

# CHUSKA ENERGY COMPANY

315 N. BEHREND • FARMINGTON, NEW MEXICO 87401 • PHONE: (505) 326-5525

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

RECEIVED  
AUG 06 1990

3 August, 1990

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

DIVISION OF  
OIL, GAS & MINING

Ref: Application for Permit to Drill  
Beaver 111-1 Well, San Juan County, Utah

Gentlemen

Attached for your examination and approval is the original and two copies of an Application for Permit to Drill the Beaver 111 Well No. 1 in San Juan County, Utah. This well will be drilled as part of an ongoing exploration program.

The location for this well falls outside the guidelines for the State of Utah spacing requirements. However, the location has been sited so as to allow the well bore to penetrate geological structures which have been identified by seismic interpretation. We therefore apply for an exception to the General State Spacing requirements. Chuska Energy either controls the acreage surrounding the proposed site or it is open tribal land, as indicated on the attached land plat.

Please advise if you require additional information concerning this application. Chuska Energy will greatly appreciate your prompt consideration.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.111\APDCOVER

encl.

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

2. NAME OF OPERATOR  
Chuska Energy Company

3. ADDRESS OF OPERATOR  
P.O. Box 780, Farmington, New Mexico 87499

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
At Surface  
At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
8 1/2 miles South of Montezuma Creek, Utah

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST\* PROPERTY OR LEASE LINE, FT.  
(Also to nearest drilg. unit line, if any) 110

18. DISTANCE FROM PROPOSED LOCATION\* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.  
1,700' FSL, 110' FEL  
1620' FSL, 25' PWD  
Same

21. ELEVATIONS (Show whether OF, RT, GR, etc.)  
4,974' GR

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 lb	500'	371 sx 'G' + 2% CaCl <sub>2</sub>
7 7/8"	5 1/2"	15.5 lb	5,549	779 sx 'G', 65:35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

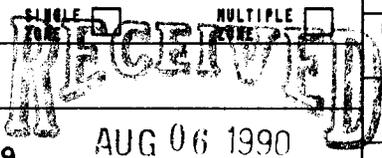
IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM : If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer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

SIGNED [Signature] TITLE Petroleum Engineer DATE 3 August, 1990

PERMIT NO. 43-037 31505 APPROVAL DATE \_\_\_\_\_

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 8/12/90

CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_



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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
Beaver 111 ML

9. WELL NO.  
1

10. FIELD AND POOL, OR WILDCAT  
Wildcat 222 Undesignated

11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA  
SN T42S R23E

12. COUNTY OR PARISH  
San Juan

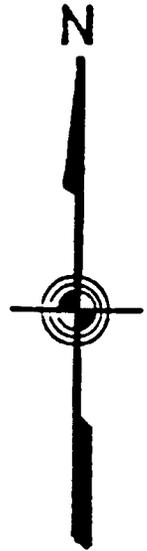
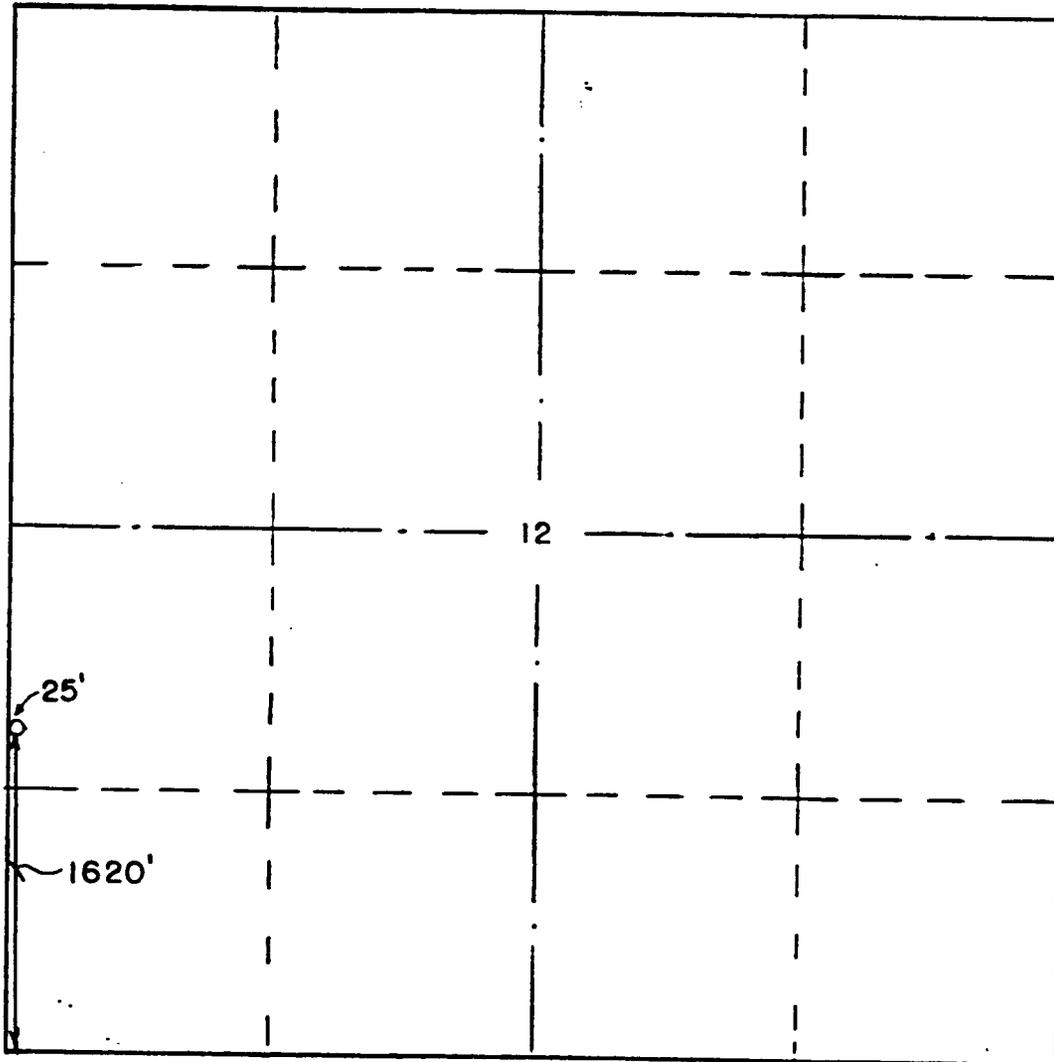
13. STATE  
Utah

\*(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 Federal agency or officer of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

SPACING: 17-02-04 40

WELL LOCATION AND ACREAGE DEDICATION PLAT



1"=1000'

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY COMPANY, Beaver 12 - L - 1

1620'FSL & 25'FWL

Section 12, T.42 S., R.23 E., SLM

San Juan, UT.

4962' ground elevation

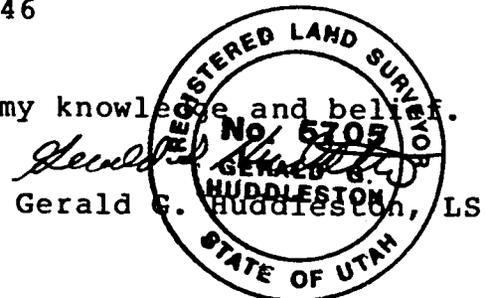
State plane coordinates from seismic control:

x = 2,626,698

y = 182,746

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

01 October 1990



STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. Unit Agreement Name

8. Farm or Lease Name

Beaver 111

Well No.

1

9. Field and Pool, or Wildcat

Wildcat

11. Qq, Sec., T., R., N., or Blk. and Survey or Area

S11 T42S R23E

12. County or Parish

San Juan

13. State

Utah

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

Multiple

2. Name of Operator

Chuska Energy Company

3. Address of Operator

P.O. Box 780, Farmington, New Mexico 87499

4. Location of Well (Report location clearly and in accordance with any state requirements.)\*

At Surface

1,700' FSL, 110' FEL

At proposed prod. zone

Same

14. Distance in miles and direction from nearest town or post office\*

8 1/2 miles South of Montezuma Creek, Utah

15. Distance from proposed location to nearest\* property or lease line, ft. (Also to nearest drlg. line, if any)

110

16. No. of acres in lease

49,999

17. No. of acres assigned to this well

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

19. Proposed depth

5,549' GR

20. Rotary or cable tools

Rotary

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

4,974' GR

22. Approx. date work will start\*

11-3-90

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 lb	500'	371 sx 'G' + 2% CaCl <sub>2</sub>
7 7/8"	5 1/2"	15.5 lb	5,549'	779 sx 'G', 65:35 Poz + 6% Gel

Refer to attached 10-Point Drilling Plan etc.

OIL AND GAS	
DFN	4 RIF
2 JF-B	GLH
1 IS	SLS
1-TAS	
2-TAS	
5-TAS	
6-	MICROFILM
7-	FILE

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.

Signed

Christopher S. Hill

Title Petroleum Engineer

Date 3 August, 1990

(This space for Federal or State office use)

API NO.

