard, occasional pyrite, slightly sandy.
	<u>Limestone</u>	Light-medium brown, light gray, microcrystalline-cryptocrystalline in part, grainy-microsucrosic, dense in part, hard, tight intercrystalline porosity, argillaceous, slightly chalky.
5220'-5230'	<u>Shale</u>	50%, Medium - dark gray, blocky, earthy, slightly silty, calcareous, slightly sandy, occasional pyrite, firm-hard.
	<u>Limestone</u>	50%, light-medium brown, light gray, microcrystalline in part, grainy-microsucrosic, dense in part, hard, tight intercrystalline porosity, slightly argillaceous, slightly chalky.

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APPENDIX A, continued

5230'-5240'	<u>Shale</u>	60%, Medium-dark gray, blocky, earthy, slightly silty, calcareous, slightly pyritic, soft-firm.
	<u>Limestone</u>	40%, Light - dark brown, light gray, microcrystalline, grainy-microsugrosic, dense in part, slightly argillaceous, slightly chalky, hard, tight intercrystalline porosity.
5240'-5248'	<u>Shale</u>	50%, light - dark gray, blocky, earthy, calcareous, occasional pyrite, soft-firm.
	<u>Limestone</u>	50%, Light-dark brown, light gray, microcrystalline, grainy-microsugrosic, dense in part, slightly argillaceous, slightly chalky, hard, tight intercrystalline porosity.
* 5248'-5254'	<u>Limestone</u>	White-cream, microcrystalline, microsugrosic - granular, with minor vugs, firm-hard, tight-intercrystalline-intergranular and minor vugular porosity, fine, clean, occasionally chalky, spotted, very light brown, no visible oil stain, spotted-even, bright yellow hydrocarbon fluorescence, good fine slow streaming cut.
	Porosity	5-8% maximum Fluorescence 10% of sample, leaving faint halo in spot dish.
5254'-5260'	<u>Limestone</u>	70%, White-cream, light-medium brown, light gray, microcrystalline, fine grained-microsugrosic, dense in part, slightly argillaceous, slightly chalky, occasionally pyritic, hard, firm intercrystalline porosity.
*Show	<u>Shale</u>	30%, Light-dark gray, blocky, earthy, moderately

APPENDIX A, continued

		calcareous, occasionally pyritic, soft-firm, NSFOC.
5260'-5270'	<u>Limestone</u>	85%, Cream-white, light-medium brown, light gray, microcrystalline-cryptocrystalline in part, micsucrosic-granular, dense in part, slightly argillaceous, slightly chalky, hard, fair-poor intercrystalline porosity, NSFOC.
	<u>Shale</u>	15%, Light-dark gray, blocky, earthy, moderately calcareous, pyritic, soft-hard.
5270'-5276'	<u>Limestone</u>	90%, Cream-white, light-dark brown, light gray, microcrystalline-cryptocrystalline, microsucrosic-granular, dense in part, slightly argillaceous, chalky, hard-soft, poor to fair intercrystalline porosity, NSFOC.
	<u>Shale</u>	10%, Light-dark gray, blocky, earthy, moderately calcareous, occasional pyrite, soft-firm.
* 5276'-5282'	<u>Limestone</u>	Cream-white, microcrystalline, microsucrosic-slightly granular, firm-soft, tight-poor intercrystalline - very slight intergranular porosity, very chalky, no visible-very slight light brown-slightly gray oil stain, spotty-pinpoint dull yellow hydrocarbon fluorescence, very slight streaming bleeding cut.
	Porosity	4-5% Fluorescence 5-8% of sample, leaves very slight halo.

*Show

APPENDIX A, continued

5282'-5290'	<u>Limestone</u>	80%, Cream-white, light-dark brown, light gray, microcrystalline-cryptocrystalline in part, microsucrosic-slightly granular, dense in part, slightly argillaceous, chalky, hard-soft, poor intercrystalline porosity, NSFOC.
	<u>Shale</u>	20%, Light-dark gray, blocky, earthy, moderately calcareous, occasional pyrite, soft-firm.
5290'-5300'	<u>Limestone</u>	80%, Light-medium brown, cream, predominantly microcrystalline, microsucrosic-slight gray, firm-hard, tight intercrystalline porosity, argillaceous-chalky in part, occasional minor fossil debris, NSFOC.
	<u>Shale</u>	20%, Medium - dark gray, blocky, earthy-slightly sooty, calcareous, firm, pyritic in part.
5300'-5310'	<u>Limestone</u>	80%, Light - medium brown, cream, microcrystalline, microsucrosic-fine grain, firm-hard, tight -poor intercrystalline porosity, argillaceous, occasionally chalky, NSFOC.
	<u>Shale</u>	20%, Medium - gray, blocky, earthy, slightly silty, calcareous firm-moderately hard, occasional pyrite.
5310'-5320'	<u>Limestone</u>	80%, Light - medium brown, occasional light gray, predominantly microcrystalline, occasionally cryptocrystalline, microsucrosic-fine granular, firm-hard, tight-poor intercrystalline porosity,

