

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

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL

DEEPEN

b. TYPE OF WELL

OIL WELL

GAS WELL

OTHER

SINGLE ZONE

MULTIPLE ZONE

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS AND TELEPHONE NO.

3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

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

At surface 2400' FNL 810' FWL

At proposed prod. zone Same as above

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

appx 4.5 miles from Aneth, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 3/4 of mile
(Also to nearest drilg. unit line, if any)

16. NO. OF ACRES IN LEASE

49,997 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL

n/a

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 2 miles

19. PROPOSED DEPTH

5613 TD

20. ROTARY OR CABLE TOOLS

Rotary

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

4313' KB

22. APPROX. DATE WORK WILL START*

January '92

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 5/8	K-55	24.00 ppf	500'	371 sx Class 'G' cement w/2% CaCl and 1/4 lb/sk Celloflake
5 1/2	K-55	15.5 ppf	5613'	371 sx Class 'G' cement 6% gel and 1/4 lb/sk Celloflake

REFER TO ATTACHED POINT DRILLING PLAN etc.

CONFIDENTIAL

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 [Signature]

TITLE Landman

DATE 2/3/91

(This space for Federal or State office use)

PERMIT NO. 43-037-31728

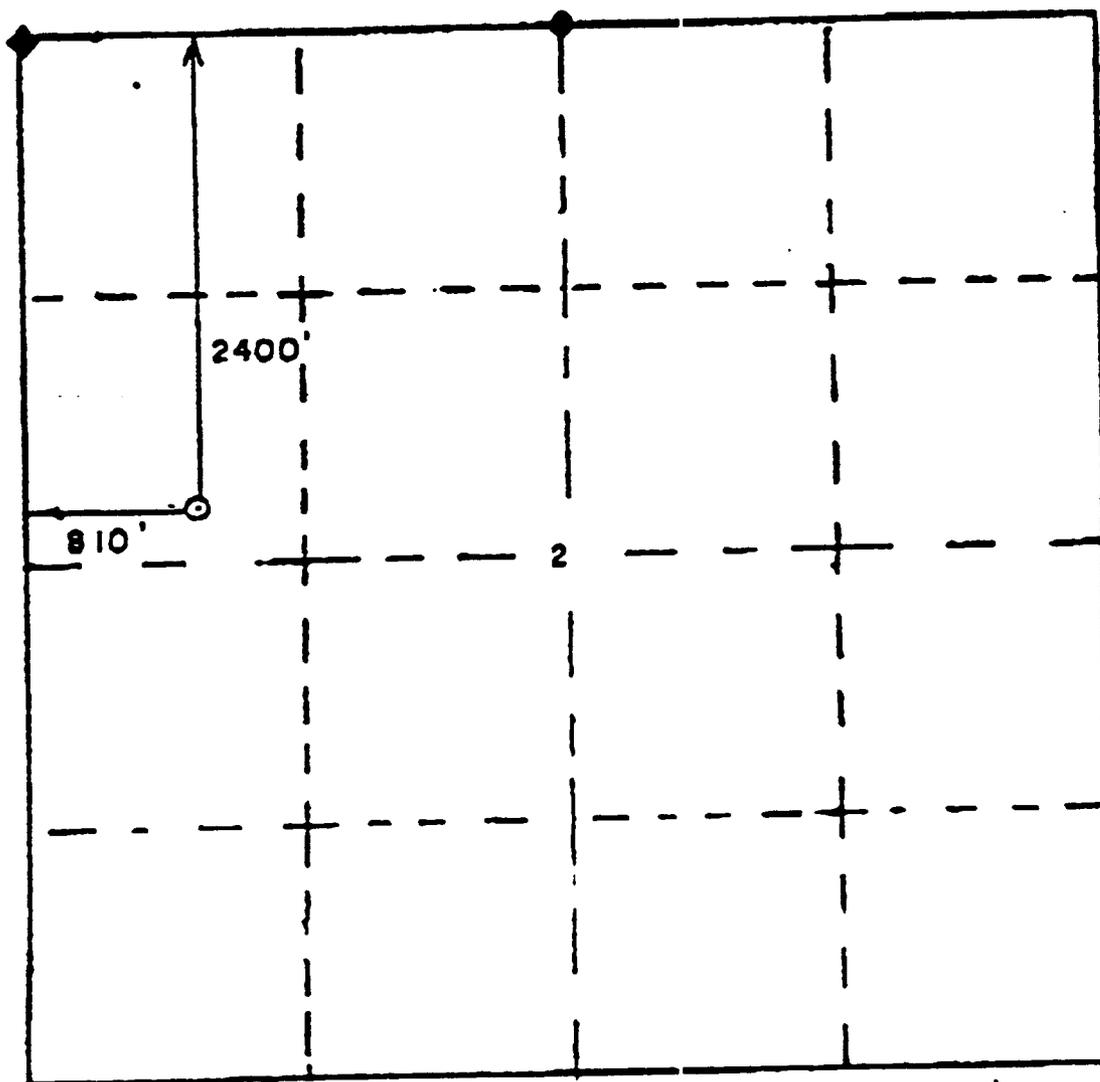
APPROVAL DATE _____

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

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.

WELL LOCATION PLATWELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Lightning Rock 2-E

2400' FNL & 810' FWL

Section 2, T.42 S., R.25 E., SLM

San Juan County, UT

4500' ground elevation

State plane coordinates from seismic control:

X = 2,685,160 Y = 190,062

sta. 632.5 line 400-19(S)

The above is true and correct to my knowledge and belief.