Approval Date

Approved by

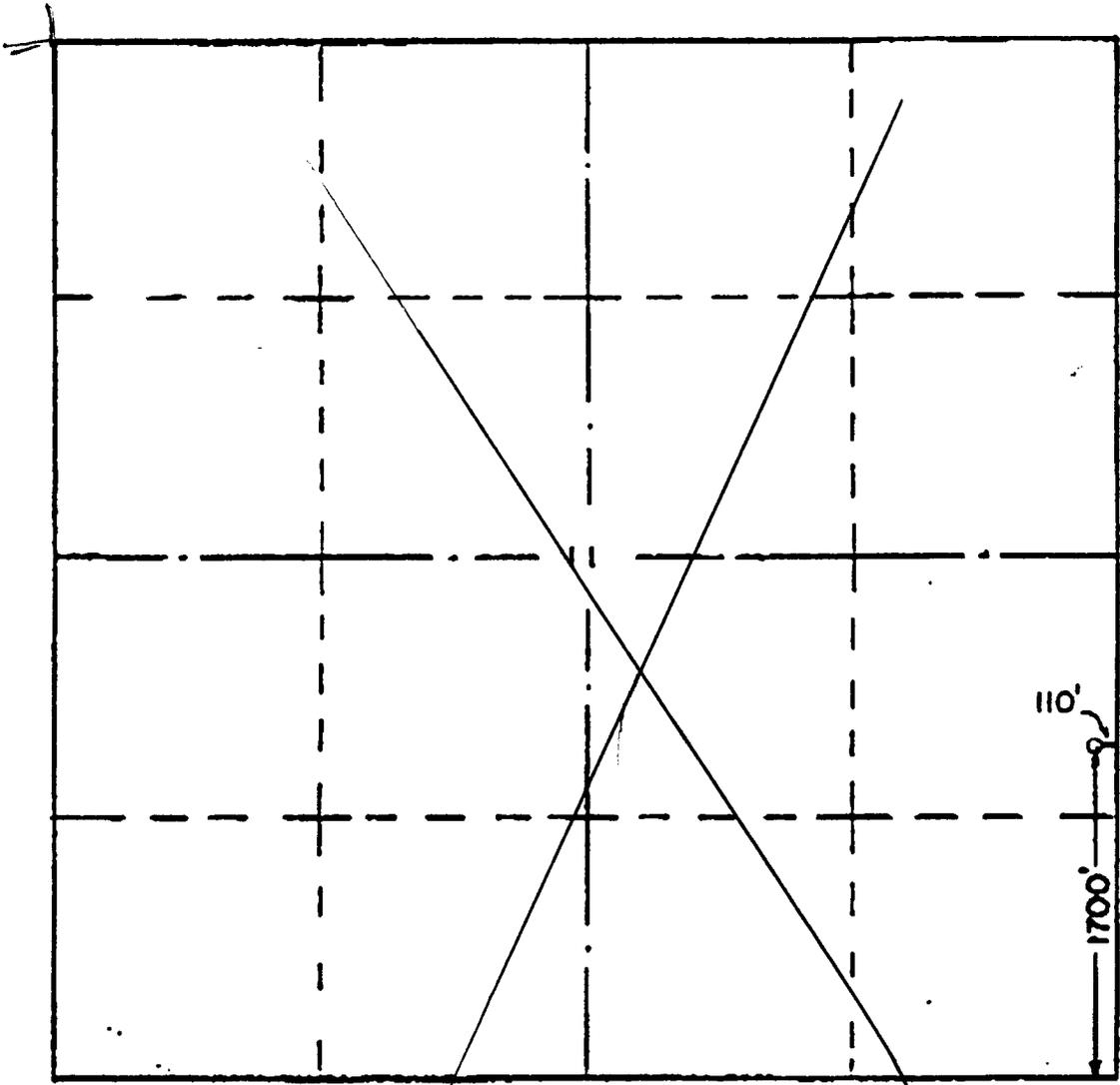
Title

Date

Conditions of approval, if any:

\*See Instructions On Reverse Side

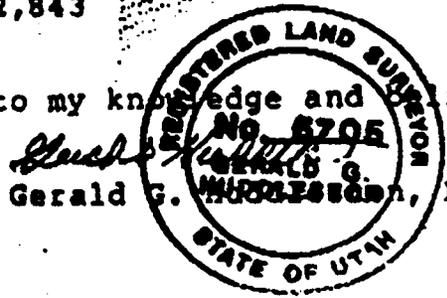
WELL LOCATION AND ACREAGE DEDICATION PLAT



WELL LOCATION DESCRIPTION:  
 CHUSKA ENERGY COMPANY, BEAVER 11 - I - 1  
 1700'FSL & 110'FEL  
 Section 11, T.42 S., R.23 E., SLM  
 San Juan, UT.  
 4974' ground elevation  
 State plane coordinates from seismic control:  
 x = 2,626,543                      y = 182,843

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

30 July 1990



TEMPORARY

FILING FOR WATER IN THE STATE OF UTAH

RECEIVED

Rec. by WP

Fee Rec. 3000

Receipt # 28801

JUL 05 1990

JUN 29 1990

APPLICATIONS TO APPROPRIATE WATER RIGHTS

Microfilmed

Roll #

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements to Title 73, Chapter 3 of the Utah Code Annotated (1953, as amended).

\*WATER RIGHT NO. 09 - 1722

\*APPLICATION NO. A T64794

1. \*PRIORITY OF RIGHT: June 29, 1990 \*FILING DATE: June 29, 1990

2. OWNER INFORMATION

Name(s): Chuska Energy Company \*Interest: 100 %

Address: P. O. Box 780

City: Farmington State: New Mexico Zip Code: 87499

Is the land owned by the applicant? Yes No x (If "No", please explain in EXPLANATORY section.)

3. QUANTITY OF WATER: cfs and/or 18 ac-ft.

4. SOURCE: San Juan River \*DRAINAGE:

which is tributary to

which is tributary to

POINT(S) OF DIVERSION: COUNTY: San Juan

At bridge crossing of highway 262 at the city of Montezuma Creek, Utah

S. 350 ft. & E. 1150 ft. from NW Cor. Sec. 5, T41S, R24E, SLB&M

Description of Diverting Works: Water truck and portable pump

\*COMMON DESCRIPTION: Montezuma Creek, Utah Montezuma Creek Quad

5. POINT(S) OF REDIVERSION

The water will be rediverted from N/A at a point:

Description of Diverting Works:

6. POINT(S) OF RETURN

The amount of water consumed will be cfs or 18 ac-ft.

The amount of water returned will be cfs or N/A ac-ft.

The water will be returned to the natural stream/source at a point(s):

7. STORAGE

Reservoir Name: N/A Storage Period: from to

Capacity: ac-ft. Inundated Area: acres.

Height of dam: feet

Legal description of inundated area by 40 acre tract(s):

\* These items are to be completed by the Division of Water Rights

TEMPORARY

Appropriate

8. List any other water rights which will supplement this application \_\_\_\_\_

9. NATURE AND PERIOD OF USE

TEMPORARY

Irrigation:	From _____	to _____
Stockwatering:	From _____	to _____
Domestic:	From _____	to _____
Municipal:	From _____	to _____
Mining:	From _____	to _____
Power:	From _____	to _____
Other: Oil & Gas Exploration	From <u>8/1990</u>	to <u>11/1990</u>

10. PURPOSE AND EXTENT OF USE

Irrigation: \_\_\_\_\_ acres. Sole supply of \_\_\_\_\_ acres.  
 Stockwatering (number and kind): \_\_\_\_\_  
 Domestic: \_\_\_\_\_ Families and/or \_\_\_\_\_ Persons.  
 Municipal (name): \_\_\_\_\_  
 Mining: \_\_\_\_\_ Mining District in the \_\_\_\_\_ Mine.  
 Ores mined: \_\_\_\_\_  
 Power: Plant name: \_\_\_\_\_ Type: \_\_\_\_\_ Capacity: \_\_\_\_\_  
 Other (describe): Drilling and completion of San Juan County Oil and Gas wells

11. PLACE OF USE

Legal description of place of use by 40 acre tract(s): At drilling sites which are now approved and at sites to be applied for in the future.  
NW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 5, T41S, R24E, SLB&M

12. EXPLANATORY

The following is set forth to define more clearly the full purpose of this application. (Use additional pages of the same size if necessary): The point of diversion is on Navajo Tribal lands. Chuska Energy Company, as operator for the Navajo Nation, requires water for drilling and completion operations on Navajo Tribal lands. This application is for a temporary permit to drill and complete six wells.

\*\*\*\*\*

The applicant(s) hereby acknowledges that he/she/they are a citizen(s) of the United States of America or intends to become such a citizen(s). The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purposes herein described. The undersigned hereby acknowledges that even though he/she/they may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the Division of Water Rights, all responsibility for the accuracy of the information contained herein, at the time of filing, rests with the applicant(s).

*H. Merle Myers*  
 Signature of Applicant(s)\*

\*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its authorized agent, or in the name of the partnership by one of the partners.

\_\_\_\_\_  
 Authorized Agent (please print)

\_\_\_\_\_  
 Authorized Agent (signature)

TEMPORARY

STATE ENGINEER'S ENDORSEMENT

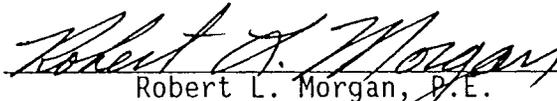
WATER RIGHT NUMBER: 09 - 1722

APPLICATION NO. T64794

1. June 29, 1990            Application received by MP.
  2. July 2, 1990            Application designated for APPROVAL by MP and KLJ.
  3. Comments:
- 
- 

Conditions:

This application is hereby APPROVED, dated July 13, 1990, subject to prior rights and this application will expire on July 13, 1991.

  
Robert L. Morgan, P.E.  
State Engineer

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Beaver 12L Well No. 1  
Section 12, Township 42S, Range 23E  
1620' FSL, 25' FWL  
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,962' GR.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>
Surface	Morrison	+ 4,962'
<del>582'</del>	<del>Navajo</del>	<del>+ 4,380'</del>
2,487'	DeChelly	+ 2,475'
3,502'	Cedar Mesa	+ 1,460'
4,372'	Hermosa	+ 590'
5,102'	Upper Ismay	- 140'
5,212'	Lower Ismay	- 250'
5,282'	Desert Creek	- 320'
5,462'	Akah	- 500'
5,537'	Total Depth	- 575'

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	5,537'	5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft<sup>3</sup>) Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Slurry volume calculated at 100% excess over annular volume.

## Production Cementing:

### First Stage

T.D. to 3,500' (stage collar @  $\pm$  3,500'). Lead with 134 sx Class 'G' cement, 65:35 Pozmix, with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 188 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 464 ft<sup>3</sup>. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole.

### Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 100 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 772 ft<sup>3</sup>. Cement volumes calculated at 30% excess in open hole.

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 2,000 psi BOP system would be sufficient for the drilling of this well. However, due to availability constraints, a 3,000 psi system will be used, as per the 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 5,000'

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

### 5,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.5 ppg. Gel/lime sweeps as hole conditions dictate for hole cleaning. Fluid loss to be maintained at 15 - 20 cc. Fluid loss to be further reduced to 15 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 the 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 T.D. to 4,500'.