APPENDIX A, continued

		gray-slightly chalky, fossil fragments.
	<u>Shale</u>	20%, As above
5320'-5330'	<u>Limestone</u>	80%, Light-medium brown, cream, light gray, microcrystalline, microsucrosic, fine grain, firm-hard, tight intercrystalline porosity, argillaceous-chalky, occasional fossil fragments, possible dead oil stain, no fluorescence or cut.
	<u>Shale</u>	20%, Medium-dark gray, blocky, earthy, slightly silty, calcareous, firm, occasional pyrite.
Hovenweep 5330'-5340'	<u>Shale</u>	40%, Dark gray-black, blocky-slightly platy, sooty, carbonaceous, calcareous-limy, soft, pyritic.
	<u>Limestone</u>	60%, Light-medium brown, medium gray, microcrystalline, microsucrosic-grainy, hard, tight, intercrystalline porosity, argillaceous, occasionally chalky, occasional fossil debris, minor occasional pyrite.
5340'-5350'	<u>Anhydrite</u>	10%, White stained orange, gummy.
	<u>Shale</u>	20%, Dark gray-black, blocky, sooty, carbonaceous, calcareous-limy, soft - firm, pyritic.
	<u>Limestone</u>	70%, Light gray, light-medium brown, cream, microcrystalline, microsucrosic-grainy, hard-firm, tight intercrystalline porosity, argillaceous - chalky in part.

APPENDIX A, continued

5350'-5360'	<u>Limestone</u>	60%, Light - medium brown, cream, microcrystalline, microsugrosic-grainy, hard-firm, tight intercrystalline, argillaceous, chalky in part, anhydrite ^{1c} in part.
	<u>Shale</u>	40%, Dark gray-black, sooty-earthy, carbonaceous, very calcareous soft-firm.
5360'-5364'	<u>AA</u>	
* 5364'-5367'	<u>Limestone</u>	90%, Light brown, cream, light gray, microcrystalline, granular-microsugrosic, minor vugs, firm-hard, fair-good intercrystalline - minor vug porosity, fair-clean, occasionally chalky, minor fossil debris, good, spotted, even light brown oil stain, spotted-even bright yellow hydrocarbon fluorescence, good - fine fast milky yellow streaming cut.
	Porosity	8-10%
	Fluorescence	60%
	Leaves	moderate halo in spot dish.
5367'-5368'		Slow foot drilled.
* 5368'-5371'	<u>Limestone</u>	90%, Light-slight medium brown, light gray, cream, microcrystalline, granular-slightly microsugrosic, minor pinpoint vugs, firm-hard, fair - good intergranular - intercrystalline - minor vug porosity, predominantly clean, occasionally chalky, occasional fossil fragments, good-spotted-even light-medium brown oil stain, spotted-bright yellow hydrocarbon fluorescence, good-fine fast milky yellow streaming cut.

* Show

APPENDIX A, continued

	Porosity	10-12% at best	Fluorescence in sample	75%
			Leaves moderate dull yellow halo in spot dish.	
5371'-5380'	<u>Limestone</u>	80%,	Light-medium brown, light gray, cream, microcrystalline, microsucrosic-slightly granular, poor intercrystalline porosity, slightly argillaceous, slightly chalky, NSFOC.	
	<u>Shale</u>	20%,	medium-dark gray, light brown, blocky, earthy-sooty, carbonaceous, medium calcite, occasionally pyritic, soft-medium firm.	
5380'-5390'	<u>Shale</u>	85%,	Medium-dark gray, light-medium brown, blocky, sooty, earthy, moderately calcareous, carbonaceous, occasional pyritic, soft-firm.	
	<u>Limestone</u>	15%,	Light-medium brown, light gray, microcrystalline + cryptocrystalline in part, microsucrosic - dense, in part, tight-poor intercrystalline porosity, slightly chalky, NSFOC.	
5390'-5400'	<u>Shale</u>	90%,	Black-dark brown, light gray, blocky, sooty, earthy, carbonaceous, moderately calcareous, occasional pyrite, soft-firm.	
	<u>Limestone</u>	10%,	Light-medium brown, light gray, microcrystalline, microsucrosic-slightly grainy, poor intercrystalline porosity, slightly argillaceous, slightly chalky, NSFOC.	
5400'-5408'	<u>Shale</u>	85%,	Light-medium gray, slight medium brown-black, blocky, earthy-sooty, moderately calcareous,	

APPENDIX A, continued

slightly carbonaceous, occasional pyrite,
soft, firm.