23 October 1991

Gerald G. Huddleston

CHUSKA ENERGY COMPANY
LIGHTNING ROCK 2-E WELL PAD
AND PIPELINE
7.5' Series 1989
ANETH, UTAH

LIGHTNING ROCK 2-E
WELL PAD

SURVEYED AREA

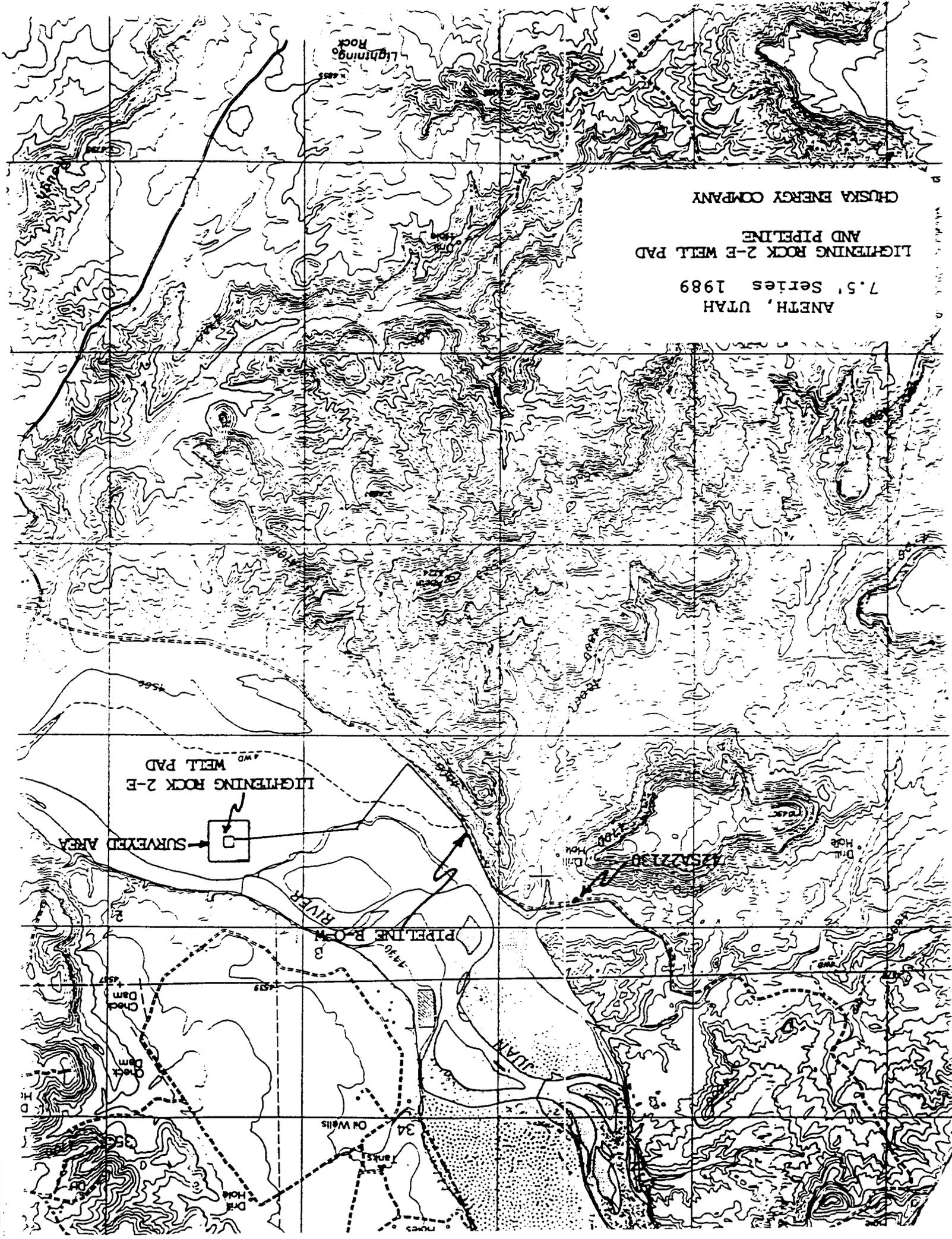
PIPELINE R-O-M

JUAN
RIVER

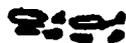
Check
Dam

Check
Dam

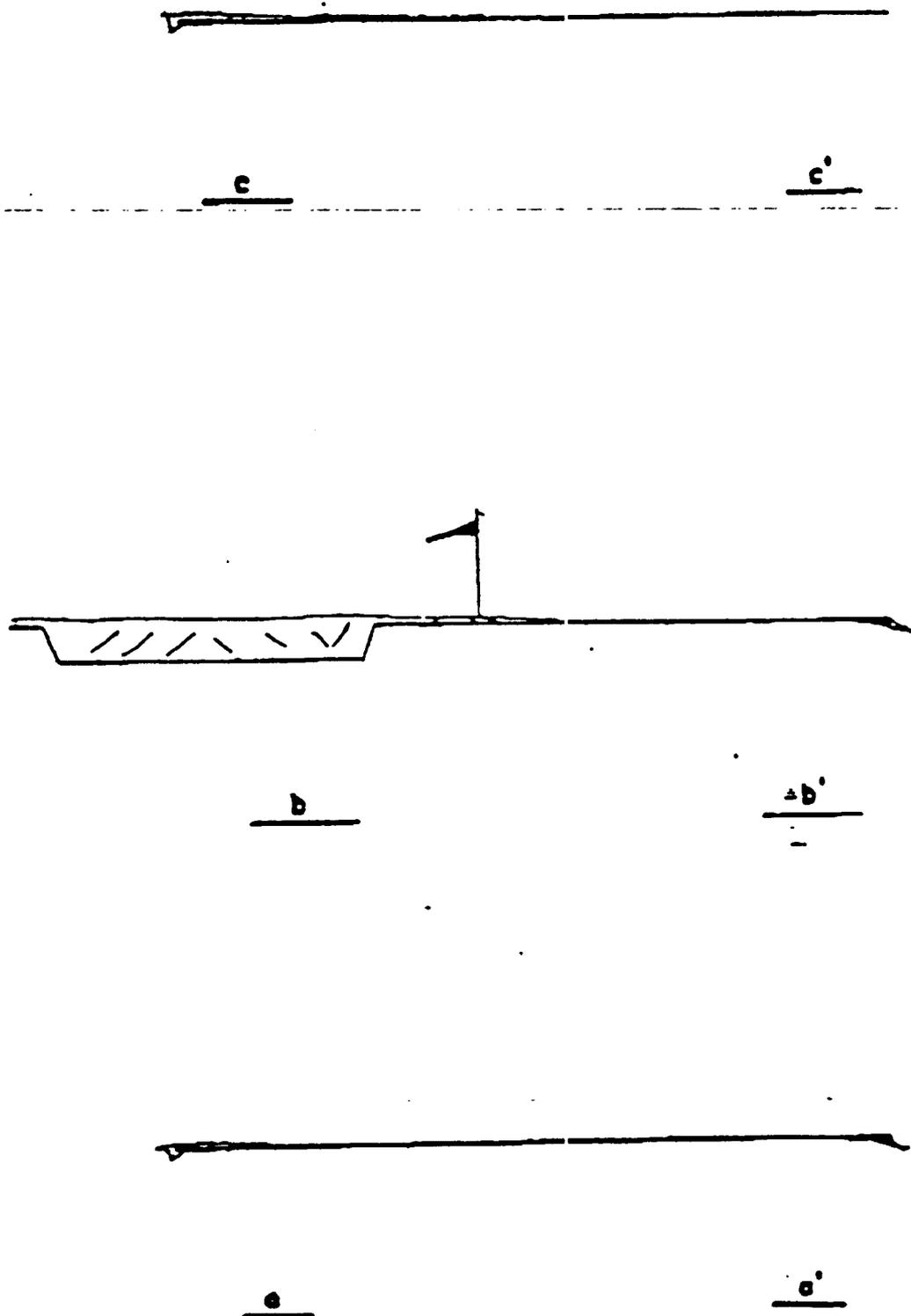
Oil Wells



CROSS SECTION

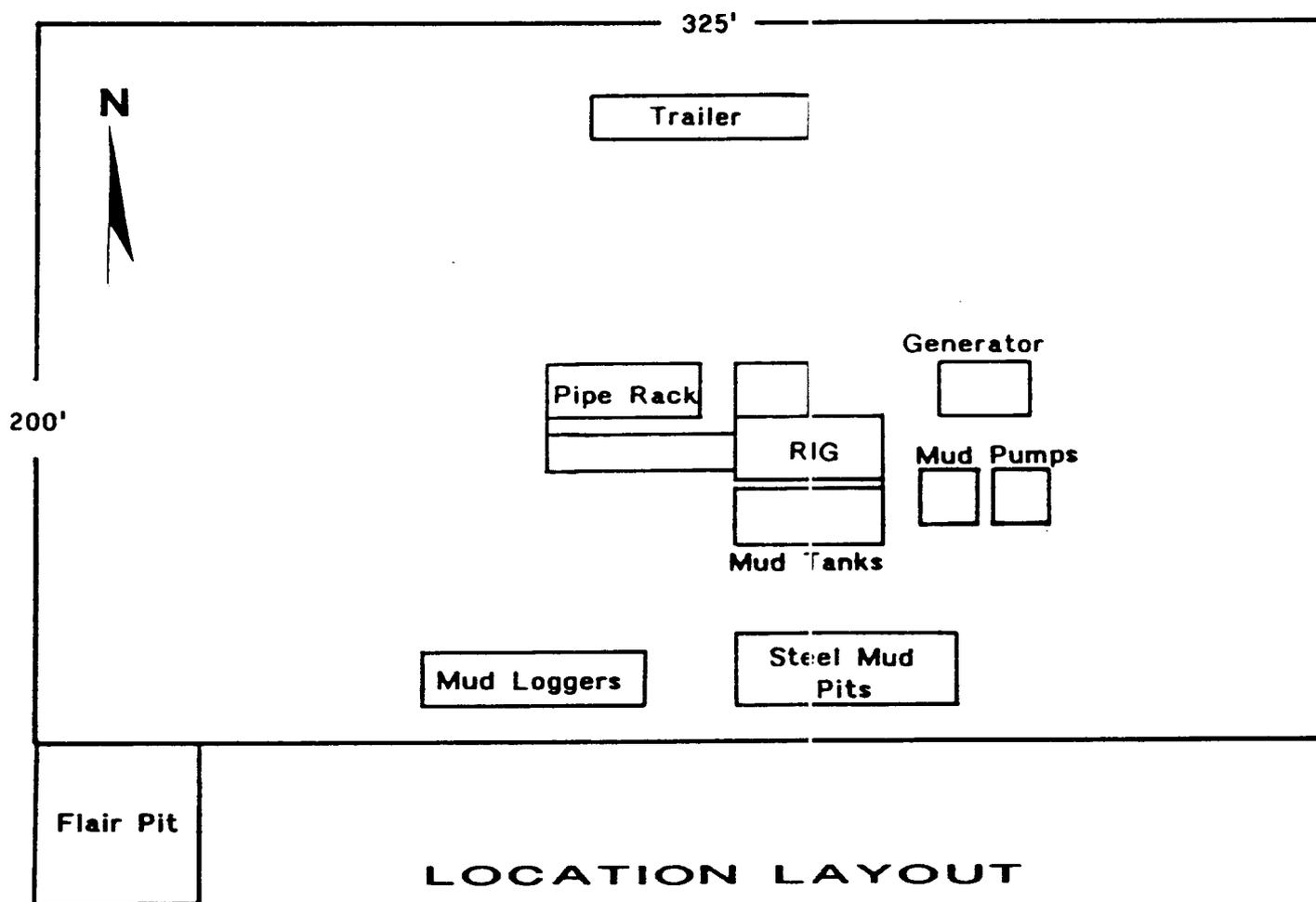
Lightning Rock 2-ECut // // // //
Fill 

1"=50' vert. & horiz.



CHUSKA ENERGY COMPANY

CHUSKA ENERGY COMPANY
LIGHTING ROCK 2E WELL LOCATION
2-T42S-R25E
2400' FNL 810' FWL
San Juan County, Utah



CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Lighting Rock 2E Well
Section 2-T42S-R25E
2400' FNL 810' FWL
San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4313' KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.	
569	Navajo	+3449	
1089	Chinle	+3424	
2369	DeCher	+2144	
2579	Organ Rock	+1934	
3209	Cedar Mesa	+1304	
4318	Hermosa	+195	
5193	Upper Ismay	-680	
5292	Lower Ismay	-779	
5363	Desert Crk	-850	
5494	Akah	-981	primary
5613	Total Depth	-1100	

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5,613'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

371 sx Class 'G' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 426 ft³.

SECOND STAGE

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 616 ft³.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be January '92. Well must be drilled during dry season from August to March.