Coring and/or drill stem testing will be as per the wellsite geologist's recommendations, based on shows. A mud logging unit will be utilized during drilling operations from at least 500' above the Upper Ismay.

9. ABNORMAL PRESSURES/GAS

~~Abnormal pressures are not anticipated.~~ Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H<sub>2</sub>S 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 to be 15 days. Anticipated spud date is 8-1-91.

## DETAILED DRILLING PROGRAM

DATE: 1 October, 1990

WELL NAME: Beaver 12L WELL NO.: 1

LOCATION: Section 12, Township 42S, Range 23E  
1620' FSL, 25' FWL  
San Juan County, Utah

ELEVATION: 4,962' GR

TOTAL DEPTH: 5,537' GR

PROJECTED HORIZON: Primary target is Desert Creek at 5,282'.

### 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  $\pm$  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", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft<sup>3</sup>) of Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface).
5. W.O.C. 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 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
8. Run open hole logs and evaluate. Coring and/or drill stem 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 T.D. Set stage cementing collar at  $\pm$  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 in two stages as 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.

Beaver 12L Well No. 1  
Section 12, Township 42S, Range 23E  
1620' FSL, 25' FWL  
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 Navajo Tribal requirements.

Beaver 12L Well No. 1  
Section 12, Township 42S, Range 23E  
1620' FSL, 25' FWL  
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Montezuma Creek. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that approximately  $\frac{1}{2}$  mile of new road will need to be constructed to the location pad, the majority of it along an existing seismic line.

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 on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Number 09-1722, (T64794).

6. SOURCE OF CONSTRUCTION MATERIALS

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. The reserve pit will be lined, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

Chemical portable toilet facilities will be provided on location during drilling and completion operations. No camps or air strips 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 north/south trend and will require up to 15' of cut in the north western corner of the location pad and up to 19' of fill in the south eastern corner of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11. OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY  
3315 BLOOMFIELD HIGHWAY  
FARMINGTON, NEW MEXICO 87402  
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.

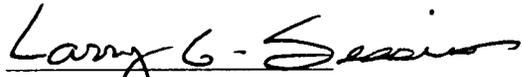
  
LARRY G. SESSIONS  
Operations Manager

EXHIBIT "A"  
BLOWOUT PREVENTER

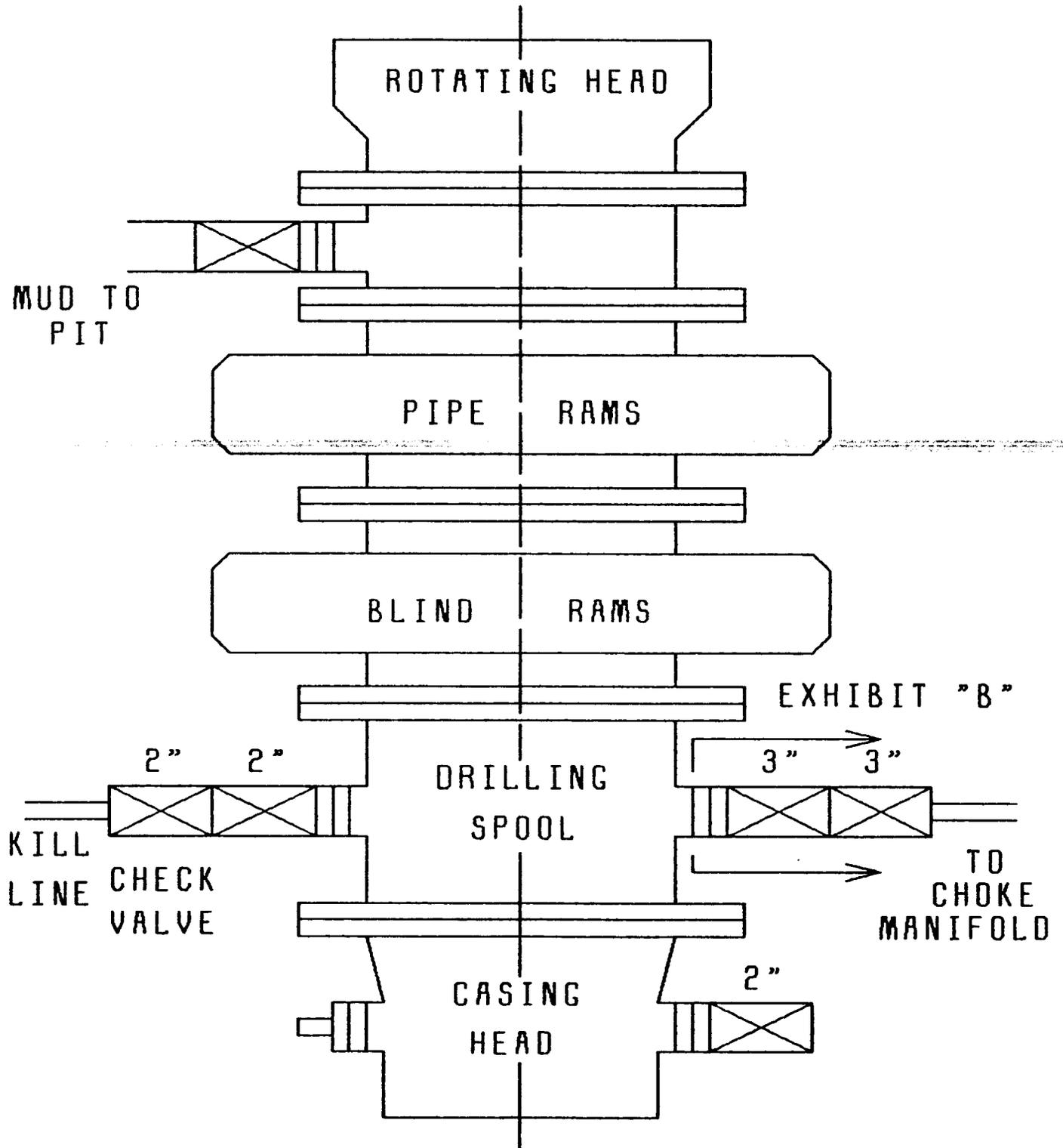
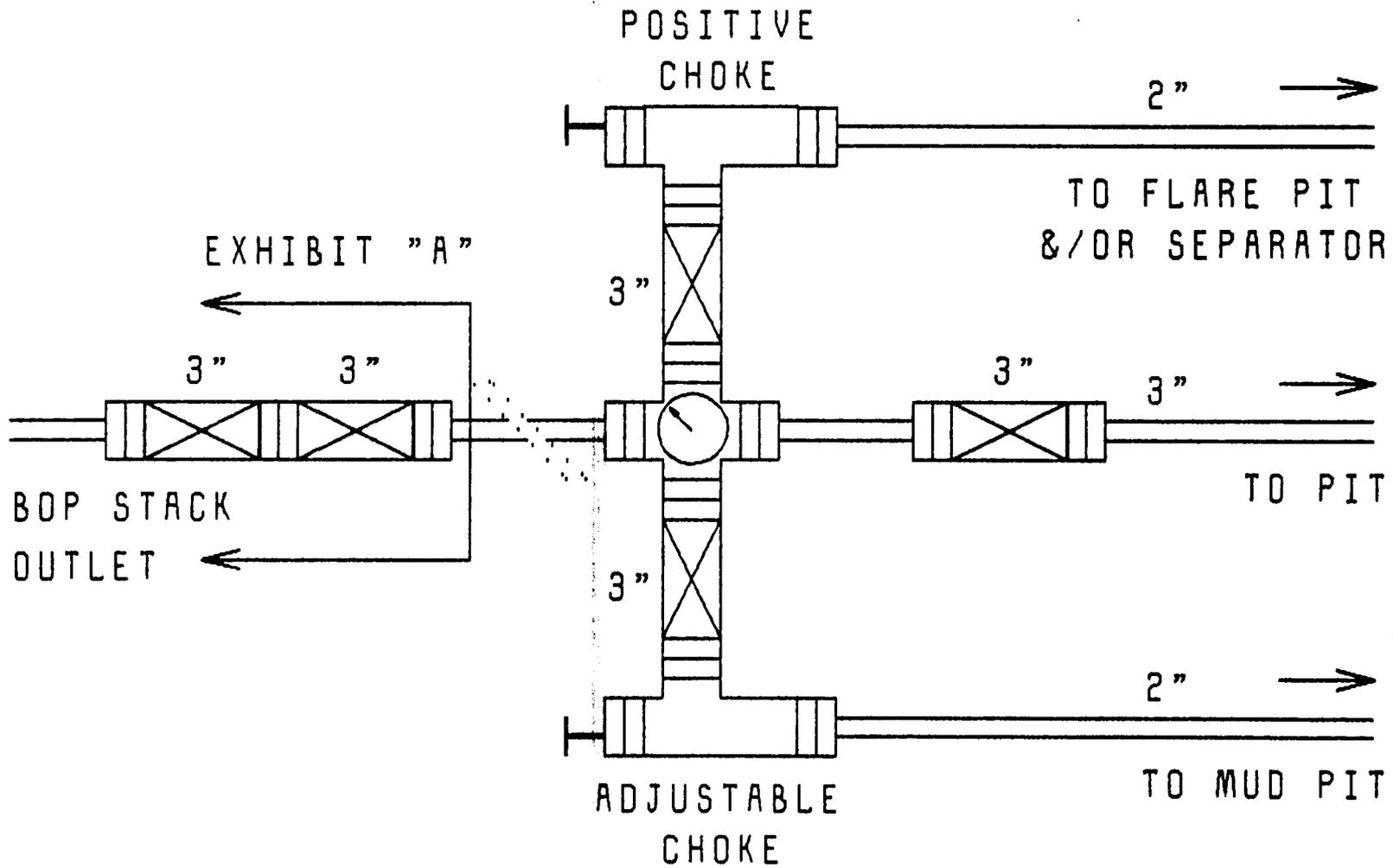
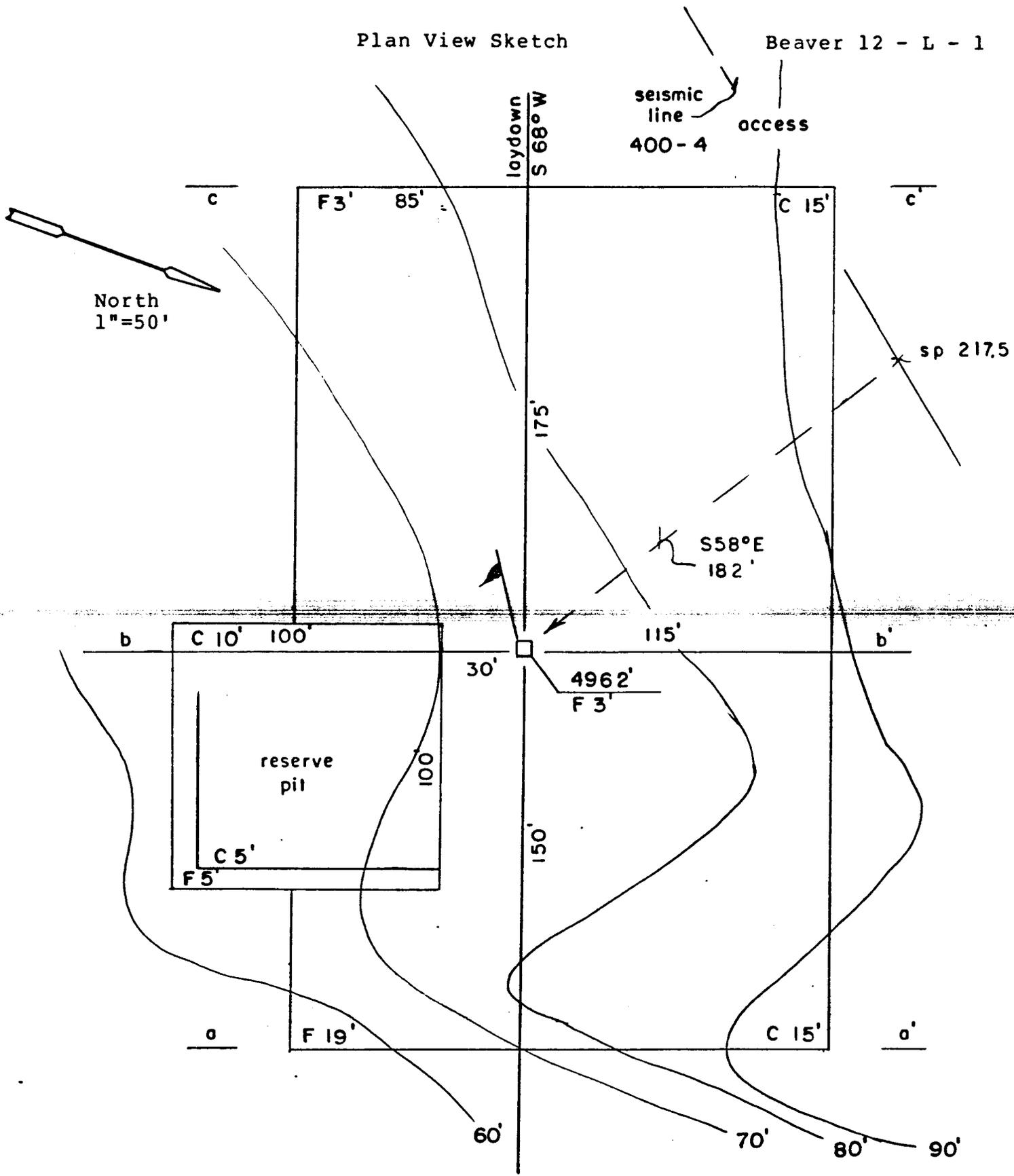