Limestone 10%, Light- medium brown, light gray, microcrys-
talline, microsucrosic-very slightly grainy,
poor intercrystalline porosity, slightly argilla-
ceous, slightly chalky, firm-hard, NSFOC.

Anhydrite 5%.

* 5408'-5412' Limestone 90%, Cream-light-very slight medium brown,
microcrystalline, microsucrosic-fine granular,
firm-hard, poor intercrystalline - slightly
intergranular porosity, fair clean, very slightly
chalky in part, minor spotted, medium brown
oil stain, spotted dull yellow hydrocarbon
fluorescence, very slow, milky yellow streaming
- bleeding cut.

Porosity 8% at best Fluorescence of sample 10%
Leaves faint halo in tray.

5412'-5420' Shale 45%, Light-dark gray, minor black, blocky,
earthy-sooty, very calcareous, carbonaceous,
occasional pyrite, soft-firm.

Limestone 40%, Light-medium brown, light gray, microcrys-
talline, microsucrosic-very slightly granular,
firm-hard, poor intercrystalline porosity,
slightly argillaceous, slightly chalky, NSFOC.

Anhydrite 15%, Soft.

* Show

APPENDIX A, continued

5420'-5330'		Abundant cavings.
	<u>Limestone</u>	50%, Light-dark brown, light gray, microcrystalline -cryptocrystalline in part, microsugrosic, slightly argillaceous, slightly chalky, firm- hard, poor-intercrystalline porosity, NSFOC.
	<u>Shale</u>	30%, Light -- medium gray, blocky, earthy, very calcareous, occasional pyrite, soft-firm.
	<u>Anhydrite</u>	20%, White, soft, gummy.
5430'-5440'	<u>Limestone</u> , AA, <u>Shale</u> , AA, <u>Anhydrite</u> , AA	
5440'-5450'	<u>Limestone</u>	95%, Dark brown, light gray, light brown, cryptocrystalline-microcrystalline, dense- microsugrosic, hard, very tight intercrystalline porosity, limy dolomite, argillaceous, minor anhydrite, pyrite, NSFOC.
	<u>Shale</u>	5%, AA
5450'-5460'	<u>Limestone</u>	90%, Dark -- light brown, light-medium gray, cryptocrystalline-microcrystalline, dense- microsugrosic, hard, very tight intercrystalline porosity, limy dolomite, argillaceous, pyritic, NSFOC.
	<u>Shale</u>	95%, AA
5460'-5470'	<u>Limestone</u>	85%, Cream- light gray, light-medium brown, micro-cryptocrystalline in part, predominantly microsugrosic, fine granular, dense in part, hard, tight intercrystalline porosity, argilla- ceous-slightly chalky, NSFOC.
	<u>Shale</u>	15%, Abundant cavings, medium-dark gray, blocky, earthy, silty in part, calcareous, firm-soft, pyrite.

CHUSKA ENERGY COMPANY
Navajo Tribal #42-2

APPENDIX A, continued

5470'-5480'	<u>Limestone</u>	90%, As above.
	<u>Shale</u>	10%, As above.
5480'-5490'	<u>Limestone</u>	90%, Dark-light gray, cream, light brown, crypto-microcrystalline, dense-microsugrosic, hard, lithographic-very tight intercrystalline porosity, dolimitic, argillaceous, pyrite.
	<u>Shale</u>	Dark-medium gray, blocky, earthy, limy-soft pyrite, occasional calcite.
5490'-5500'	<u>Limestone</u>	90%, Light - dark gray, cream, light-medium brown, crypto-microcrystalline, becoming increasing microcrystalline, dense-very fine crystalline, hard, lithographic-tight porosity in part, dolomite, argillaceous in part, occasional pyrite, NSFOC.
	<u>Shale</u>	10%, As above
5500'-5520'	<u>Limestone</u>	90%, Light-medium brown, cream, light gray micro-cryptocrystalline in part, predominantly microsugrosic-fine granular, dense in part, hard, tight intercrystalline - slightly intergranular porosity, argillaceous in part, minor mineral fluorescence, no cut.
	<u>Shale</u>	10%, As above.
5520'-5540'	<u>Limestone</u>	90%, Medium-dark brown, light brown, cream, microcrystalline, microsugrosic, fine-granular, firm-hard, poor - tight intercrystalline - slightly intergranular porosity, slightly argillaceous, no visible oil stain, minor dull yellow hydrocarbon fluorescence, very very slight bleeding cut.