EXHIBIT "A"
BLOWOUT PREVENTER

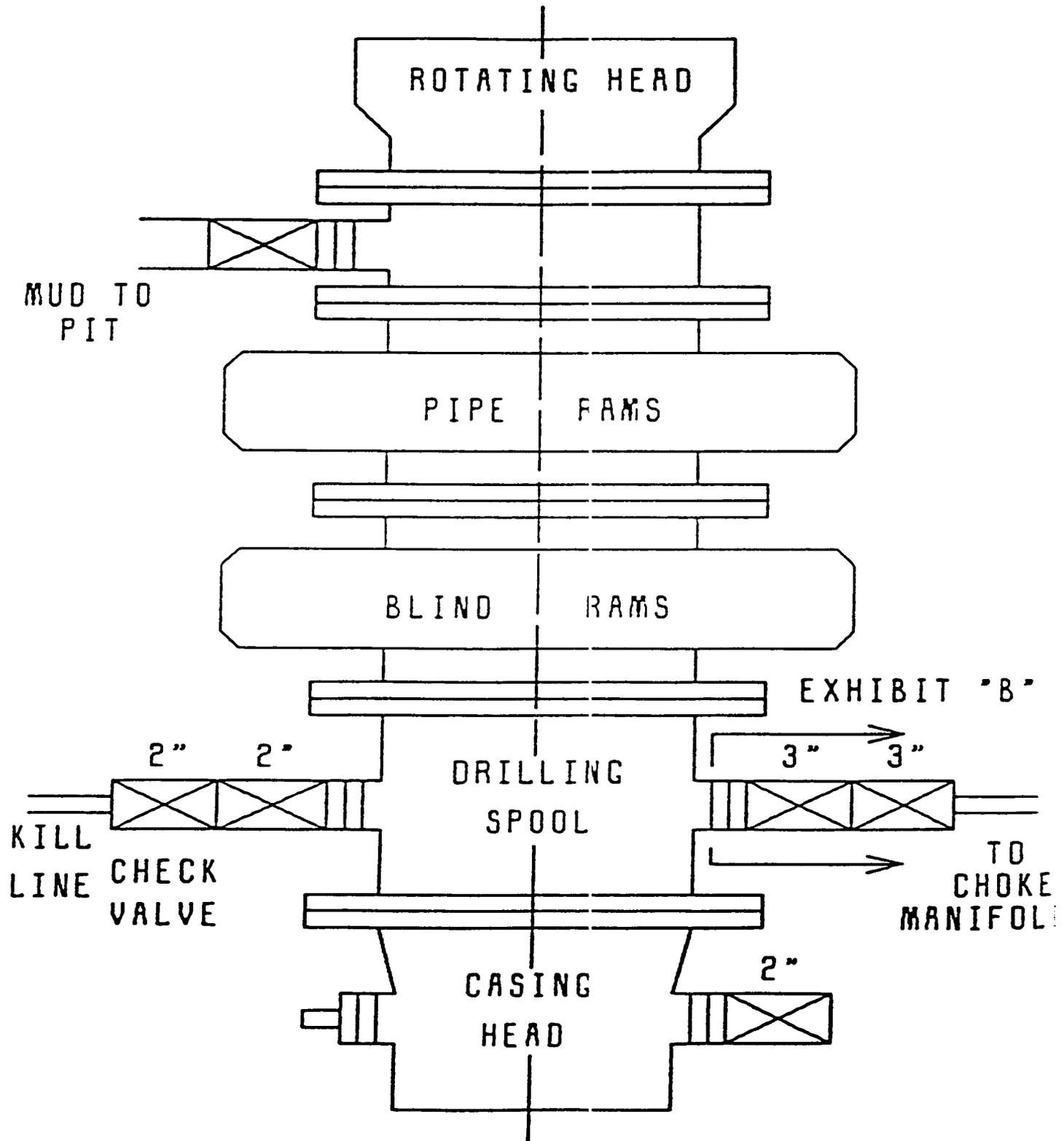
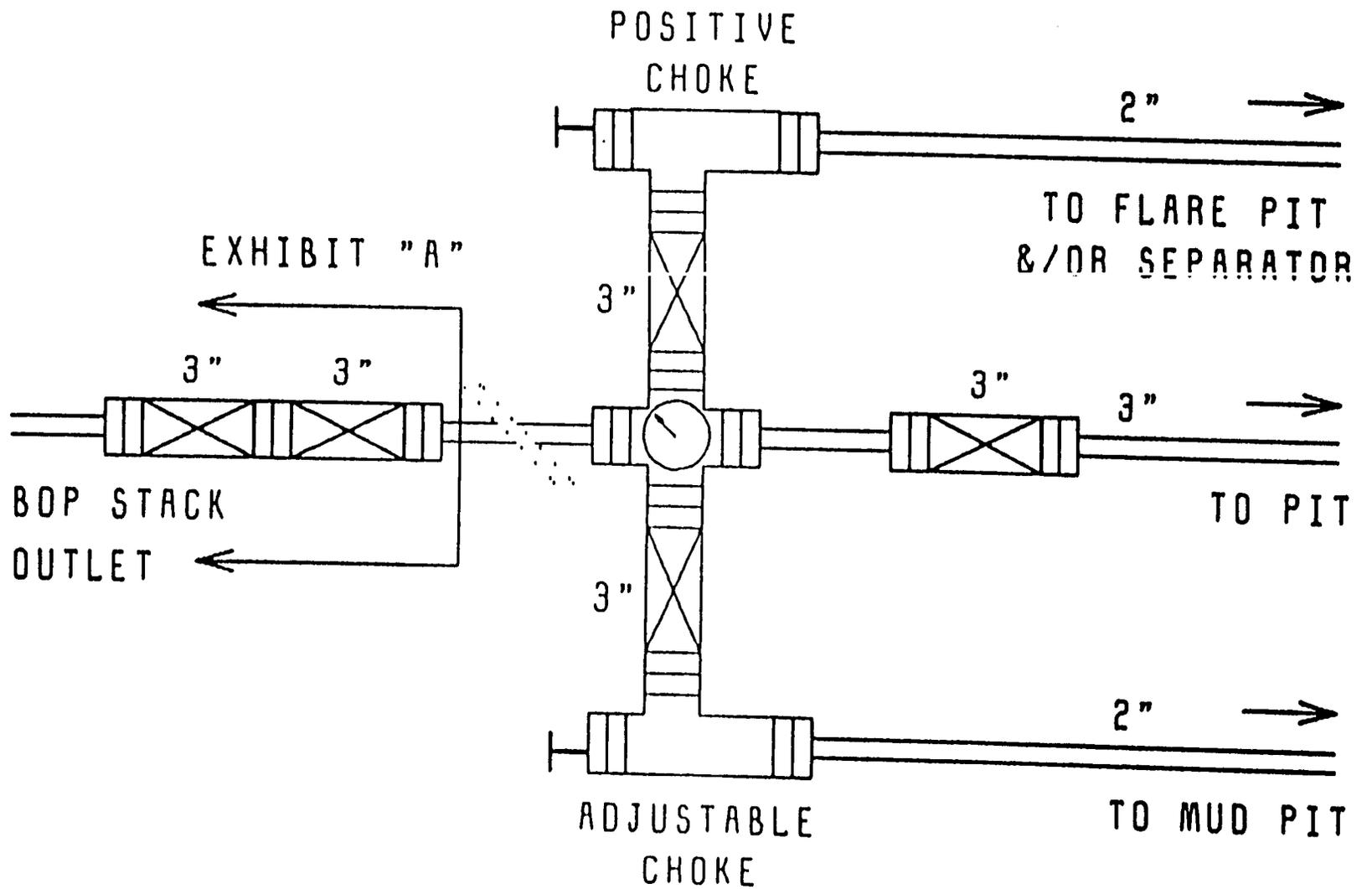


EXHIBIT "B"
CHOKE MANIFOLD



Lighting Rock 2E
2400' FNL 810' FWL
Section 2-T42S-R25E
San Juan County, Utah

GENERAL COMPLETION PROCEDURE:

If the well is determined to be productive, move in completion rig. Perforate, acidize, and test each productive porosity zone. Completion work will commence after Sundry Notice approval is received. Detailed procedures will follow.

PLUGGING AND ABANDONMENT:

If the well is determined not to be productive, the well bore will be plugged as per BLM, State and BIA requirements.

DETAILED DRILLING PROGRAM

DATE: November 25, 1991
WELL NAME: Lighting Rock WELL NO.: 2E
LOCATION: Section 2-T42S-R25E
2400' FNL 810' FWL
San Juan County, Utah
ELEVATION: 4313' KB
TOTAL DEPTH: 5613' KB
PROJECTED HORIZON: Akah @ 5494'

DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud and intent to run surface casing.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to +500'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1" at 500'. Deviation surveys will be run at least at 250' and at casing point.
4. Run 8 5/8", 24lb/ft, K-55, STC casing to TD. Cement with 371 sx (427 ft) of Class 'G' cement with 2% CaCl₂ and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
5. WOC a minimum of 4 hours prior to nipping up BOP stack and related equipment. See BOP schematics for details.
6. Ensure that plug has been down at least 8 hours prior to commencing pressure testing procedures. Pressure test BOP to 2,000 psig for 30 minutes. Pressure test manifold and all related equipment to 2,000 psig. Pressure test casing to 1,500 psig for 30 minutes.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 degrees at TD. with maximum allowable rate of change to be 1 degree per 100'.

8. Run open hole logs and evaluate. Coring and/or drillstem testing will be as per wellsite geologist's recommendation.
9. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to TD. Set stage cementing collar at + 3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing to surface in two stages per cementing program in 10-point Drilling Plan
10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

LIGHTING ROCK 2E
2400' FNL 810' FWL
Section 2-T42S-R25E
San Juan County, Utah

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Existing roads will be maintained, as needed, while operations are in progress

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Approximately 1.25 miles of new road will be built into the location. Should the well be successful it will be maintained as ROW for a pipeline.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited at an elevation 4520' or higher.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval

of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. In place of a reserve pit we will use a steel mud pit. All drilling fluids, cuttings and chemical waste will be stored in the steel mud pits. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or airstrips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a generally northwest to southeast trend and will require minimal cut. Top soil removed from the pad will be stored at wellsite. The terrain will be returned to as near its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA strips. There are no residents in the immediate area of the site. Since we will be using steel mud pits there will be no reserve pit to reclaim.

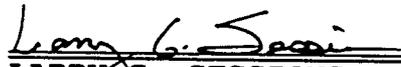
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11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NM 87401
LARRY G. SESSIONS

12. CERTIFICATION

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


LARRY G. SESSIONS
OPERATIONS MANAGER



CHUSKA ENERGY COMPANY

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

September 7, 1993

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

Attn: Mr. R.J. Firth
Associate Director

RE: Utah Division of Oil, Gas and Mining's
Reporting Requirements

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Dear Mr. Firth:

Enclosed please find the following reports and well logs run on wells drilled by Chuska Energy Company during the period January 1, 1992 forward. The Production Reports were filed in June under a separate cover letter by our home office, Harken Energy Company, out of Dallas. We have received conflicting statements as to whether or not the data was received. Therefore, a second set of Production reports from January 1992 forward are also forwarded to your office under this cover letter.

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

Barnes 18M
Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Crane 35H
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Heron 35H(A)
Jack 31G
Kokopelli 29I
Lark 19B
Lark 19B(G)
Lighting Rock 2E
Lizard 4M
Lone Mountain Creek 12F-1

Monument 17E-2
Mule 31K
Mule 31K(N)
Mule 31M
NW Cajon 1I-1
North Heron 35C
Northwest Cajon 6E
North Cajon Mesa 5E-1
North Ruins 16K
Red Lake 25B
Tower 1F
Box Canyon 5F
Shalene 11K
South Triangle 7I
West Clay Hill 5B(A)

RECEIVED

SEP 10 1993

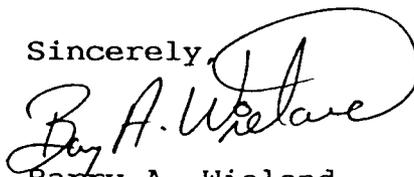
DIVISION OF
OIL, GAS & MINING

LOGS

Barnes 18M(N)
Brown Hogan 1A-2
Burro 33I
Clay Hill 33-0
Copperhead 15E
D.C. Anticline 35K
Heron 35H
Jack 31G
Kokopelli 29I
Lark 19B(G)
Lighting Rock 2E
Lone Mountain Creek 12F-1
Mule 31K(N)
Mule 31M
North Cajon Mesa 5E-1
North Heron 35C
N.W. Cajon 1I-1
N.W. Cajon 6E
Red Lake 25B
West Clay Hill 5B(A)

If you should have any further questions, please don't hesitate to contact me, or Nell Lindenmeyer, at 505-326-5525.

Sincerely,



Barry A. Wieland
Operations Manager

Enclosures
cc: Well File

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING3. LEASE DESIGNATION AND SERIAL NO.
NOG 8702-1116

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
NAVAJO TRIBAL14. TYPE OF WELL: OIL WELL GAS WELL DEW Other _____

7. UNIT AGREEMENT NAME

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

8. FARM OR LEASE NAME

2. NAME OF OPERATOR

9. WELL NO.

Chuska Energy Company

10. FIELD AND POOL OR WILDCAT

1. ADDRESS OF OPERATOR

11. SEC. T. R. M. OR BLOCK AND CORNER OR AREA

3315 Bloomfield Hwy, Farmington, N.M. 87401 595-326-5525

Lighting Rock 2E
Wildcat
Sec. 2, T42S, R25E

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

At surface 2400' FNL 810' FWL

At top prod. interval reported below

At total depth

Same

19. API NO. DATE ISSUED

43-037-31728

12. COUNTY 12. STATE
San Juan Utah

13. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Specify in notes) 18. ELEVATIONS (OF. RES. AT, CR. ETC.) 19. DEPT. CASINGWELL

4-26-92

5-17-92

P&A 5/19/92 (Per Summary Plug & Aband)

4500' GL/4513' KB

4500' GL

20. TOTAL DEPTH, MD & TVD 21. PLUG BACK T.D. MD & TVD 22. IF MULTIPLE COMPL. HOW MANY 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS

5550' MD&TVD

P&A

0

Yes

No

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

Yes

26. TYPE ELECTRIC AND OTHER LOGS LOG
BH Sonic/CNL Density/Dual Laterlog & FMS
Check Shot survey27. WAS WELL CORED YES NO (Specify conditions)
DRILL STEM TEST YES NO (See separate sheet)No
YES

28. CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB. FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT FILLED
13 3/8 H-40	48#	89'	17 1/2	350 SX CL 'G'	
8 5/8 J-55	24#	1309'	11	700 SX CL 'G'	

29. LINER RECORD				30. TUBING RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Briefly, size and number)

None

SEP 10 1993

32. ACID, SHOT, FRACTURE CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION
DATE FIRST PRODUCTION PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or Shut-in)

DATE OF TEST	BOULES TESTED	CHOKE SIZE	PROD. FOR TEST PERIOD		GAS—MCF.	WATER—GAL.	OIL—GAL.	OIL—MCF.
			OIL—GAL.	GAS—MCF.				