EXHIBIT "B"  
CHOKE MANIFOLD



Plan View Sketch

Beaver 12 - L - 1

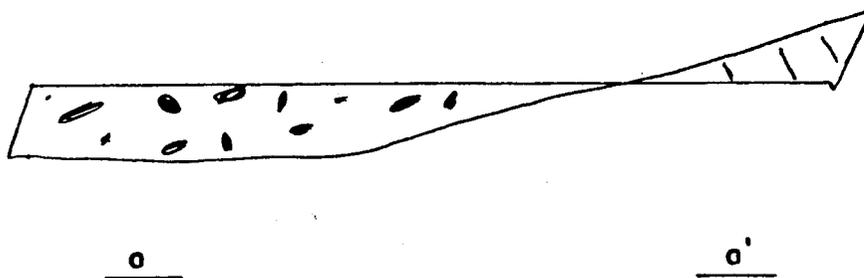
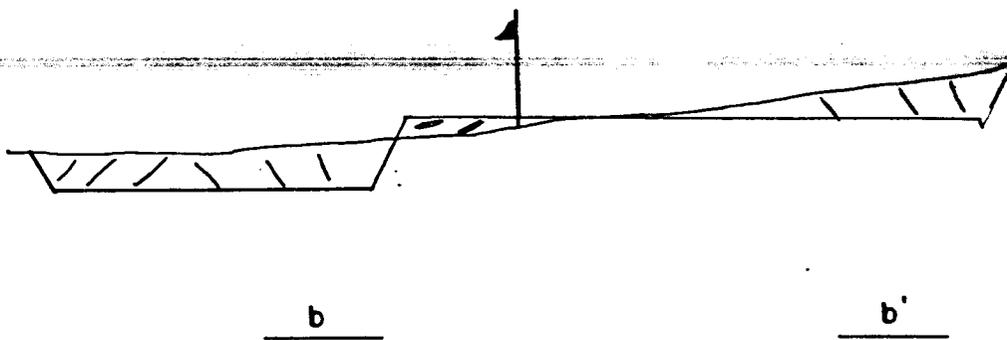
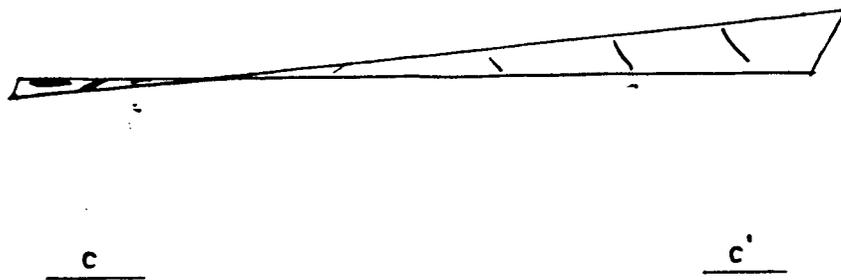


Cut   
Fill 

Cross Section

Beaver 12 - L - 1

1"=50' Horz. & Vert.





CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Beaver 111 Well No. 1  
Section 11, Township 42S, Range 23E  
1,700' FSL, 110' FEL  
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,974' GR.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>	
Surface	Morrison	+ 4,974'	
594'	Navajo	+ 4,380'	
2,499'	DeChelly	+ 2,475'	
3,514'	Cedar Mesa	+ 1,460'	
4,384'	Hermosa	+ 590'	
5,114'	Upper Ismay	- 140'	
5,224'	Lower Ismay	- 250'	
5,294'	Desert Creek	- 320'	Primary Objective
5,474'	Akah	- 500'	
5,549'	Total Depth	- 575'	

4. PROPOSED CASING/CEMENTING PROGRAM

	<u>Depth</u>	<u>Size</u>	<u>Weight</u>	<u>Grade</u>	<u>Coupling</u>
Surface	500'	8 5/8"	24 lb	K-55	STC
Production:	5,549'	5 1/2"	15.5 lb	K-55	STC

Surface Cementing:

371 sx (427 ft<sup>3</sup>) Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Slurry volume calculated at 100% excess over annular volume.

ing:

stage collar @ + 3,500'). Lead with 136 sx  
, 65:35 Pozmix, with 6% gel and 1/4 lb/sk  
nt = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with  
cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg,  
sk. Total of 467 ft<sup>3</sup>. Bring Class 'G' slurry  
of Upper Ismay. Cement volumes calculated at  
en hole.

e. Lead with 355 sx Class 'G' cement, 65:35  
gel and 1/4 lb/sk Celloflake. Weight =  
= 1.85 ft/sk. Tail with 100 sx Class 'G'  
aCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk.  
Cement volumes calculated at 30% excess in

slurry volumes for the production string will  
usted according to the caliper log which will  
prior to cementing. Special adjustments may  
essary if significant amounts of salt are  
d.

R (See attached schematics)

ssure is not anticipated, a 2,000 psi BOP  
sufficient for the drilling of this well.  
availability constraints, a 3,000 psi system  
per the attached Exhibits "A" and "B". This  
00 Series double ram preventer, equipped with  
d blind rams.

ystem, with a pressure capacity sufficient to  
three complete cycles without rig power, will  
part of the rig equipment.

#### GRAM

1, lime and native solids. Weight 8.3 -  
e sweeps as necessary for hole cleaning.

dispersed polymer system. Weight 8.6 - 9.5  
sweeps as hole conditions dictate for hole  
loss to be maintained at 15 - 20 cc. Fluid  
er reduced to 15 cc or less prior to coring,

ed during drilling  
on the rig floor.

available, on the rig  
ubs to fit all of the

to abnormal formation

consist of a minimum  
GR-Lithodensity from

wellsite geologist's  
logging unit will be  
at least 500' above

onitoring of gas and  
d logging unit. H<sub>2</sub>S  
checks will be made

s estimated to be 15

## DETAILED DRILLING PROGRAM

DATE: 3 August, 1990

WELL NAME: Beaver 111 WELL NO.: 1

LOCATION: Section 11, Township 42S, Range 23E  
1,700' FSL, 110' FEL  
San Juan County, Utah

ELEVATION: 4,974' GR

TOTAL DEPTH: 5,549' GR

PROJECTED HORIZON: Primary target is Desert Creek at 5,294'.

### 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  $\pm$  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", 24 lb/ft, K-55, STC casing to T.D. Cement with 371 sx (427 ft<sup>3</sup>) of Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake (sufficient slurry volume to circulate cement to surface)
5. W.O.C. 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 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to T.D. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5° at T.D., with the maximum allowable rate of change to be 1°/100'.
8. Run open hole logs and evaluate. Drill stem testing will be as per the 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 T.D. Set stage cementing collar at  $\pm$  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 in two stages as 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.