APPENDIX A, continued

	<u>Shale</u>	10%, As above.
5540'-5550'	<u>Shale</u>	30%, Dark gray-black, blocky, sooty, carbonaceous, calcareous-limy, firm-soft, pyrite in part.
	<u>Dolomite</u>	20%, Medium-dark brown, microcrystalline, sucrosic, firm, partly intercrystalline porosity, slight hydrocarbon fluorescence, very slight bleeding cut.
	<u>Limestone</u>	50%, As above.
5550'-5560'	<u>Dolomite</u>	30%, Medium-dark brown, becoming light brown, microcrystalline, sucrosic-very slight fine granular, firm, poor intercrystalline porosity, fair clean-argillaceous, very minor hydrocarbon fluorescence, less than 2% of sample, slight bleeding cut.
	<u>Limestone</u>	60%, Light-medium brown, light gray, microcrystalline, fine granular-microsucrosic, hard, tight intercrystalline porosity, argillaceous in part, slight fluorescence and cut, fluorescence less than 1%.
	<u>Shale</u>	10%, Dark-medium gray, blocky, earthy-sooty, slightly silty in part, carbonaceous in part, calcareous, firm, pyritic.
5560'-5570'	<u>Limestone</u>	60%, As above.
	<u>Dolomite</u>	30%, As above
	<u>Shale</u>	As above
5570'-5580'	<u>Limestone</u>	70%, Light-medium brown, microcrystalline, microsucrosic-fine granular, hard, tight intercrystalline porosity, fine, clean-slightly

CHUSKA ENERGY COMPANY
Navajo Tribal #42-2

APPENDIX A, continued

argillaceous, NSFOC.

Dolomite

20%, Light - medium brown, microcrystalline, microsucrosic-sucrosic, firm-hard, tight-poor intercrystalline porosity, fine clean, very minor dull yellow hydrocarbon fluorescence, 2% of sample at best, no visible stain, slight bleeding cut.

Shale

10%, AA

Probable salt - Not observed in sample.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRII
(Other instructions
verse side)

FE*
re

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

RECEIVED
FEB 8 1985

5. LEASE DESIGNATION AND SERIAL NO. **3**
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.

43-2

10. FIELD AND POOL, OR WILDCAT

Aneth

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

2-42S-24E

12. COUNTY OR PARISH

San Juan

13. STATE

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.)

OIL WELL GAS WELL OTHER

DIVISION OF OIL
GAS & MINING

2. NAME OF OPERATOR

Chuska Energy Co.

3. ADDRESS OF OPERATOR

c/o 3E Co. Inc., Box 190 Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

2500' FSL & 660' FEL
Bottom hole: 2440' FSL & 570' FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

4686 gl.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

(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 to 1424'. Ran 8 5/8" 24 lb casing to 1418'. Cemented with: Lead in with 775 cu.ft. Class "B" containing 2% CaCl₂, 4% Gel, 0.6% Halad-9, 1/2lb cellophane flake per sack; tail in with 554 cu.ft. Class "B" containing 2% CaCl₂, 1/4lb cellophane flake per sack. Circulated 112 cu.ft. cement to surface. Waited 30 minutes. Cement fell 30'. Mixed 35 sacks Class "B" and brought cement to surface. Cement did not fall. Plug down at 11:25; 1-1-85. Job complete 1-1-85.

Well was spudded at 1830 hrs; 12-30-84.

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

SIGNED

Bret D. Cook
Bret D. Cook

TITLE Agent

DATE 1-1-85

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side



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

May 1, 1985

Chuska Energy Company
Box 2118
215 North Behrend
Farmington, New Mexico 87499

Gentlemen:

Re: Well No. Navajo Tribal 43-2 - Sec. 2, T. 42S., R. 24E.,
San Juan County, Utah - API #43-037-31042

This letter is to advise you that the "Well Completion or Recompletion Report and Log" for the above referenced well is due and has not been filed with this office as required by our rules and regulations.