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

35. LIST OF ATTACHMENTS

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED BARRY A. WIELAND

TITLE OPERATIONS MANAGER

DATE 5-27-93

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filed prior to this time, all logs, tests, and directional surveys as required by Utah Rules should be attached and submitted with this report.

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.

ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

ITEM 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

ITEM 33: Submit a separate completion report on this form for each interval to be separately produced (see instructions for items 22 and 24 above).

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.	
5-16-92			DST Interval 5315-5349', Lower Ismay	
			Initial Hydrostatic = 2669	
			Initial First Flow = 13.4	10 Min.
			Final First Flow = 19.8	
			Initial First Closed In = 19.8	
			Final First Closed In = 2097.4	60 Min.
			Initial Second Flow = 28.3	
			First Second Flow = 42.7	30 Min.
			Initial Second Closed In = 42.7	
			Final Second Closed in = 1960.5	60 Min.
			P & A PLUGS	
			EXCESS	SX
			100%	245
			100%	60
			100%	60
			100%	110
			50%	40
			50%	20
PLUG #	Depth	FT.	FORMATION	
#1	5548-4818	730'	Akah, DC, Ismay	
#2	4367-4217	150'	Hermosa	
#3	2422-2292	130'	DeChelly	
#4	1370-1030	340'	Chinle & 8/5/8" Cg Shoe	
#5	620-492	128'	Navajo	
#6	60-surface	60'	Surface	

38.

38. GEOLOGIC MARKERS

Name	Meas. Depth	True Vert. Depth	Top
DEChelly	2367'	2367'	
Cutler	2619'	2619'	
Hermosa	4323'	4323'	
U. Ismay	5192'	5192'	
Hovenweep Sh	5296'	5296'	
L. Ismay	5306'	5306'	
Gothic Sh	5356'	5356'	
Desert Creek	5389'	5389'	
Chimney Rock Sh	5498'	5498'	
Akah	5509'	5509'	

October 1990)
 456789
 1992

UNITED STATES DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

FOR APPROVED OMB NO 1004-0137
 Expires: December 31, 1991

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

2. TYPE OF COMPLETION: NEW WELL WORK OVER DEEPEN PLUG BACK DIFF. RENVR. Other P&A

3. NAME OF OPERATOR
 Chuska Energy Company

4. ADDRESS AND TELEPHONE NO.
 3315 Bloomfield Highway, Farmington, NM 87401 505-826-5525

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
 At surface 2400' ENL 810' FWL
 At top prod. interval reported below
 At total depth Same

14. PERMIT NO. 43-037-3728 DATE ISSUED _____

6. TRASS DESIGNATION AND SERIAL NO.
 NOG 8702-1116

7. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Navajo Tribal

8. UNIT AGREEMENT NAME
 N/A

9. FARM OR LEASE NAME, WELL NO.
 Lighting Rock 2E

10. API WELL NO.
 43-037-70062-91

11. FIELD AND POOL OR WILDCAT
 Wildcat

12. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
 2-T42S-R25E

13. COUNTY OR PARISH
 San Juan Utah

15. DATE SPUDDED 4-26-92 16. DATE T.D. REACHED 5-17-92 17. DATE COMPL. (Ready to prod.) P&A 18. ELEVATIONS (OF. RKB, RT. GR., ETC.)* 4500' GL/4513' KB 19. ELEV. CASINGHEAD 4500' GL

20. TOTAL DEPTH, MD & TVD 5550' MD&TVD 21. PLUG BACK T.D., MD & TVD P&A 22. IF MULTIPLE COMPL., HOW MANY* 0 23. INTERVALS DRILLED BY ROTARY TOOLS Yes 24. CABLE TOOLS No

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)
 NONE 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN BH Sonic/CNL Density/Dual Laterlog & FMS Check spot survey 27. WAS WELL CORRED No

CONFIDENTIAL

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

CASING SIZE GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD.	AMOUNT PULLED
13 3/8 H-40	48#	89'	17 1/2	350 SX CL 'G'	
8 5/8 J-55	24#	1309'	11	700 SX CL 'G'	

29. LINER RECORD 30. TUBING RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number) NONE 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

SEP 10 1992

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)

DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

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

35. LIST OF ATTACHMENTS ACCEPTED FOR RECORD

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records
 SIGNED D. A. Wilcox TITLE Operations Manager DATE JUL 30 1992

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

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.

OPERATOR

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS		6. Lease Designation and Serial Number NOG 8702 1116			
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT for such proposals.		7. Indian Allottee or Tribe Name			
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) DRY		8. Unit or Communitization Agreement NAVAJO TRIBAL			
2. Name of Operator Chuska Energy Company		9. Well Name and Number Lighting Rock 2E			
3. Address of Operator 3315 Bloomfield Highway, Farmington, N. M. 87401		10. API Well Number 43037-31728			
4. Telephone Number 505-326-5525		11. Field and Pool, or Wildcat Wildcat			
5. Location of Well Footage 2400' FNL, 810' FWL QQ, Sec. T., R., M. : Sec. 2, T, 42S, R25E County : San Juan State : UTAH					
12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
<p style="text-align: center; font-size: small;">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off	<p style="text-align: center; font-size: small;">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </td> </tr> </table> <p>Date of Work Completion _____</p> <p style="font-size: x-small;">Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</p>	<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off
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<input checked="" type="checkbox"/> Abandonment * <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____	<input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off				

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)
Lighting Rock 2E was plugged with Class "G" cement on 5-19-92, by Aztec Rig #222 and Dowell Service Company. The following plugs were set with verbal approval from Wayne Townsend, BLM, to Larry A. Chambers, Chuska Energy Company

PLUG #	DEPTH	FT.	% EXCESS	SX	FORMATION	TOP
1	5548'-4818'	730'	100	245	Aksh, DC, Ismay	5190'
2	4367'-4217'	150'	100	60	Hermosa	4323'
3	2422'-2292'	130'	100	60	DeChelly	2367'
4	1370'-1030'	340'	100	110	Chinle + 8 5/8" Csg. Shoe	1309'
5	620'-492'	128'	50	40	Navajo	560'
6	60'-Surface	60'	50	20	Surface	

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

Name & Signature

(State Use Only)

Title Operations Manager

Date 5-26-93

SFP 10 1993

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993



SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.
NOG 8702 1116

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA. Agreement Designation
N/A

8. Well Name and No.
LIGHTING ROCK 2 E

9. API Well No. 31728
43-037-70062-91

10. Field and Pool, or Exploratory Area
WILDCAT

11. County or Parish, State
SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

(505) 326-5525

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FNL, 810' FWL
S2-T42S-R25E

13. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Completion or Recompletion Report and Log form.)

14. 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.)

LIGHTING ROCK 2E WAS PLUGGED WITH CLASS "G" CEMENT ON 5-19-92, BY AZTEC RIG #222 AND DOWELL SERVICE COMPANY. THE FOLLOWING PLUGS WERE SET WITH VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS, CHUSKA ENERGY COMPANY.

PLUG #	DEPTH	FT	%EXCESS	SX	FORMATION	TOP
1	5548'-4818'	730'	100	245	AKAH, DC, ISMAY	5190'
2	4367'-4217'	150'	100	60	HERMOSA	4323'
3	2422'-2292'	130'	100	60	DECHELLY	2367'
4	1370'-1030'	340'	100	110	CHINLE + 8 5/8" CASING SHOE	1809'
5	620'-492'	128'	50	40	NAVAJO	560'
6	60-SURFACE	60'	50	20	SURFACE	

019 FARMINGTON, N.M.
 92 JUN -8 PM 1:23
 RECEIVED

Approved as to plugging of the well bore, liability under bond to re-plug well? surface restoration to completion.

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

Signed [Signature]

Title OPERATIONS MANAGER

Date 6-4-92

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____

APPROVED

[Signature]

JUN 12 1992

AREA MANAGER

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*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Just Juan

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

NOG 8702 1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

LIGHTING ROCK 2 E

9. API Well No.

3728
43-037-70062-9T

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

SFP 0

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

(505) 326-5525

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FNL, 810' FWL
S2-T42S-R25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Completion or Recompletion Report and Log form)

13. 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.)

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PLUG #	DEPTH	FT	%EXCESS	SX	FORMATION	TOP
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5	620'- 492'	128'	50	40	NAVAJO	560'
6	60-SURFACE	60'	50	20	SURFACE	

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

Signed

Ray A. Walters

Title OPERATIONS MANAGER

Date 6-4-92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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*See instruction on Reverse Side

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT for such proposals.</small>		6. Lease Designation and Serial Number NOG 8702 1116
		7. Indian Allottee or Tribe Name NAVAJO TRIBAL
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other (specify) <u>DRY</u>		9. Well Name and Number <u>Lighting Rock 2 E</u>
2. Name of Operator <u>Chuska Energy Company</u>		10. API Well Number <u>43-037-31728</u>
3. Address of Operator <u>3315 Bloomfield Highway, Farmington, N.M. 87401</u>	4. Telephone Number <u>505-326-5525</u>	11. Field and Pool, or Wildcat <u>Wildcat</u>
5. Location of Well Footage <u>2400' FNL, 810' FWL</u> County : <u>San Juan</u> QQ, Sec. T., R., M. : <u>Sec. 2, T42S, R25E</u> State : <u>UTAH</u>		
12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
NOTICE OF INTENT <small>(Submit in Duplicate)</small>		SUBSEQUENT REPORT <small>(Submit Original Form Only)</small>
<input checked="" type="checkbox"/> Abandonment <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Recompletion <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____		<input type="checkbox"/> Abandonment * <input type="checkbox"/> New Construction <input type="checkbox"/> Casing Repair <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Change of Plans <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Other _____
Approximate Date Work Will Start _____		Date of Work Completion _____
<small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form. * Must be accompanied by a cement verification report.</small>		

13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work)

Plan was approved by Wayne Townsend, BLM, 4:15 P.M. , 5-18-92. P & A proposed time: 6:00 P.M., 5-19-92.