Beaver 111 Well No. 1  
Section 11, Township 42S, Range 23E  
1,700' FSL, 110' FEL  
San Juan County, Utah

SURFACE USE PLAN

1. EXISTING ROADS

Shown on the attached topographic map are the existing roads in the immediate area. Outlined is the route to be followed from Montezuma Creek. Existing roads will be maintained, as necessary, while operations are in progress.

2. PLANNED ACCESS ROAD (SHOWN IN RED)

The access road will be as shown on the attached topographic map. The road will be flat bladed, constructed 14' in width and will be maintained as necessary to prevent excessive damage to the existing terrain. The road will be upgraded if commercial production is established. It is anticipated that approximately  $\frac{1}{2}$  mile of new road will be required to be constructed to the location pad.

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 on the drilling location pad.

5. LOCATION & TYPE OF WATER SUPPLY

Water will be acquired from the San Juan River and will be hauled using Chuska Energy Company water trucks, under State of Utah Division of Water Rights Permit Number 09-1722, (T64794).

6. SOURCE OF CONSTRUCTION MATERIALS

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. The reserve pit will be lined, with an approved 7 mil liner, for containing drilling fluids. The pit will also be fenced. All drilling fluids, cuttings and chemical waste will be stored in the reserve pit. Liquid hydrocarbons will be stored in temporary storage tanks and hauled from location to approved sales facilities. The reserve pit will be emptied, back filled and restored to natural terrain status upon completion of drilling operations.

8. ANCILLARY FACILITIES

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

9. WELL SITE LAYOUT

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

10. PLANS FOR RESTORATION OF THE SURFACE

The location is laid out on a south west/north east trend and will require up to 15' of cut in the reserve pit (up to 11' of cut on the north western side of the location pad) and up to 11' of fill on the south eastern side of the location pad. Top soil removed from the pad will be stored at the well site. A reserve pit will be built on terrain containing sparse native vegetation. After drilling operations are complete, drilling fluid in the reserve pit will be allowed to evaporate. All remaining fluid in the pit will be disposed of into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and the topsoil will be returned to the disturbed area. The terrain will be returned as near to its original condition as possible. Following operations, rehabilitation seeding will be in accordance with APD/BLM/BIA stipulations. There are no residents in the immediate area of the site.

11.

OPERATORS REPRESENTATIVE

CHUSKA ENERGY COMPANY  
315 NORTH BEHREND AVENUE  
FARMINGTON, NEW MEXICO 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.

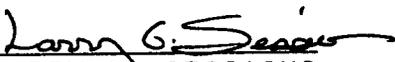
  
LARRY G. SESSIONS  
Operations Manager

EXHIBIT "A"  
BLOWOUT PREVENTER

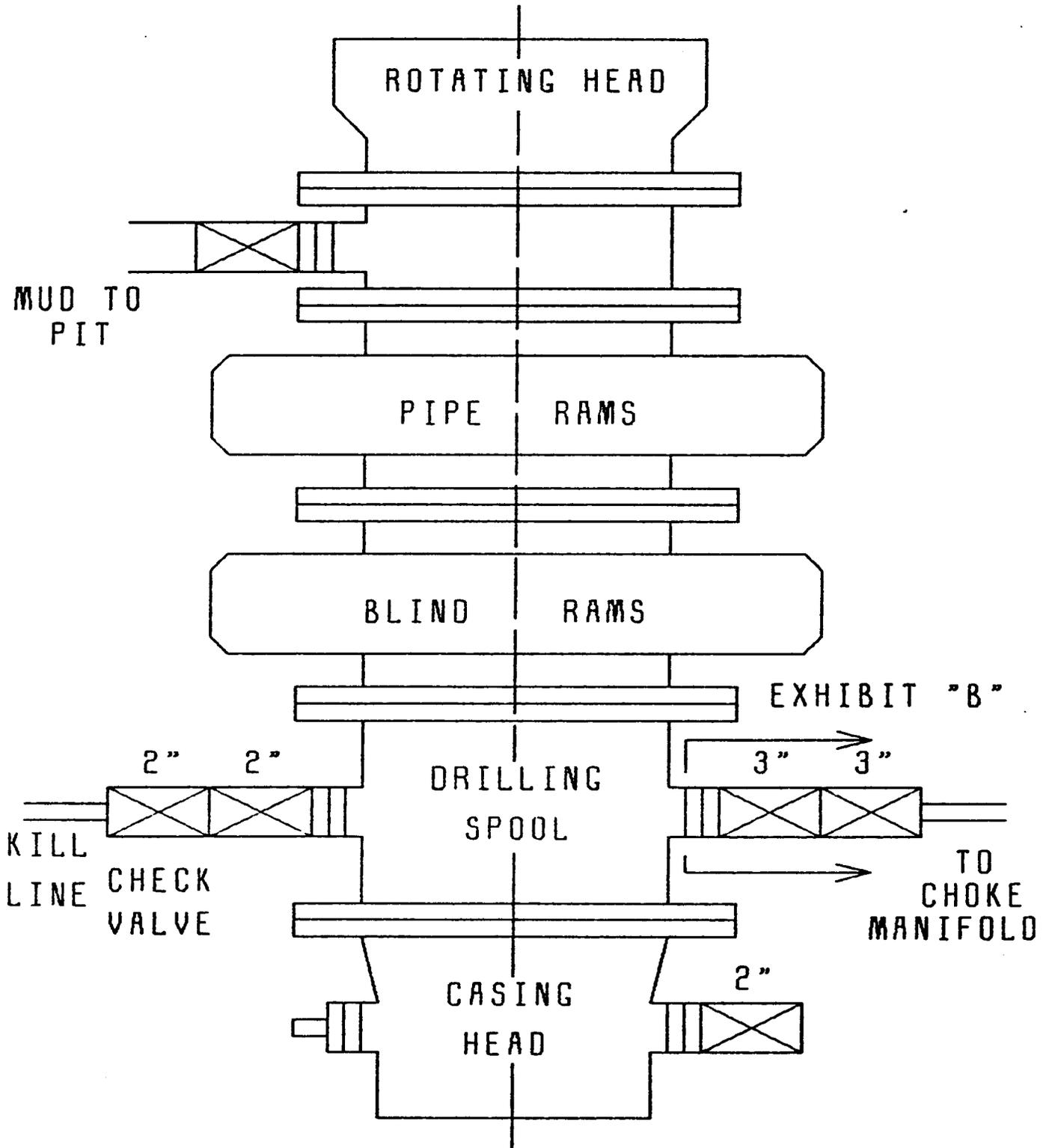
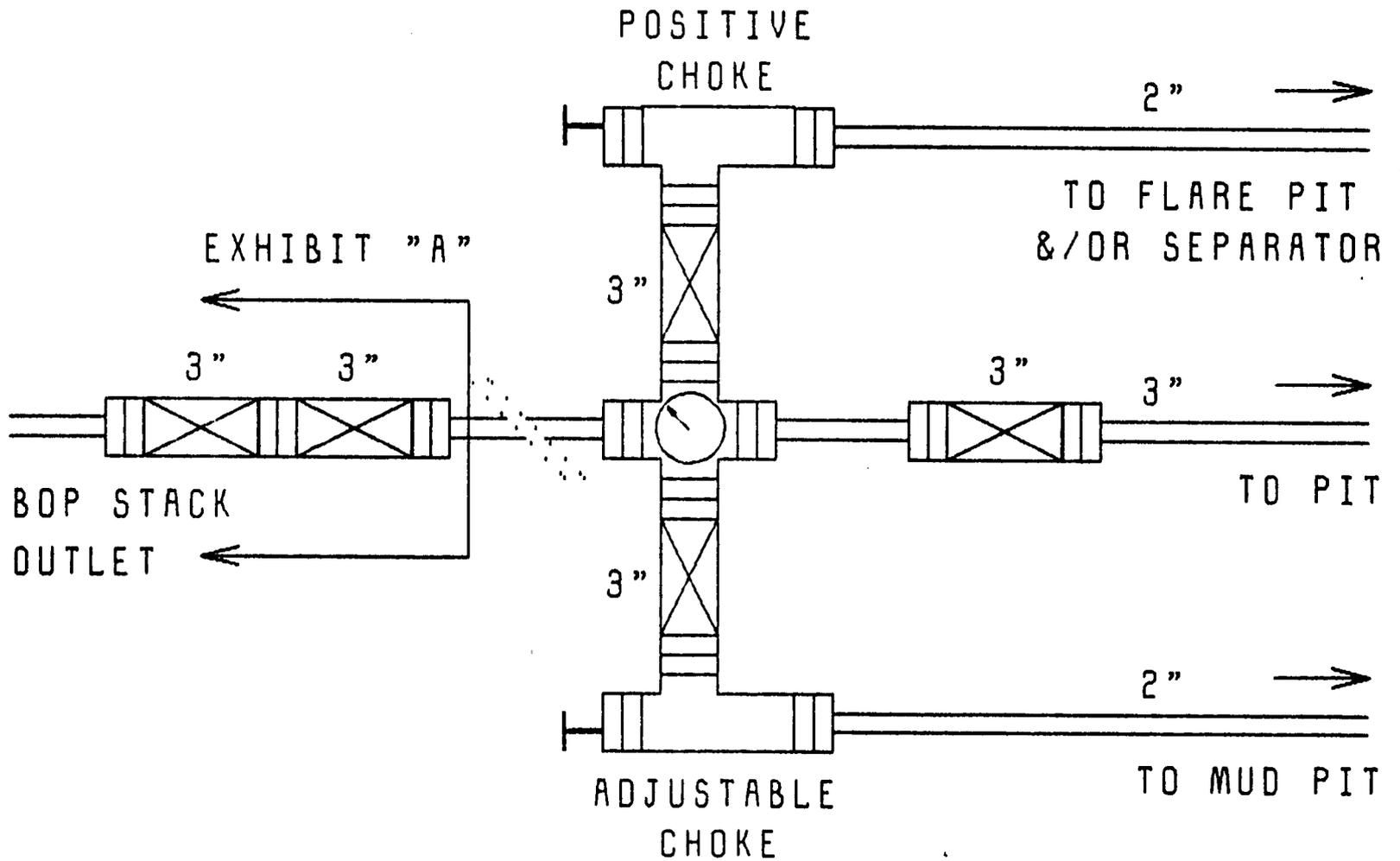