Please complete the enclosed Form OGC-3, and forward it to this office as soon as possible, but not later than May 15, 1985.

Sincerely,

Pam Kenna
Well Records Specialist

Enclosure
cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

U170S/29

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

REPORT OF WATER ENCOUNTERED DURING DRILLING

Well Name & Number Navajo Tribal 43-2

Operator Chuska Energy Co. Address Box 190 Farmington, NM 87499

Contractor Coleman Drilling Address _____

Location NE 1/4 SE 1/4 Sec. 2 T. 42S R. 24E County San Juan

Water Sands

	<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.	500	600	4" flow at 500 bll per hour	Fresh
2.				
3.				
4.				
5.				

(Continue on reverse side if necessary)

Formation Tops

Remarks

- 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 Co.
Navajo Tribal 43-2
Cementing Attachment

Set 96' of 13 3/8" 54.50 # per foot casing. Cemented with 177 cu.ft Class "B" containing 1/4# per sack cellophane flake, and 2% CaCl₂.

Ran 8 5/8" 24 lb casing to 1418. Cemented with: Lead in with 775 cu.ft. Class "B" containing 2% CaCl₂, 4% Gel, 0.6% Halad-9, 1/2 lb cellophane flake per sack. Tail in with 554 cu.ft. Class "B" containing 2% CaCl₂, 1/4lb cellophane flake per sack. Circulated 112 cu.ft cement to surface. Cement fell 30'. Mixed 41.3 cu.ft. Class "B" and brought cement to surface.

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

Form approved. Budget Bureau No. 42-R35

9

5. 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.

43-2

10. FIELD AND POOL, OR WILDCAT

White Mesa Greaser Aneth

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

2-41S-24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL [X] GAS WELL [] DRY [] Other []

b. TYPE OF COMPLETION: NEW WELL [X] WORK OVER [] DEEP-EN [] PLUG BACK [] DIFF. RESVR. [] Other []

2. NAME OF OPERATOR

Chuska Energy Co.

3. ADDRESS OF OPERATOR

c/o 3E Company Box 190 Farmington, NM 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 2500' FSL & 660' FEL nese

At top prod. interval reported below

At total depth 2440' FSL & 570' FEL

BUREAU OF LAND MANAGEMENT FARMINGTON RESOURCE AREA

14. PERMIT NO. 43-037-31042 DATE ISSUED 17-20-84

15. DATE SPUNDED 12/31/84 16. DATE T.D. REACHED 1/15/85 17. DATE COMPL. (Ready to prod.) Plugged 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 4702 KB 19. ELEV. CASINGHEAD N/A

20. TOTAL DEPTH, MD & TVD 5580 MD 1/2 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., HOW MANY* 23. INTERVALS DRILLED BY 0-5580 ROTARY TOOLS CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* Plugged and Abandoned 25. WAS DIRECTIONAL SURVEY MADE Yes

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

Table with 5 columns: CASING SIZE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, CEMENTING RECORD, AMOUNT PULLED. Data includes 13 3/8, 54.50lb, 96, 17 1/2, See attachment, None.

Table with 8 columns: LINER RECORD (SIZE, TOP, BOTTOM, SACKS CEMENT, SCREEN) and TUBING RECORD (SIZE, DEPTH SET, PACKER SET). Data includes N/A.

Table with 2 columns: 31. PERFORATION RECORD (Interval, size and number) - NONE; 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. (DEPTH INTERVAL, AMOUNT AND KIND OF MATERIAL USED) - None.

Table with 8 columns: PRODUCTION (DATE FIRST PRODUCTION, PRODUCTION METHOD, WELL STATUS, DATE OF TEST, HOURS TESTED, CHOKER SIZE, PROD'N. FOR TEST PERIOD, OIL-BBL., GAS-MCF., WATER-BBL., GAS-OIL RATIO).

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS Cementing Attachment

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records. SIGNED: Bret D. Cook TITLE: Agent DATE: FEB 20 1985

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

OPERATOR

FARMINGTON RESOURCE AREA BY: smm

ACCEPTED FOR RECORD

P & A Report

file

Chuska

Well No. Navajo Tribal 43-2

Sec. 1. T42S R24E.

San Juan County, Ut.

Plugging completed 11/16/85 1830 hours

Plugs set

5170-5270'	47 socks	Class B
4310-4410	60 "	"
2362-2462	93 "	"
1374-1474	37 "	"
60 to surface	17 "	"

Called in by Ralph Sloan

11/17/85 900 hrs

OK
JRB
11/17/85