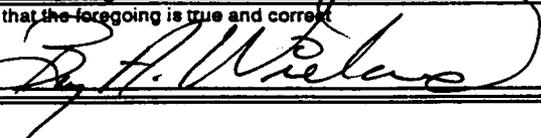
PLUGS:

NO.	DEPTH	FT.	%EC	SX	FORMATION	TOP
1	5140'-5550'	410	100	246	Akah, DC, Ismay	5190'
2	4270'-4370'	100	100	60	Hermosa	4320'
3	2320'-2420'	100	100	60	DeChelley	2370'
4	1259'-1359'	100	100	60	8 5/8" Csg Shoe	1309'
5	1040'-1140'	100	50	47	Chinle	1090'
6	510'- 610'	100	50	47	13 3/8" Csg. Shoe	90'
7	50'-Surface	50	50	24	Surface	

Plugs #1, #6, and #7 to contain 2% CaCl₂. Tag Plug #1 to verify depth prior to pumping
Plug #2. All plugs Class 'G' neat cement

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

Name & Signature



Title Operations Manager Date 5-26-93

(State Use Only)

SFP 0 1000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 37401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FNL, 810' FWL
S2-T42S-R25E

CONFIDENTIAL

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.

NOG 8702 1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

LIGHTING ROCK 2 E

9. API Well No.

43-037-70062-91 ³¹⁷²⁸

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> Notice of Intent	<input checked="" type="checkbox"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other _____
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

13. 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.)

PLAN WAS APPROVED BY WAYNE TOWNSEND, BLM, 4:15 PM, 5-18-92. P&A PROPOSED TIME: 6:00 PM, 5-19-92.

PLUGS:

NO.	DEPTH	FT	%EC	SX	FORMATION	TOP
1	5140'-5550'	410	100	246	AKAH, DC, ISMAY	5190'
2	4270'-4370'	100	100	60	HERMOSA	4320'
3	2320'-2420'	100	100	60	DE CHELLE	2370'
4	1259'-1359'	100	100	60	8 5/8" CSG SHOE	1309'
5	1040'-1140'	100	50	47	CHINLE	1090'
6	510'-610'	100	50	47	13 3/8" CSG SHOE	90'
7	50'-SURFACE	50	50	24	SURFACE	
				506		

PLUGS #1, #6, AND #7 TO CONTAIN 2% CaCl₂. TAG PLUG #1 TO VERIFY DEPTH PRIOR TO PUMPING
PLUG #2. ALL PLUGS CLASS "G" NEAT CEMENT.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

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

Signed Day H. Wilkane

Title OPERATIONS MANAGER

Date 5-15-92

(This space for Federal or State office use)

Approved by _____

Title _____

Conditions of approval, if any:

APPROVED

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.

*See Instruction on Reverse Side

AREA MANAGER

OPERATOR

IN REPLY REFER TO
(019)

UNITED STATES DEPARTMENT OF THE INTERIOR

BUREAU OF LAND MANAGEMENT
FARMINGTON RESOURCE AREA
1235 LA PLATA HIGHWAY
FARMINGTON, NEW MEXICO 87401

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 2E Lightning Rock

CONDITIONS OF APPROVAL

1. Plugging operations authorized are subject to the attached "General Requirements for Permanent Abandonment of Wells on Federal Leases."
2. Mark Kelly with the Farmington Office is to be notified at least 24 hours before the plugging operations commence (505) 326-6201.
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

Office Hours: 7:45 a.m. to 4:30 p.m.

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

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

5. Lease Designation and Serial No.

NOG 8702 1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

LIGHTING ROCK 2 E

9. API Well No. 31728

43-037-70062-91

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FNL, 810' FWL
S2-T42S-R25E

CONFIDENTIAL

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- Notice of Intent
- Subsequent Report
- Final Abandonment Notice

TYPE OF ACTION

- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion or well Completion or Recompletion Report and Log form.)

13. 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.)

PLAN WAS APPROVED BY WAYNE TOWNSEND, BLM, 4:15 PM, 5-18-92. P&A PROPOSED TIME: 6:00 PM, 5-19-92.

PLUGS:

NO.	DEPTH	FT	%EC	SX	FORMATION	TOP
1	5140'-5550'	410	100	246	AKAH, DC, ISMAY	5190'
2	4270'-4370'	100	100	60	HERMOSA	4320'
3	2320'-2420'	100	100	60	DE CHELLY	2370'
4	1259'-1359'	100	100	60	8 5/8" CSG SHOE	1309'
5	1040'-1140'	100	50	47	CHINLE	1090'
6	510'-610'	100	50	47	13 3/8" CSG SHOE	90'
7	50'-SURFACE	50	50	24	SURFACE	
				506		

PLUGS #1, #6, AND #7 TO CONTAIN 2% CaCl₂. TAG PLUG #1 TO VERIFY DEPTH PRIOR TO PUMPING PLUG #2. ALL PLUGS CLASS "G" NEAT CEMENT.

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

Signed Bay A. Williams Title OPERATIONS MANAGER Date 5-15-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

*See Instruction on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

John

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NOG 8702 1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

LIGHTING ROCK 2 E

9. API Well No. 31728
43-037-70062-91

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUNDRY NOTICES AND REPORTS ON WELLS

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

SUBMIT IN TRIPLICATE

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other	
2. Name of Operator CHUSKA ENERGY COMPANY	
3. Address and Telephone No. (505) 326-5525 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401	
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 2400' FNL, 810 FWL S2-T42S-R25E	

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompe t ion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>CEMENT SURFACE CASING</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Completion or Recompe t ion Report and Log (or-

13. 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 c- give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

MIRU AZTEC RIG #222 ON 5-1-92. DRILL OUT CEMENT FROM 80' TO 90', ON 5-2-92 WITH 11" BIT. DRILL 11" HOLE TO 1310' AND RUN 32 JOINTS 8 5/8", 24#, J-55 SURFACE CASING AND LAND AT 1309'. RIG UP DOWELL AND CEMENT WITH 700 SX CLASS "G" + 0.5% D-65 (17.2 PPG). PLUG DOWN AT 15:15 PM, 5-6-92, WITH 1250 PSIG. CIRCULATE 335 SX CEMENT SLURRY TO SURFACE. RECEIVED VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, AT 10:00 AM, 5-6-92.

SEP 10 1992

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

Signed Don A. Wilton Title OPERATIONS MANAGER Date 6-4-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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.

*See instruction on Reverse Side

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS <small>(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.)</small>		3. LEASE DESIGNATION & SERIAL NO. NOG8702 1116
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME Navajo Tribal
1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME
2. NAME OF OPERATOR Chuska Energy Company		8. FARM OR LEASE NAME
3. ADDRESS OF OPERATOR 3315 Bloomfield Highway, Farmington, N.M. 87401		9. WELL NO.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2400' FNL, 810 FWL At proposed prod. zone		10. FIELD AND POOL OR WILDCAT Lighting Rock 2 F - Wildcat
		11. SEC. T. R. M. OR BLM AND SURVEY OR AREA Sec. 2, T42S, R25E
14. API NO. Applied For <u>43-037-31728</u>	13. ELEVATIONS (Show whether OF, AT, OR, etc.)	12. COUNTY San Juan 11. 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 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) <u>Spud/Conductor Casing</u> <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		<small>(Note: Report results of multiple completion or well Completion or Recompletion Report and Log form.)</small>	
APPROX. DATE WORK WILL START _____		DATE OF COMPLETION _____	

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.)

MIRU Spuder Rig on 4-26-92. Spud with 17 1/2" bit at 10:00 A.M. and drill to 89.6'. Run 12 joints 13 3/8", 48#, H-40 and land at 89.2'. Cement conductor pipe with 350 sx Class 'G' cement. Plug down at 3:00 P.M., 4-28-92. Circulate 25 sx cement slurry to surface. Received verbal approval from Wayne Townsend, BLM, at 3:00 P.M. 4-27-92.

* Must be accompanied by a cement verification report.

SEP 01

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

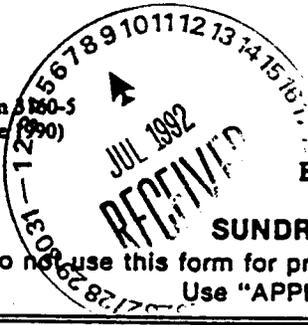
SIGNED [Signature] TITLE Operations Manager DATE 5-26-93

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY: _____

Form 100-5
(June 1990)



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

5. Lease Designation and Serial No.
NOG 8702 1116

6. If Indian, Allottee or Tribe Name
NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation
N/A

8. Well Name and No.
LIGHTING ROCK 2 E

9. API Well No. 31728
43-037-70062-91

10. Field and Pool, or Exploratory Area
WILDCAT

11. County or Parish, State
SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
CHUSKA ENERGY COMPANY

3. Address and Telephone No. (505) 326-5525
3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2400' FNL, 810 FWL
S2-T42S-R25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>SPUD/CONDUCTOR CASING</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion on Completion or Recompletion Report and Logform)

13. 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.)*

MIRU SPUDER RIG ON 4-26-92. SPUD WITH 17 1/2" BIT AT 10:00 AM AND DRILL TO 89.6'. RUN 12 JOINTS 13 3/8", 48#, H-40 AND LAND AT 89.2'. CEMENT CONDUCTOR PIPE WITH 350 SX CLASS "G" CEMENT. PLUG DOWN AT 3:00 PM, 4-28-92. CIRCULATE 25 SX CEMENT SLURRY TO SURFACE. RECEIVED VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, AT 3:00 PM, 4-27-92.

RECEIVED
BLM
92 JUN -8 PM 1:24
019 FARMINGTON, N.M.

14. I hereby certify that the foregoing is true and correct
Signed B. A. Wieland Title OPERATIONS MANAGER Date 6-4-92
(This space for Federal or State office use)

Approved by _____ Title _____
Conditions of approval, if any: **ACCEPTED FOR RECORD**

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 statement or representations as to any matter within its jurisdiction.

*See Instruction on Reverse Side

OPERATOR

FARMINGTON RESOURCE AREA
BY Sm

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

Field Report

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

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

3. Lease Designation and Serial No.
NOG 8702 1116

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

LIGHTING ROCK 2 E

9. API Well No.

43-037-70062-91 ³¹⁷²⁸

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

2400' FNL, 810 FWL
S2-T42S-R25E

12. CHECK APPROPRIATE BOX(S) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other <u>SPUD/CONDUCTOR CASING</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

(Note: Report results of multiple completion or Completion or Recompletion Report and Log (or))

13. 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.)*

MIRU SPUDER RIG ON 4-26-92. SPUD WITH 17 1/2" BIT AT 10:00 AM AND DRILL TO 89.6'. RUN 12 JOINTS 13 3/8", 48#, H-40 AND LAND AT 89.2'. CEMENT CONDUCTOR PIPE WITH 350 SX CLASS "G" CEMENT. PLUG DOWN AT 3:00 PM, 4-28-92. CIRCULATE 25 SX CEMENT SLURRY TO SURFACE. RECEIVED VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, AT 3:00 PM, 4-27-92.

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

Signed *Ray A. Wieland* Title OPERATIONS MANAGER Date 6-4-92

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any: _____

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.