EXHIBIT "B"  
CHOKE MANIFOLD

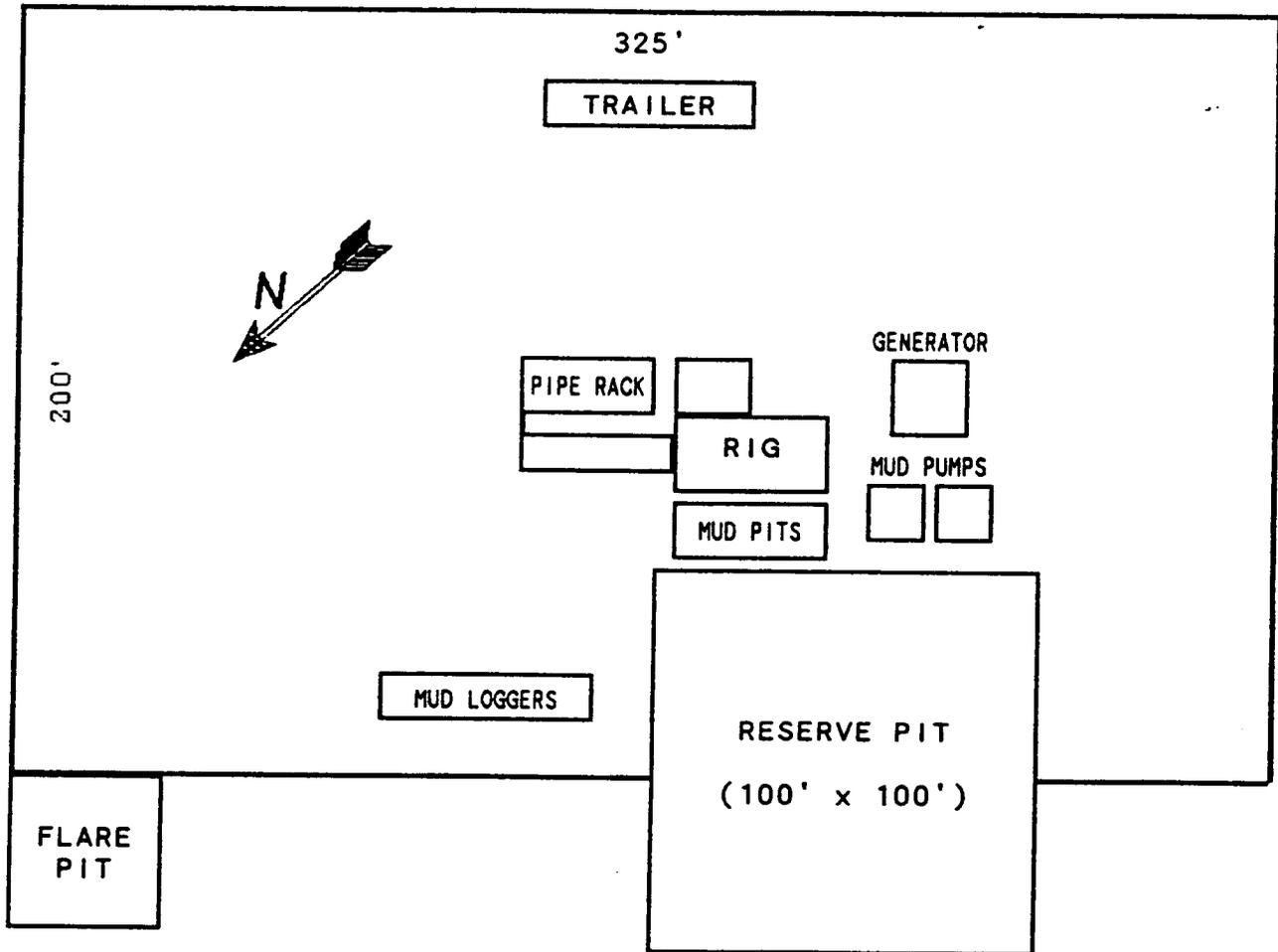


# BEAVER 111-1

1,700' FSL, 110' FEL

SECTION 11, TOWNSHIP 42S, RANGE 23E

San Juan COUNTY, Utah



6	5	4	3	2	1
7	8	9	10	11	12
			BEAVER 111-1		
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

**CHUSKA ENERGY COMPANY**

ACREAGE POSITION UNDER THE 1987 OPERATING AGREEMENT



CHUSKA: T42S-R23E, SAN JUAN COUNTY, UTAH



Cross Section

BEAVER 11 - I - 1

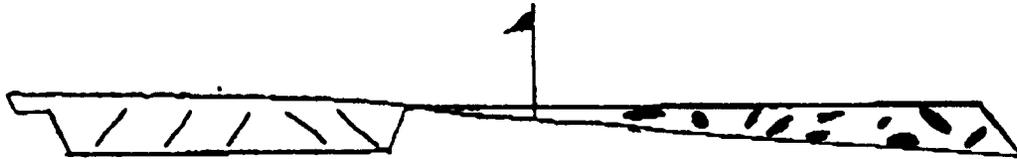
Cut   
Fill 

1"=50' Horz. & Vert.



c

c'



b

b'



a

a'





# CHUSKA ENERGY COMPANY

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

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

1 October, 1990

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

OCT 04 1990

RECEIVED  
DIVISION OF OIL, GAS AND MINING

Ref: Sundry Notice: Beaver 12L-1 Well

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

*Larry G. Sessions*  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.12L\MOVESUN.CVR

encl.

Form 3160-5  
(November 1983)  
(formerly 9-331)

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 8702-1116  
6. FEDERAL INDIAN, ALLOTTEE OR TRIBE NAME  
Navajo Tribal  
7. UNIT AGREEMENT NAME  
8. FARM OR LEASE NAME  
Beaver 12L  
9. WELL NO.  
1  
10. FIELD AND POOL, OR WILDCAT  
Wildcat  
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
S12 T42S R23E  
12. COUNTY OR PARISH  
San Juan  
13. STATE  
Utah

OCT 04 1990

1. OIL WELL  GAS WELL  OTHER  
2. NAME OF OPERATOR  
Chuska Energy Company  
3. ADDRESS OF OPERATOR  
P.O. Box 780, Farmington, New Mexico 87499  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)  
At surface 1620' FSL, 25' FWL  
14. PERMIT NO.  
15. ELEVATIONS (Show whether DF, RT, GR etc.)  
4,962' GR

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

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

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

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

In order to comply with State of Utah spacing requirements under special Board Order, the location of the well has been moved. The well name has also been changed. Details are as follows:

Old Name: Beaver 111-1      New Name: Beaver 12L-1  
Old Location: 1700' FSL/110' FEL      New Location: 1620' FSL/25' FWL

Revised staking plat is attached. Refer also to revised 10-Point Drilling Plan etc.

18. I hereby certify that the foregoing is true and correct.  
SIGNED [Signature] TITLE Petroleum Engineer DATE 1 October, 1990

(This space for Federal or State office use)  
APPROVED BY 43-037-315125 TITLE \_\_\_\_\_ APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING  
DATE: 10/12/90

\*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to send by mail, or to cause to be sent by mail, any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

OPERATOR Chuska Energy Company 19090 DATE 10-9-90

WELL NAME Becker 101 #1

SEC NW 1/4 T 40S R 23E COUNTY San Juan

43 037-31565  
API NUMBER

Indian  
TYPE OF LEASE

CHECK OFF:

PLAT.

BOND

NEAREST WELL

LEASE

FIELD SLBM

POTASH OR OIL SHALE

PROCESSING COMMENTS:

State Permit 09-1726 (T4794)  
Exemption Location  
see survey showing location for Board Order

APPROVAL LETTER:

SPACING:

R615-2-3

N/A  
UNIT

R615-3-2

17 10-24-10  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

CC: BIA

CONFIDENTIAL  
PERIOD  
EXPIRED  
ON 8-8-98



# Stat. of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

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

355 West North Temple  
3 Triad Center, Suite 350  
Salt Lake City, Utah 84180-1203  
801-538-5340

October 12, 1990

Chuska Energy Company  
P. O. Box 780  
Farmington, New Mexico 87499

Gentlemen:

Re: Beaver 12L #1 - NW SW Sec. 12, T. 42S, R. 23E - San Juan County, Utah  
1620' FSL, 25' FWL

Approval to drill the referenced well is hereby granted in accordance with the Order of Cause No. 17 dated February 24, 1960.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify R. J. Firth, Associate Director, (Office) (801) 538-5340, (Home) 571-6068, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.

Page 2  
Chuska Energy Company  
Beaver 12L #1  
October 12, 1990

6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.
7. 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 43-037-31565.

Sincerely,



R. J. Firth  
Associate Director, Oil & Gas

tas  
Enclosures  
cc: Bureau of Land Management  
Bureau of Indian Affairs  
J. L. Thompson  
we14/1-12

WATER PERMIT OK

DIVISION OF OIL, GAS AND MINING

API NO. 43-037-31565 <sup>dlk</sup>

SPUDDING INFORMATION

NAME OF COMPANY: CHUSKA ENERGY

WELL NAME: BEAVER 12L-1

SECTION NWSW 12 TOWNSHIP 42S RANGE 23E COUNTY SAN JUAN

DRILLING CONTRACTOR AZTEC

RIG # 184

SPUDDED: DATE 2-26-91

TIME 6:00 a.m.

HOW ROTARY

DRILLING WILL COMMENCE \_\_\_\_\_

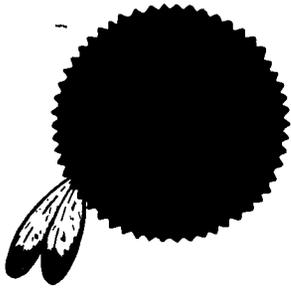
REPORTED BY CHRIS HILL

TELEPHONE # 505-326-5525

DATE 2-25-91

SIGNED TAS





# CHUSKA ENERGY COMPANY

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

27 February, 1991

RECEIVED  
MAR 04 1991

DIVISION OF  
OIL, GAS & MINING

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

Ref: Sundry Notice: Beaver 12L-1 Well  
Spud/Set Surface Casing

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.12L\SPUDSUN.CVR

encl.