*See instruction on Reverse Side

ENTITY ACTION FORM - FORM 6

OPERATOR Chuska Energy Company
ADDRESS 3315 Bloomfield Highway
Farmington, N.M. 87401

OPERATOR ACCT. NO. N 9290

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION				SPUD DATE	EFFECTIVE DATE	
					QQ	SC	TP	RG			COUNTY
A	99999	11577	43-037-31728	Lighting Rock 2E	SWNW	2	42S	25E	San Juan	4-26-92	
WELL 1 COMMENTS: Spudded at 10:00 A.M. Drilled to 89.6'. Ran and cemented surface 89.2'. <i>Entity added 11-3-93. Lee</i>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS: SEP 10 1993											
WELL 5 COMMENTS:											

- ACTION CODES** (See instructions on back of form)
- A - Establish new entity for new well (single well only)
 - B - Add new well to existing entity (group or unit well)
 - C - Re-assign well from one existing entity to another existing entity
 - D - Re-assign well from one existing entity to a new entity
 - E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

Signature _____
Operations Manager 5-26-92
Title _____ Date _____
Phone No. (505) 326-5525

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. Lease Designation and Serial No. NOG 8702-1116

6. If Indian, Allottee or Tribe Name Navajo Tribal

7. Unit Agreement Name N/A

8. Farm or Lease Name _____

9. Well No. _____

10. Field and Pool, or Wildcat Lighting Rock 2E

11. 00, Sec., T., R., N., or S14. and Survey or Area Wildcat

12. County or Partian San Juan 13. State Utah

1. Type of Work **DRILL** **DEEPEN** **PLUG BACK**

2. Type of Well **Oil Well** **Gas Well** **Other** _____

3. Name of Operator Chuska Energy Company

4. Address of Operator 3315 Bloomfield Highway, Farmington, N.M. 87401

5. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface 2400' FNL 810' FWL
At proposed prod. zone SW NW

6. Distance in miles and direction from nearest town or post office* Apprx. 4.5 miles from Aneth, Utah

7. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drive line, if any) 3/4 mile

8. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft. 2 miles

9. Elevation (Show whether DF, RT, GR, etc.) 4313' KB

10. No. of acres in lease 49,997

11. No. of acres assigned to this well N/A

12. Proposed depth 5613TD

13. Rotary or cable tool Rotary

14. Approx. date work will start* January, 1992

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4	K-55	24.00 ppf	500'	371 ex Class 'G' cement w/2% CaCl and 1/4 #/sk Celloflake
7 7/8	K-55	15.5 ppf	5613'	371 ex Class 'G' cement 6% gel and 1/4 #/sk Celloflake

Refer to 10 Point Drilling Plan, etc.

CONFIDENTIAL

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. I hereby certify that this report is true and complete to the best of my knowledge.

Signature: [Signature] Title: Operations Manager Date: 5-26-93

(This space for Federal or State office use)

APT NO. 43-037-31728 Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

*See Instructions On Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK
 DRILL DEEPEN

b. TYPE OF WELL
 OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
 Chuska Energy Company

3. ADDRESS AND TELEPHONE NO.
 3315 Bloomfield Highway, Farmington, NM 87401 505-326-5525

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 2400' FNL 810' FWL
 At proposed prod. zone Same as above *SW NW*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 appx 4.5 miles from Aneth, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. *3/4 of mile*
 (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE
 49,997 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL
 n/a

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. *2 miles*

19. PROPOSED DEPTH
 5613 TD

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 4313' KB

22. APPROX. DATE WORK WILL START*
 January '92

5. LEASE DESIGNATION AND SERIAL NO.
 NOG 8702-1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 NAVAJO TRIBAL

7. UNIT AGREEMENT NAME
 N/A

8. FARMOR LEASE NAME, WELL NO.
 Lighting Rock 2E

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA
 2-T42S-R25E

12. COUNTY OR PARISH
 San Juan

13. STATE
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
<i>8-5/8 12 1/4</i>	K-55 <i>5 3/4</i>	24.00 ppf	500'	371 sx Class 'G' cement w/2% CaCl and 1/4 lb/sk Celloflake
<i>5-1/2 7 1/2</i>	K-55 <i>5 1/2</i>	15.5 ppf	5613'	371 sx Class 'G' cement 6% gel and 1/4 lb/sk Celloflake

REFER TO ATTACHED LOG POINT DRILLING PLAN etc.

CONFIDENTIAL
CONFIDENTIAL

R649-3-3

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, 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 *[Signature]* TITLE *Lambert* DATE *11/3/91*

APPROVED AS AMENDED

(This space for Federal or State office use)
 PERMIT NO. *43-037-31728* APPROVAL DATE

[Signature]
 AREA MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

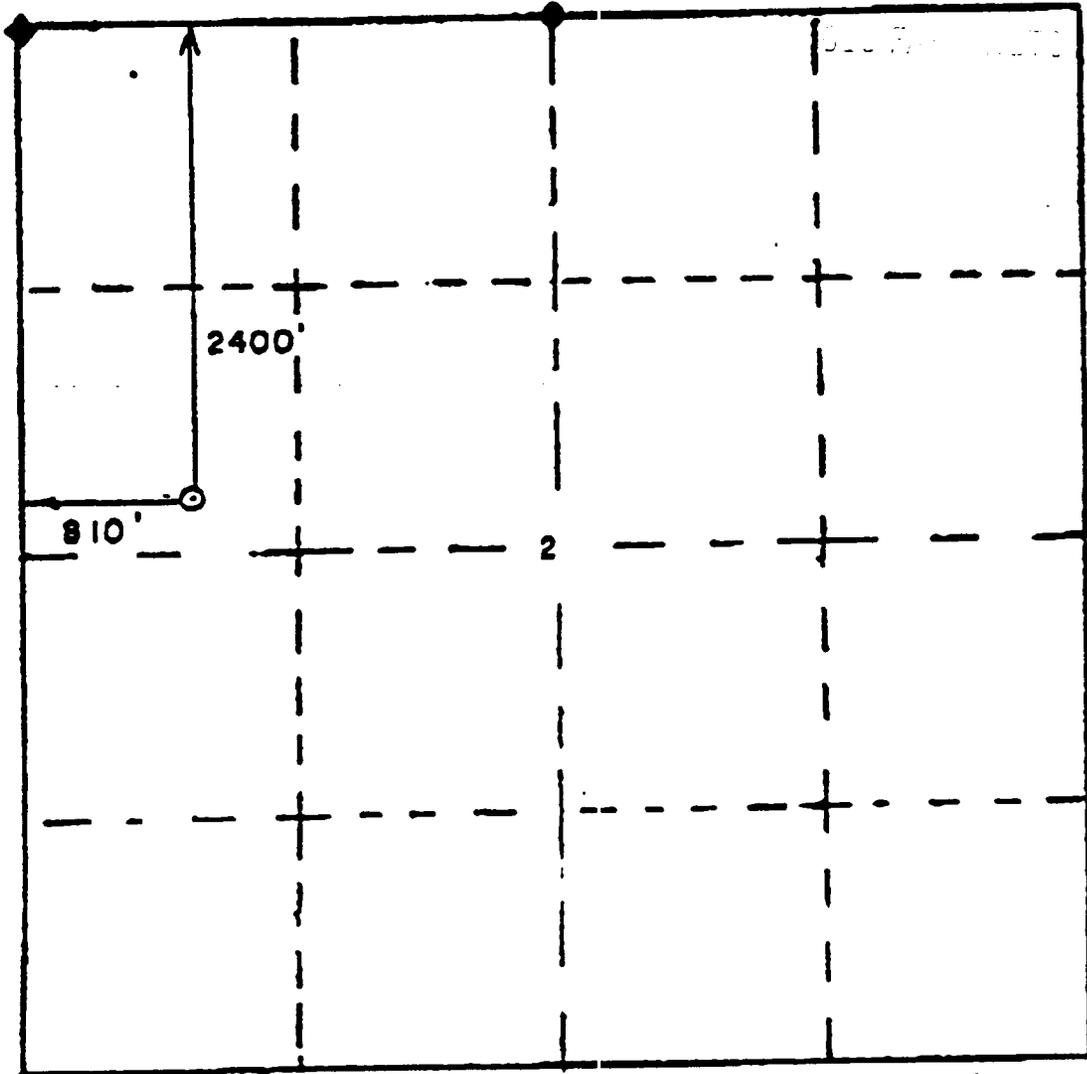
CONDITIONS OF APPROVAL, IF ANY:
 APPROVED BY _____ TITLE _____ DATE _____

*See Instructions On Reverse Side

RECEIVED
SLM

WELL LOCATION PLAT

91 DEC -5 AMM: 05



WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Lightning Rock 2-E
 2400' FNL & 810' FWL
 Section 2, T.42 S., R.25 E., SLM
 San Juan County, UT
 4500' ground elevation
 State plane coordinates from seismic control:
 X = 2,685,160 Y = 190,062
 sta. 632.5 line 400-19(S)

The above is true and correct to my knowledge and belief.

23 October 1991

Gerald G. Huddleston
 Gerald G. Huddleston
 REGISTERED L
 No.
 STATE

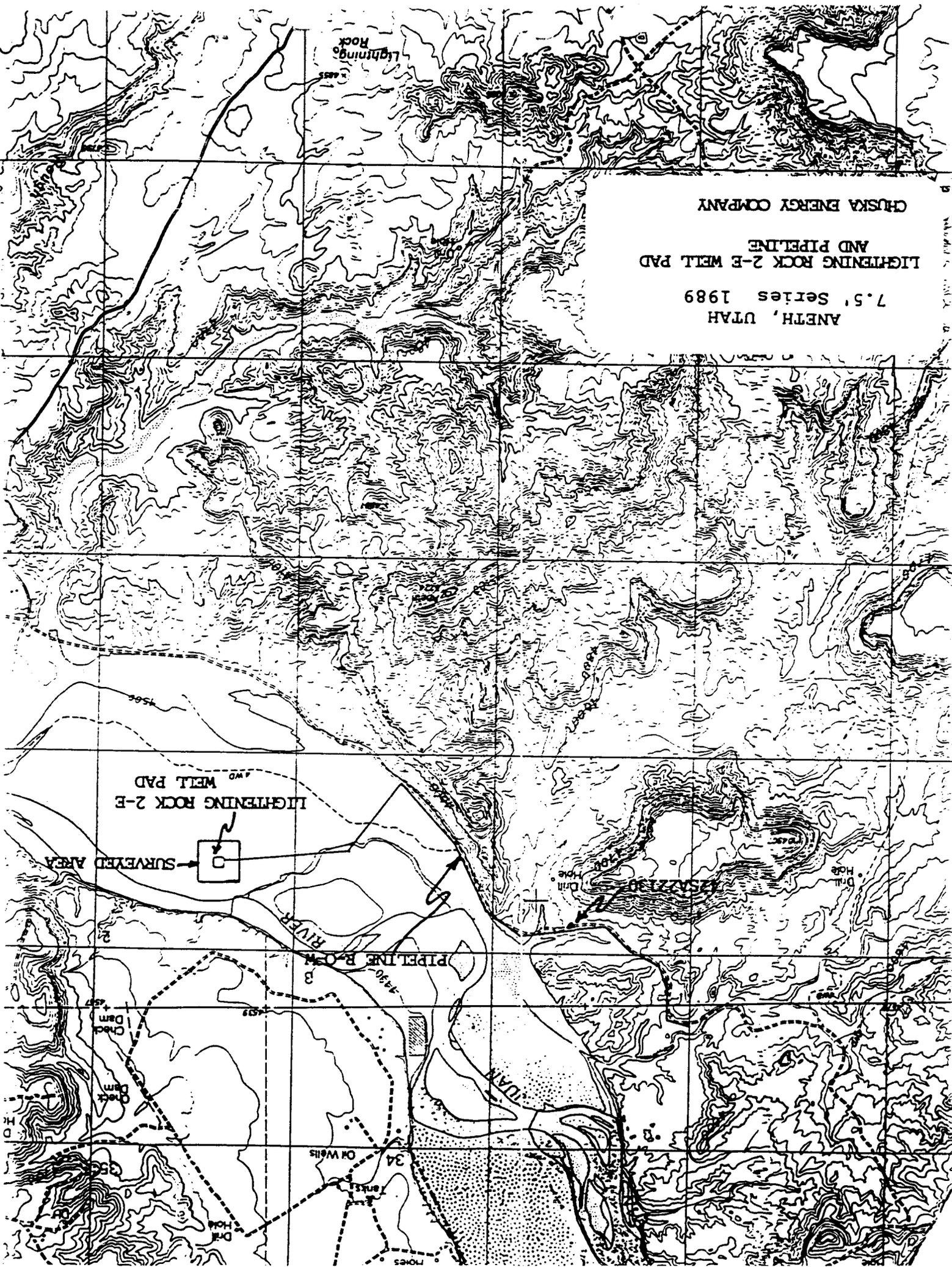
CHOSKA ENERGY COMPANY
LIGHTNING ROCK 2-E WELL PAD
AND PIPELINE
7.5' Series 1989
ANETH, UTAH

Lightning
Rock

LIGHTNING ROCK 2-E
WELL PAD

SURVEYED AREA

PIPELINE R.O.W.
RIVER

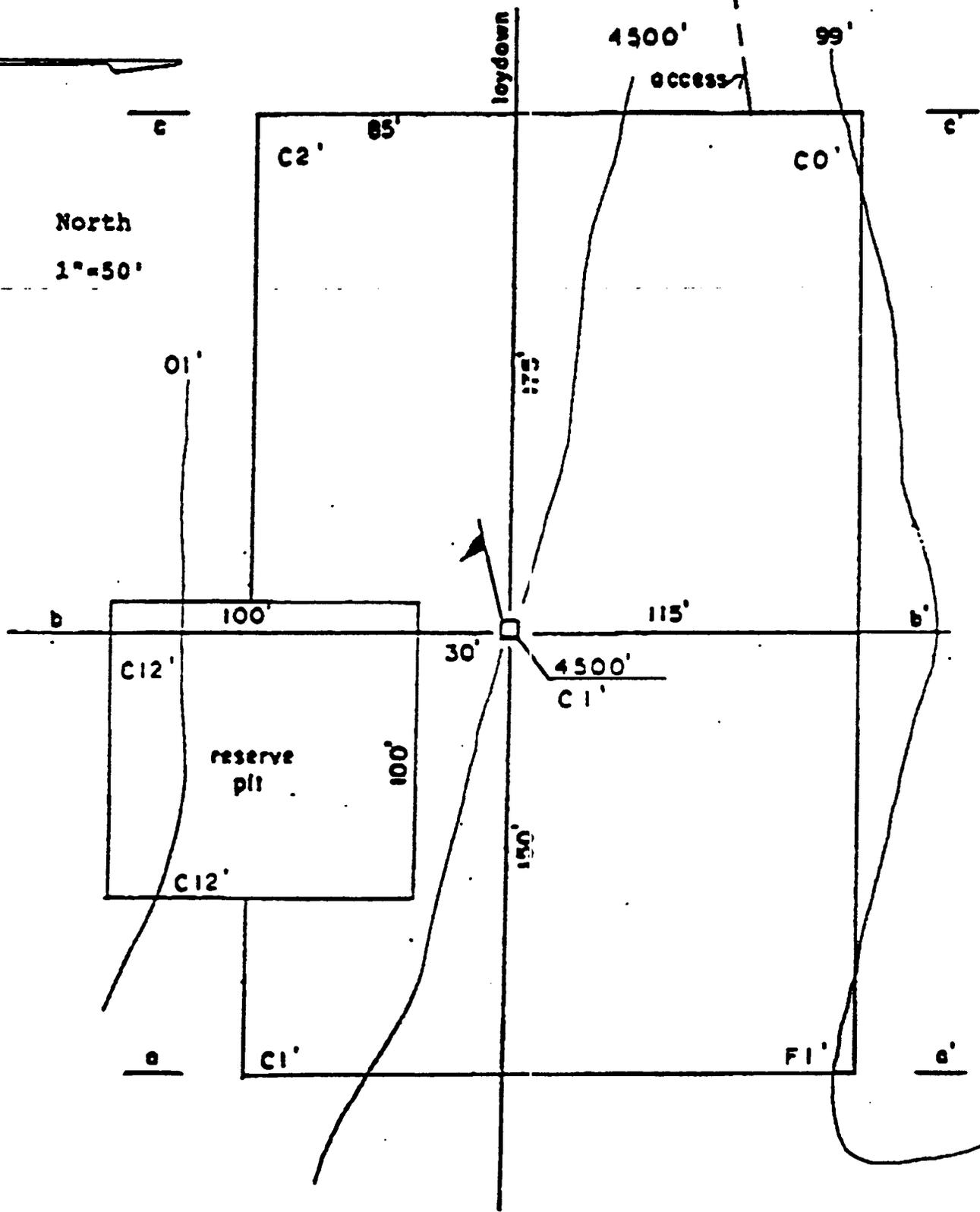


PLANVIEW SKETCH

Lightning Rock 2-E



North
1" = 50'



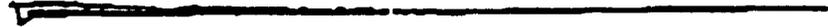
(11)

CROSS SECTION

Lightning Rock 2-E

Cut // // // //
Fill 

1"=50' vert. & horiz.



c

c'



b

b'

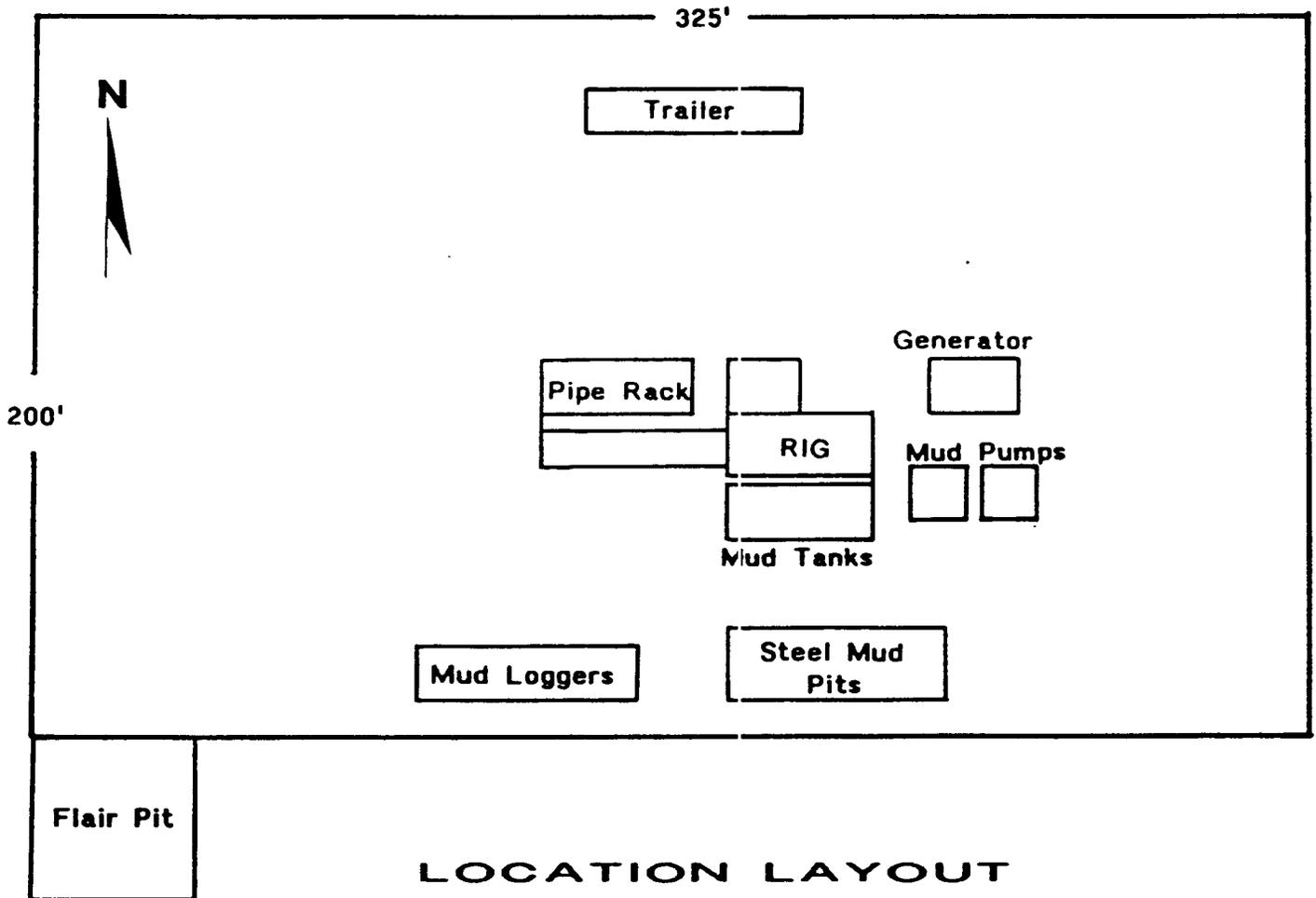


e

e'

CHUSKA ENERGY COMPANY

CHUSKA ENERGY COMPANY
LIGHTING ROCK 2E WELL LOCATION
2-T42S-R25E
2400' FNL 810' FWL
San Juan County, Utah



CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Lighting Rock 2E Well
Section 2-T42S-R25E
2400' FNL 810' FWL
San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrision

ELEVATION:

Surface elevation is 4313' KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.	
569	Navajo	+3449	
1089	Chinle	+3424	
2369	DeChena	+2144	
2579	Organ Rock	+1934	
3209	Cedar Mesa	+1304	
4318	Hermosa	+195	
5193	Upper Ismay	-680	
5292	Lower Ismay	-779	
5363	Desert Crk	-850	
5494	Akah	-981	primary
5613	Total Depth	-1100	

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5,613'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

371 sx Class 'G' Cement with 2% CaCl and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Slurry volume will be calculated at 100% excess over annular volume.