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name  Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Beaver 12L 1
10. API Well Number <i>ch</i> 43-037-31565
11. Field and Pool, or Wildcat Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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

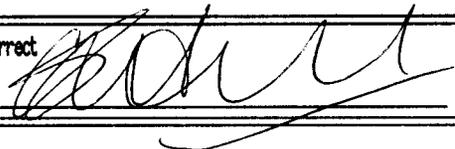
1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)	
2. Name of Operator Chuska Energy Company	
3. Address of Operator 3315 Bloomfield Highway, Farmington, New Mexico 87401	4. Telephone Number (505) 326 5525
5. Location of Well Footage : 1620' FSL, 25' FWL      County : San Juan QQ, Sec. T., R., M.: NW/4 SW/4 S12 T42S R23E      State : UTAH	

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p style="text-align: center;">NOTICE OF INTENT (Submit in Duplicate)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Shoot or Acidize</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Multiple Completion</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input type="checkbox"/> Other _____</td> <td></td> </tr> </table> <p>Approximate Date Work Will Start _____</p>	<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"/> 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 _____		<p style="text-align: center;">SUBSEQUENT REPORT (Submit Original Form Only)</p> <table style="width: 100%;"> <tr> <td><input type="checkbox"/> Abandonment *</td> <td><input type="checkbox"/> New Construction</td> </tr> <tr> <td><input type="checkbox"/> Casing Repair</td> <td><input type="checkbox"/> Pull or Alter Casing</td> </tr> <tr> <td><input type="checkbox"/> Change of Plans</td> <td><input type="checkbox"/> Recompletion</td> </tr> <tr> <td><input type="checkbox"/> Conversion to Injection</td> <td><input type="checkbox"/> Vent or Flare</td> </tr> <tr> <td><input type="checkbox"/> Fracture Treat</td> <td><input type="checkbox"/> Water Shut-Off</td> </tr> <tr> <td><input checked="" type="checkbox"/> Other <u>Spud/Surface Casing</u></td> <td></td> </tr> </table> <p>Date of Work Completion <u>2-26-91</u></p> <p><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></p>	<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"/> Recompletion	<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off	<input checked="" type="checkbox"/> Other <u>Spud/Surface Casing</u>	
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<input type="checkbox"/> Conversion to Injection	<input type="checkbox"/> Vent or Flare																										
<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off																										
<input checked="" type="checkbox"/> Other <u>Spud/Surface Casing</u>																											

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.)

MIRU Aztec Well Service Rig 184. Spudded 12 1/4" hole 2045 hrs, 2-25-91 (notification of spud to State of Utah - Frank Matthews - at 1449 hrs, 2-25-91). Drilled to 515'. RU and ran 12 joints 8 5/8", 24 lb/ft, K-55, STC casing with guide shoe and float collar. Landed at 510'. Cemented with 375 sx Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 lb/sk Celloflake. Displaced with water. Circulated approximately 25 bbl slurry to pit.

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

Name & Signature Christopher S.W. Hill  Title Operations Engineer Date 27 Feb 91

(State Use Only)

Division of Oil, Gas and Mining  
PHONE CONVERSATION DOCUMENTATION FORM

42/21 #12

Route original/copy to:

Well File Dearen 12-L #1

Suspend  
(Return Date) \_\_\_\_\_  
(To - Initials) \_\_\_\_\_

Other  
\_\_\_\_\_  
\_\_\_\_\_

(Location) Sec \_\_\_\_\_ Twp \_\_\_\_\_ Rng \_\_\_\_\_  
(API No.) 43-037-31565 *dl*

1. Date of Phone Call: 3-15-91 Time: 4:00

2. DOGM Employee (name) Frank Mathew (Initiated Call )  
Talked to:

Name Chris Hill (Initiated Call ) - Phone No. ( )  
of (Company/Organization) Chuska

3. Topic of Conversation: Gave verbal permission to suspend operation by leaving 9.3ppg mud in hole + a bridge plug in surface casing.

4. Highlights of Conversation: suspend operation for 30 to 45 days while evaluating VPS (velocity profile survey taken in well)



# CHUSKA ENERGY COMPANY

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

15 March, 1991

RECEIVED

MAR 18 1991

DIVISION OF  
OIL GAS & MINING

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

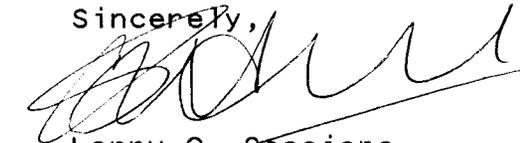
Ref: Sundry Notice: Beaver 12L-1 Well  
Suspend Operations and Temporarily Abandon Well

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.12L\1RBPSUN.CVR

encl.

ST. E OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Beaver 12L 1
10. API Well Number 43-037-31565
11. Field and Pool, or Wildcat Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)
2. Name of Operator Chuska Energy Company
3. Address of Operator 3315 Bloomfield Highway, Farmington, New Mexico 87401
4. Telephone Number (505) 326 5525
5. Location of Well Footage : 1620' FSL, 25' FWL QQ, Sec. T., R., M.: NW/4 SW/4 S12 T42S R23E County: San Juan State: UTAH

<b>12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>																											
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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.)

Following drilling, logging and running of an offset VSP on this well, it has been decided that further evaluation of the data is necessary before a final decision can be made as to whether the well will be cased, sidetracked or plugged and abandoned.

Chuska Energy therefore proposes to suspend operations and abandon the well on a temporary basis in order to release the drilling rig for other operations. Prior to releasing the rig, the hole will be cleaned out to TD, mud (9.3 ppg) circulated and conditioned to approximate 60 sec/qt viscosity and fluid loss less than 10cc. The temporary abandonment will then be accomplished by setting a retrievable bridge plug at + 400' (inside surface casing), pressure testing same, placing a temporary cap on the well head, rigging down and moving off location.

It is anticipated that a decision regarding the final disposition of the well will be made within 30-45 days and a drilling rig will be brought back onto location, within that time, to either sidetrack, complete or permanently abandon the well. Verbal approval of operations from State of Utah (Frank Matthews) at 1604 hrs, 3-15-91.

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

Name & Signature Christopher S.W. Hill Title Operations Engineer Date 15 Mar 91

(State Use Only)

**RECEIVED**  
MAR 18 1991

3-25-91  
FRANK MATTHEWS

DIVISION OF OIL GAS & MINING

(8/90) See Instructions on Reverse Side



# CHUSKA ENERGY COMPANY

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

18 March, 1991

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

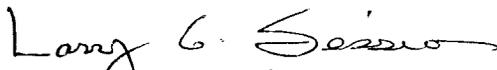
Ref: Sundry Notice: Beaver 12L-1 Well  
Suspension of Operations/Temporary Abandonment

Gentlemen

Attached for your examination and approval is the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.12L\2RBPSUN.CVR

encl.

**RECEIVED**

MAR 22 1991

DIVISION OF  
OIL GAS & MINING

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

6. Lease Designation and Serial Number NOG 8702-1116
7. Indian Allottee or Tribe Name Navajo Tribal
8. Unit or Communitization Agreement
9. Well Name and Number Beaver 12L 1
10. API Well Number 43-037-31565 <i>TA writing work</i>
11. Field and Pool, or Wildcat Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well <input type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other (specify)
2. Name of Operator Chuska Energy Company
3. Address of Operator 3315 Bloomfield Highway, Farmington, New Mexico 87401
4. Telephone Number (505) 326 5525
5. Location of Well Footage : 1620' FSL, 25' FWL County : San Juan QQ, Sec, T., R., M.: NW/4 SW/4 S12 T42S R23E State : UTAH

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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.)

Completed logging and VSP work. RIH and conditioned mud for temporary abandonment (weight = 9.3 ppg, vis = 61 sec/qt, fluid loss = 9.8 cc). POOH. RIH 8 5/8" retrievable bridge plug and set in surface casing at 400'. Pressure tested to 1,000 psig OK. Suspended operations. Released rig 1500 hrs, 3-16-91.

**RECEIVED**

MAR 22 1991

DIVISION OF  
OIL GAS & MINING

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

Name & Signature Christopher S.W. Hill *[Signature]* Title Operations Engineer Date 18 Mar 91

(State Use Only)

*3-27-91*  
*JAN Matthews*

ORAI APPROVAL TO PLUG AND ABANDON WELL

Operator Chuska  
 Representative Chris Hill Telephone No 505-326-5525  
 Well Name and No. Beaver 12L-1  
 Location 1/4 1/4, Sec. 12 T. 42S R. 23E County San Juan  
 Lease Type (Federal, Tribal, State or Private) Tribal NO6870  
 Has operator obtained proper Federal or Tribal approval? 2-11/16  
 T. D. 5351 Open hole from 500 to 5351

Hole Size	Casing Size	Set at	TOC	Pull Casing?
<u>12 1/4</u>	<u>8 5/8</u>	<u>500</u>		
<u>7 7/8</u>	<u>7 1/8</u>			

Formation	Top	Base	Shows?
<u>Upper ls</u>	<u>4950'</u>		
<u>Hemlock</u>	<u>4259'</u>		
<u>Wichitka</u>	<u>2473'</u>		
<u>Chinle</u>	<u>1382'</u>		

Plugging procedure:

- #1 TD-4900 270 sk O/G
- #2 4309-4209 60 sk O/G
- #3 2573-2423 60 sk O/G
- #4 1432-1332 60 sk O/G
- #5 550-450 55 sk O/G + 2% PnCh
- #6 25 sk 50' to surface O/G + 2% PnCh

Remarks: (DST's, LCZ's, Water flows, etc.)

Plugging to take place Monday morning  
4-29-91 -

Approved by JM Newton Date 4-22-91 Time 3:49

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

6. Lease Designation and Serial Number  
NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

**SUNDRY NOTICES AND REPORTS ON WELLS**

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

1. Type of Well  
 Oil Well     Gas Well     Other (specify)

9. Well Name and Number  
Beaver 12L 1

2. Name of Operator  
Chuska Energy Company

10. API Well Number  
43-037-31565

3. Address of Operator  
3315 Bloomfield Highway, Farmington, NM 87401

4. Telephone Number  
(505) 326 5525

11. Field and Pool, or Wildcat  
Wildcat

5. Location of Well  
Footage : 1620' FSL, 25' FWL  
QQ, Sec, T., R., M.: NW/4 SW/4 S12 T42S R23E

County : San Juan  
State : UTAH

**CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA**

**NOTICE OF INTENT**  
(Submit in Duplicate)

- Abandonment
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Multiple Completion
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start 4-29-91

**SUBSEQUENT REPORT**  
(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
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- Recompletion
- Vent or Flare
- Water Shut-Off

Date of Work Completion \_\_\_\_\_

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.

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.)

PLUG	FROM	TO	SX	ZONES COVERED
1	5,351	4,900	270	DESERT CREEK, L ISMAY, U ISMAY
2	4,309	4,209	60	HERMOSA
3	2,523	2,423	60	DE CHELLY
4	1,432	1,332	60	CHINLE
5	550	450	55	SURFACE CASING SHOE
6	50	0	25	SURFACE

ALL PLUGS WILL BE CLASS 'G' NEAT CEMENT. PLUGS 5 AND 6 WILL CONTAIN 2% CALCIUM CHLORIDE. ALL PLUGS WILL BE DISPLACED WITH MUD. VERBAL APPROVAL FROM Frank Matthews AT 1550 HRS, 4-22-91.

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

Name & Signature Christopher S.W. Hill

Title Operations Engineer

Date 23 Apr 91

(State Use Only)

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

DATE: 4-30-91  
BY: Frank Matthews

**RECEIVED**

APR 26 1991

DIVISION OF  
OIL GAS & MINING



# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021  
FAX #: (303) 863-7210

May 17, 1991

Ms. Vicki Kearney  
Utah Oil & Gas Commission  
355 West North Temple  
Three Triad Center  
Suite 350  
Salt Lake City, Utah  
84180-1203

Dear Ms. Kearney:

Please keep all Chuska Energy Company data confidential until further notice.

Thanks,

Herbert P. Mosca  
Chuska Staff Geologist

**RECEIVED**

MAY 20 1991

DIVISION OF  
OIL GAS & MINING



# CHUSKA ENERGY COMPANY

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

6 May, 1991

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

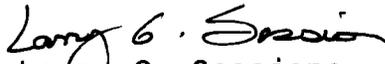
Ref: Sundry Notice: Beaver 12L 1 Well  
Subsequent Notice of Abandonment

Gentlemen

Attached for your examination and approval are the original and two copies of the subject Sundry Notice.

Please advise if you require additional information concerning this submission.

Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.12L\2P&ASUN.CVR

encl.

RECEIVED

MAY 13 1991

DIVISION OF  
OIL GAS & MINING

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

6. Lease Designation and Serial Number  
NOG 8702-1116

7. Indian Allottee or Tribe Name

Navajo Tribal

8. Unit or Communitization Agreement

**SUNDRY NOTICES AND REPORTS ON WELLS**

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Use APPLICATION FOR PERMIT-- for such proposals

**CONFIDENTIAL**

1. Type of Well  
 Oil Well  Gas Well  Other specify

9. Well Name and Number  
Beaver 12L 1

2. Name of Operator  
Chuska Energy Company

10. API Well Number  
43-037-31565

3. Address of Operator  
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4. Telephone Number  
(505) 326 5525

11. Field and Pool, or Wildcat  
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5. Location of Well  
Footage : 1620' FSL, 25' FWL  
QQ, Sec. T., R., M.: NW/4 SW/4 S12 T42S R23E

County: San Juan  
State: UTAH

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**NOTICE OF INTENT**  
(Submit in Duplicate)

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- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Shoot or Acidize
- Vent or Flare
- Water Shut-Off

Approximate Date Work Will Start \_\_\_\_\_

**SUBSEQUENT REPORT**

(Submit Original Form Only)

- Abandonment \*
- Casing Repair
- Change of Plans
- Conversion to Injection
- Fracture Treat
- Other
- New Construction
- Pull or Alter Casing
- Recompletion
- Vent or Flare
- Water Shut-Off

Date of Work Completion 5-2-91

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.

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.)

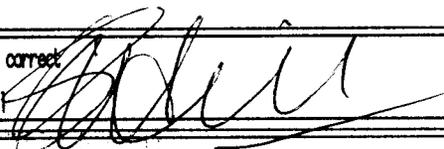
MIRU completion rig. Retrieved bridge plug. RIH and cleaned out to TD. Plugged and abandoned as follows:

Plug	From	To	Sx	Zones Covered
1	5,351	4,900	270	Desert Creek, L Ismay, U Ismay
2	4,309	4,209	60	Hermosa
3	2,523	2,423	60	de Chelly
4	1,432	1,332	60	Chinle
5	550	450	55	Surface casing shoe
6	50	0	25	Surface

All plugs Class 'G' neat cement. Plugs 5 and 6 + 2% CaCl<sub>2</sub>. Plugs displaced with mud. Rig released 2400 hrs, 5-2-91. Operation witnessed by BLM - Herman Lujan.

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

Name & Signature Christopher S.W. Hill



Title Operations Engineer

Date 6 May 91

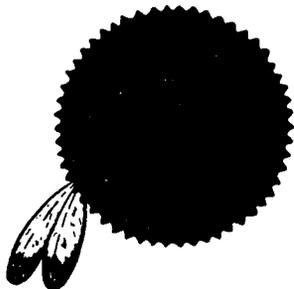
(State Use Only)

**RECEIVED**

MAY 13 1991

DIVISION OF  
OIL GAS & MINING

5-17-91  
SM Jathelus See Instructions on Reverse Side



# CHUSKA ENERGY COMPANY

1775 SHERMAN STREET - SUITE 1800 • DENVER, COLORADO 80203 • PHONE: (303) 863-7021  
FAX #: (303) 863-7210

May 17, 1991

Ms. Vicki Kearney  
Utah Oil & Gas Commission  
355 West North Temple  
Three Triad Center  
Suite 350  
Salt Lake City, Utah  
84180-1203

Dear Ms. Kearney:

Please keep all Chuska Energy Company data confidential until further notice.

Thanks,

*Hub*

Herbert P. Mosca  
Chuska Staff Geologist

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DIVISION OF  
OIL GAS & MINING



# CHUSKA ENERGY COMPANY

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

22 May, 1991

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

Ref: Dry Hole Completion Report: Beaver 12L-1 Well

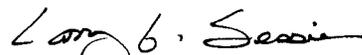
Gentlemen

Attached for your examination and approval is the original and two copies of the subject Dry Hole Completion Report.

Chuska requests that the information contained in this report be kept confidential.

Please advise if you require additional information concerning this submission.

Sincerely,

  
Larry G. Sessions  
Operations Manager

LGS/csw  
File: C:\WP51\BEAVER.12L\CRCOVER

encl.

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DIVISION OF  
OIL GAS & MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_  
 b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR  Other \_\_\_\_\_

2. NAME OF OPERATOR  
**Chuska Energy Company**

3. ADDRESS OF OPERATOR  
**3315 Bloomfield Highway, Farmington, NM 87401**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)  
 At Surface **1620' FSL, 25' FWL**  
 At top prod. interval reported below **Same**  
 At total depth **Same**

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**Navajo Tribal**

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Beaver 12L**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., N., OR BLOCK AND SURVEY OR AREA  
**S12 T42S R23E**

14. API NO. **43-037-31565** DATE ISSUED **10-12-90** 12. COUNTY **San Juan** 13. STATE **Utah**

15. DATE SPUDDED **2-25-91** 16. DATE T.D. REACHED **3-11-91** 17. DATE COMPL. (Ready to prod.) **5-2-91** 18. ELEVATIONS (OF, RKB, RT, OR ETC.) **4,962' GR** 19. ELEV. CASINGHEAD **4,962' GR**

20. TOTAL DEPTH, HD & **5,351'(D)/5,349'(L)** 21. PLUG BACK T.D., HD & TYD **Surface** 22. IF MULTIPLE COMPL., HOW MANY  
 23. INTERVALS DRILLED BY **Rotary** ROTARY TOOLS **Rotary** CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (HD AND TYD)  
 25. WAS DIRECTIONAL SURVEY MADE  
**No**

26. TYPE ELECTRIC AND OTHER LOGS RUN **3-25-91**  
**DL/MSFL/GR/CAL, 4DT/CNL/MLT/GR/CAL 3-18-91**  
**CHCS/GR/CAL, SHDT, VSP Cyberlock, Directional Survey**  
 27. WAS WELL CORED YES  NO  (Submit analysis)  
 DRILL STEM TEST YES  NO  (See reverse side)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (HD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8"	24	510	12 1/4"	375 sx 'G' + 2% CaCl <sub>2</sub> Circulated 15 bbl slurry to surface	

29. LINER RECORD

SIZE	TOP (HD)	BOTTOM (HD)	SACKS CEMENT	SCREEN (HD)

30. TUBING RECORD

SIZE	DEPTH SET (HD)	PACKER SET (HD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (HD)	AMOUNT AND KIND OF MATERIAL USED

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

33. PRODUCTION

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

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

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

SIGNED *Christopher S. Hill* TITLE Operations Engineer DATE 22 May 91

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			38. GEOLOGIC MARKERS			
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.	Name	Top	
					Meas. Depth    True Vert. Depth	
Core #1	5180		Desert Creek. Recovered 30' of 31' cut	Hermosa	4259	4259
Core #2	5111	5111	Desert Creek. Recovered 100%	Upper Ismay	4950	4950
Core #3	5242	5242	Desert Creek. Recovered 100%	Hovenweep Shale	5055	5055
				Lower Ismay	5068	5068
				Gothic Shale	5110	5110
				Desert Creek	5146	5146
				Chimney Rock Shale	5255	5255
				Akah	5268	5268

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