PRODUCTION CEMENTING:

First Stage

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 426 ft³.

SECOND STAGE

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft³/sk. Tail with 100 sx Class 'G' cement with 2% CaCl₂. Weight = 15.8 ppg, yield = 1.15 ft³/sk. Total of 616 ft³.

NOTE: Exact slurry volumes for the production string will be adjusted according to the caliper log which will be run prior to cementing. Special adjustments may be necessary if significant amounts of salt are drilled.

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

As abnormal pressure is not anticipated, a 2000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3000 psi system will be used, as per attached Exhibits "A" and "B". This will be a 10" x 900 series double ram preventer, equipped with a set of pipe and blind rams.

An accumulator system, with a pressure capacity sufficient to operate the rams three complete cycles without rig power, will be required as part of the rig equipment.

6. PROPOSED MUD PROGRAM

Surface to 3500'

Fresh water, gel, lime and native solids. Weight 8.3 - 8.7 ppg. Gel/lime sweeps are necessary for hole cleaning.

3500' to TD

Low solids, non-dispersed polymer system. Weight 8.6 - 8.8 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 cc or less. Fluid loss to be further reduced to 10 cc or less prior to coring, logging or DSTS.

7. AUXILIARY EQUIPMENT

- A. A kelly cock will be installed during drilling operations, with handle available on rig floor.
- B. Floor (stabbing) valves will be available, on the rig floor at all times, with necessary subs to fit all of the drilling assemblies.
- C. Mud will be the circulating fluid. No abnormal formation pressures are expected.

8. WELL EVALUATION

Open hole electric logging program will consist of a minimum program of DLL-MSFL-SP-GR-Cal, FDC-CNL-GR-Lithodensity from TD - 4000'

Drill stem testing will be as per the wellsite geologists' recommendations, based on shows. A mud logging unit will be utilized during drilling operations from 4000' to TD.

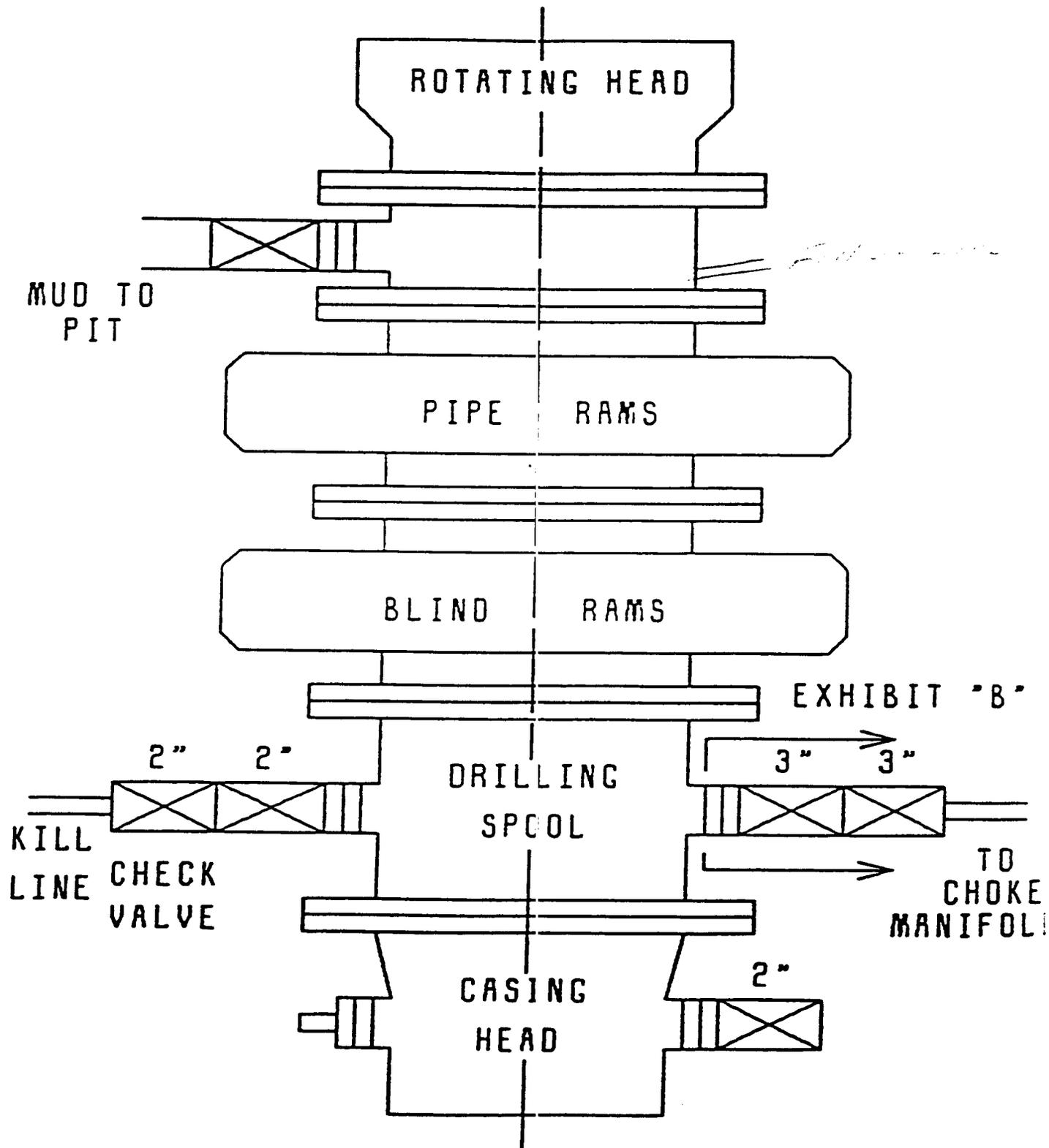
9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H₂S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be January '92. Well must be drilled during dry season from August to March.

EXHIBIT "A"
BLOWOUT PREVENTER



Block 2E
10' FWL
2S-R25E
Juan County, Utah

to be productive, move in
acidize, and test each
Completion work will
be approval is received.
allow.

not to be productive, the
as per BLM, State and BIA

WELL DRILLING PROGRAM

Number 25, 1991

Drilling Rock: WELL NO.: 2E

Location 2-T42S-R25E
10' FWL
Juan County, Utah

KB

KB

@ 5494'

DRILLING AND CEMENTING PROGRAM

Run up rotary tools. Notify BLM of
intent to run surface casing.

and rat hole. Mix mud prior to

hole to +500'. Use fresh water
mud for drilling surface hole. Well
depth is not to exceed 1" at 500'.
Casing will be run at least at 250' and

1000 ft, K-55, STC casing to TD.
1000 ft (427 ft) of Class 'G' cement
1 1/4 lb/sk Celloflake (sufficient
to circulate cement to surface.)

4 hours prior to nipping up
drilling equipment. See BOP
instructions.

Well has been down at least 8 hours
before beginning pressure testing procedures.
Pressure to 2,000 psig for 30 minutes.
Fold and all related equipment
before pressure test casing to 1,500 psig

Run casing with 7 7/8" bit. Drill
logs. Deviation surveys are to be
run on a bit trip, whichever
method maximum allowable deviation will be
with maximum allowable rate of
change per 100'.

8. Run open hole logs and evaluate. Coring and/or drillstem testing will be as per wellsite geologist's recommendation.
9. If the well is determined to be productive, run 5 1/2", 15.5 lb/ft, K-55, STC casing to TD. Set stage cementing collar at + 3,500'. In addition to placing centralizers over potential production zones, they will also be run to cover the aquifer sands of the Navajo and DeChelly formations, as per BLM stipulations. Cement production casing to surface in two stages per cementing program in 10-point Drilling Plan
10. Nipple down BOPE. Set 5 1/2" casing slips and cut off casing. Install well head. Release drilling rig and move rig off location.
11. If well is non-productive it will be plugged and abandoned as per State, BLM and Navajo Tribal stipulations.

LIGHTING ROCK 2E
2400' FNL 810' FWL
Section 2-T42S-R25E
San Juan County, Utah

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Existing roads will be maintained, as needed, while operations are in progress

2. PLANNED ACCESS ROAD

The access road will be as shown on the attached topographic map. The road will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. Approximately 1.25 miles of new road will be built into the location. Should the well be successful it will be maintained as ROW for a pipeline.

3. LOCATION OF EXISTING WELLS & TANK BATTERIES

There are no other producing wells or facilities in the immediate area.

4. LOCATION OF EXISTING AND PROPOSED FACILITIES

No production facilities are presently in place. Should the well prove to be productive, facilities (tank battery etc) will be sited at an elevation 4520' or higher.

5. LOCATION AND TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River or McElmo Creek and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Numbers 09-1724, (T64796) or 09-1723 (T64795).

6. SOURCE OF CONSTRUCTION

The need for additional construction materials is not anticipated. In the event that additional materials are required, they will be acquired either from private sources or with the approval

of the Navajo Nation.

7. METHODS OF HANDLING WASTE MATERIAL

Trash will be contained on location in an enclosed bin. It will be hauled to an approved disposal site or burned on location if a burning permit is granted. In place of a reserve pit we will use a steel mud pit. All drilling fluids, cuttings and chemical waste will be stored in the steel mud pits. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or airstrips are planned for this well.

9. WELL SITE LAYOUT

Attached is a surveyor's staking plat, cut and fill diagram and a schematic of the proposed rig layout.

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a generally northwest to southeast trend and will require minimal cut. Top soil removed from the pad will be stored at wellsite. The terrain will be returned to as near its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stips. There are no residents in the immediate area of the site. Since we will be using steel mud pits there will be no reserve pit to reclaim.

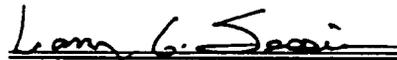
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11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY
3315 BLOOMFIELD HIGHWAY
FARMINGTON, NM 87401
LARRY G. SESSIONS

12. CERTIFICATION

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


LARRY G. SESSIONS
OPERATIONS MANAGER

10/22/93

api num: 43-037-31728

D T A I L W E L L D A T
prod zone:

sec 2
townshp 425

menu: opt 00
range 25E
qr-qr SWNW

entity:

well name: Lightning Rock 2E

operator: CHUSKA ENERGY COMPANY

field: Undesignated

meridian:

confidential flag: N confidential expires:

alt addr flag:

*** application to drill, deepen, or plug back ***

lease number: NOG 8702-1116

lease type: 2

well type: OW

surface loc: 2400 FNL 810 FNL

unit name:

prod zone loc:

depth: 5613

proposed zone: 1S-DC

elevation: 4313 KB

apd date: 3-1-92

auth code: 649-3-3

*** completion information ***

date recd:

la/pa date:

spud date:

compl date:

total depth:

producing intervals:

bottom hole:

first prod:

well status:

24hr oil:

24hr gas:

24hr water:

gas/oil ratio:

*** well comments:

api gravity:

BLM ^{APD} Approval date used.

opt: 21 api:

zone:

date(yymm):

enty

acct: