

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED  
OLM

FORM APPROVED  
Budget Bureau No. 1004-013  
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.

SUBMIT IN TRIPLICATE

SEP 10 1993

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Chuska Energy Company

3. Address and Telephone No.

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

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

370' FSL, 1750' FEL  
Section 33, T41S, R25E

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.  
Clay Hill 330

9. API Well No.  
43-037-31723

10. Field and Pool, or Exploratory Name  
Wild Cat

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 type="checkbox"/> Notice of Intent	<input 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 checked="" type="checkbox"/> Other <u>Production CSG</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

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 directional, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

DRILLED TO 5465'. LOGGED & RAN 131 JTS 5 1/2, 15.50, K-55, LTC CSG, FLOAT SHOE, FLOAT COLLAR, DV TOOL, AND LANDED AT 5462' KB. DV TOOL @ 3481'. CEMENTED RECIPROCATING PIPE AS FOLLOWS:

STAGE #1: LEAD W/ 20 BBL MF + 406 SX HALIBURTON LIGHT PREMIUM CMT W/ 1/4#/SX FLOCELE (12.7 PPG). TAIL-IN W/ 100 SX PREMIUM CMT W/ 2% CaCl2 (15.8 PPG). DISPLACE W/ WATER AND CIRCULATE 58 BBLs CEMENT TO SURFACE.

STAGE #2: LEAD W/ 20 BBLs MF + 1160 SX HALIBURTON LIGHT PREMIUM CMT W/ 1/4#/SX FLOCELE (12.7 PPG). TAIL-IN W/ 100 SX HALIBURTON PREMIUM + 2% CaCl2 (15.8 PPG). CIRCULATE 80 BBLs CEMENT TO SURFACE. PLUG DOWN AT 2045 HRS, 11-22-91.

RELEASE RIG @ 0200 HRS, 11-23-91.

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

Signed Young A. Chambers

Title Production Engineer

Date 12-28-91

(This space for Federal or State office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title \_\_\_\_\_

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 statements or representations as to any matter within its jurisdiction.

\*See Instruction on Reverse Side

OPERATOR

FARMINGTON RESOURCE AREA

BY \_\_\_\_\_

## GENERAL INSTRUCTIONS

Form is designed for submitting proposals to perform certain well operations and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, if approved or accepted by any State, on all lands in such State, and on lands subject to applicable State law and regulations. Any necessary special in-

structions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

## SPECIFIC INSTRUCTIONS

1—If there are no applicable State requirements, locations on Federal and Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

3—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal or State offices. In addition, such proposals and reports should include the following information for the abandonment; data on any former or present productive

zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

## NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

**PRINCIPAL PURPOSE** — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

### ROUTINE USES:

- (1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.
- (2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).
- (3) Analyze future applications to drill or modify operations in light of data obtained and methods used.
- (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

**EFFECT OF NOT PROVIDING INFORMATION** — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that this information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

## BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

SEP 10 1993

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**  
Use this form for proposals to drill new wells, deepen existing wells, or to rework plugged and abandoned wells.  
Use APPLICATION FOR PERMIT for such proposals.

1. Type of Well <input checked="" 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 Hwy. Farmington NM 87401	4. Telephone Number 505-326-5525
5. Location of Well Footage : 370' FSL, 1750' FEL County : San Juan QQ, Sec. T., R., M. : S33, T41S, R25E State : UTAH	

9. Well Name and Number Clay Hill 330
10. API Well Number 43-037-70046-3723
11. Field and Pool, or Wildcat Wildcat

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <table> <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><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <table> <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"/> Shoot or Acidize</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>Production Casing</u></td><td></td></tr> </table> <p>Date of Work Completion _____</p> <p>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 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 checked="" type="checkbox"/> Other <u>Production Casing</u>	
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<input checked="" type="checkbox"/> Other <u>Production 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.)

Drilled to 5465'. Logged & ran 131 jts 5 1/2", 15.5 K-55, LTC csg, float shoe, float collar DV tool and landed at 5462' KB. DV tool @ 3481'. Cemented reciprocating pipe as follows:

Stage #1: Lead with 20 bbl MF + 406 sx Haliburton Light Premium CMT with 1/4#/sx Flocele (12.7 PPG). Tail in with 100 sx Premium CMT with 2% CaCl<sub>2</sub> (15.8 PPG). Displace with water and circulate 58 bbls cement to surface.

Stage #2: Lead with 20 bbl MF + 1160 sx Haliburton Light Premium CMT with 1/4#/sx flocele (12.7 PPG). Tail in with 100 sx Haliburton Premium + 2% CaCl<sub>2</sub> (15.8 PPG). Circulate 80 bbls cement to surface. Plug down at 2045 hrs, 11-22-91.

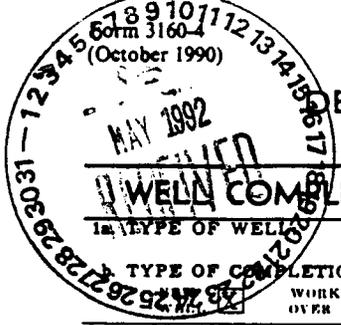
Release rig @ 0200 hrs, 11-23-91.

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

Name & Signature Barry A. Wieland  Title Operations Manager Date 5-26-93

(State Use Only)

SEP 10 1993



UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE (Other Instructions on reverse side)

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

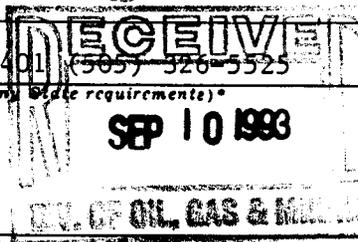
WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1. TYPE OF WELL: OIL WELL, GAS WELL, DRY, Other. TYPE OF COMPLETION: WORK OVER, DEEPEN, PLUG BACK, DIFF. GENVR., Other.

2. NAME OF OPERATOR: CHUSKA ENERGY COMPANY

3. ADDRESS AND TELEPHONE NO.: 3315 BLOOMFIELD HWY, FARMINGTON, NM 87401 (505) 326-5525

4. LOCATION OF WELL: At surface 370' FSL & 1750' FEL. At top prod. interval reported below. At total depth Same.



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, WELL NO.: CLAY HILL 33-0. 9. API WELL NO.: 33-T41S- R25E. 10. FIELD AND POOL, OR WILDCAT: WILD CAT. 11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA: 33-T41S- R25E.

12. COUNTY OR PARISH: SAN JUAN. 13. STATE: UTAH. 14. PERMIT NO.: 43-037-3173. DATE ISSUED: 9/10/93.

15. DATE SPUDDED: 11-8-91. 16. DATE T.D. REACHED: 11-20-91. 17. DATE COMPL. (Ready to prod.): 11-23-91. 18. ELEVATIONS (DP, RKB, RT, GR, ETC.): 4533' GR 4546' KB. 19. ELEV. CASINGHEAD: 4533' GR.

20. TOTAL DEPTH, MD & TVD: 5465'. 21. PLUG BACK T.D., MD & TVD: N/A. 22. IF MULTIPLE COMPL., HOW MANY?: 1. 23. INTERVALS DRILLED BY: ROTARY TOOLS YES, CABLE TOOLS NO.

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*: DESERT CREEK: 5267'-5344'. 25. WAS DIRECTIONAL SURVEY MADE: YES.

26. TYPE ELECTRIC AND OTHER LOGS RUN: DLL/MSFL/GR/CAL, CNL/FDC/LAT/GR/CAL, BHC/CAL/GR, CBL/CCL/GR. 27. WAS WELL CORED: YES.

28. CASING RECORD (Report all strings set in well). Table with columns: CASING SIZE/GRADE, WEIGHT, LB./FT., DEPTH SET (MD), HOLE SIZE, TOP OF CEMENT, CEMENTING RECORD, AMOUNT PULLED.

29. LINER RECORD and 30. TUBING RECORD. Tables with columns: SIZE, TOP (MD), BOTTOM (MD), SACKS CEMENT, SCREEN (MD), SIZE, DEPTH SET (MD), PACKER SET (MD).

31. PERFORATION RECORD (Interval, size and number). 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. Table with columns: DEPTH INTERVAL (MD), AMOUNT AND KIND OF MATERIAL USED.

33. PRODUCTION. DATE FIRST PRODUCTION: NONE. PRODUCTION METHOD: (Flowing, gas lift, pumping—size and type of pump). WELL STATUS: (Producing or shut-in).

Table with columns: DATE OF TEST, HOURS TESTED, CHOKE SIZE, PROD'N. FOR TEST PERIOD, OIL—BBL., GAS—MCF., WATER—BBL., OIL-OIL RATIO. Includes sub-table for FLOW, TUBING PRESS., CASING PRESSURE, CALCULATED 24-HOUR RATE, OIL—BBL., GAS—MCF., WATER—BBL., OIL QUANTITY (CORR.).

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

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: [Signature] TITLE: Operations Manager DATE: MAY 07 1992

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

FARMINGTON RESOURCE AREA BY: [Signature]

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

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.	NAME	TOP	
					MEAS. DEPTH	TRUE VERT. DEPTH
CORE #1	5278'	5338'	100% RECOVERY. DESERT CREEK	HERMOSA	4252'	4252'
CORE #2	5338'	5398'	100% RECOVERY. DESERT CREEK	UPPER ISMAY	5076'	5076'
CORE #3	5398'	5430'	100% RECOVERY. DESERT CREEK/CHIMNEY ROCK SHALE	HOVEN WEEP SHALE	5182'	5182'
				LOWER ISMAY	5188'	5188'
				GOTHIC SHALE	5238'	5238'
				DESERT CREEK	5252'	5252'
				CHIMNEY ROCK SHALE	5412'	5412'
				AKAH	5424'	5424'
<p>ACIDIZING INJECTED VOLUMES:</p> <p>5267'-5281' 75 GAL 7 1/2% HCL, 1400 GAL 28% HCL + 7,500 GAL 28% HCL, 600 GAL GELLED BRINE W/ 2#/GAL NaCl<sub>2</sub> DIVERTER.</p> <p>5292'-5302' 75 GAL 7 1/2% HCL, 1000 GAL 28% HCL</p> <p>5333'-5344' 75 GAL 7 1/2% HCL, 1100 GAL 28% HCL 3500 GAL 28% GELLED ACID W/300 GAL GELLED BRINE.</p>						

SEP 10 1993

U.S. GEOLOGICAL SURVEY

38. GEOLOGIC MARKERS



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

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

5. Lease Designation and Serial No.

NOG 8702-1116

6. If Indian, Altona or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

8. Well Name and No.

9. API Well No.

43037-31723

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

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)

Section 33-T41S-R25E  
370' FSL 1750' FEL

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 type="checkbox"/> Change of Plans
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion	<input type="checkbox"/> New Construction
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Altering Casing	<input type="checkbox"/> Conversion to Injection
	<input checked="" type="checkbox"/> Other <u>Spud/Surface Casing</u>	<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.)

MIRU Aztec Rig #184. Spudded 0400 hrs, 11-8-91. Drilled 12 1/4" hole to 514'. RU and ran 12 jts 8 5/8", 24#, J-55 STC casing and landed at 507'. Cemented w/375 sx Class 'G' cement w/2% CaCl2 & 1/4 #/sk celloflake. Good returns to surface. Notification of spud by Jim Myers, to BLM, Mr. Beckman @ 4:00 pm, 11-7-91.

SEP 10 1993

ACCEPTED FOR RECORD

JAN 03 1992

FARMINGTON RESOURCE AREA

BY 5-23

019 FARMINGTON, N.M.

91 NOV 22 PM 2:53

RECEIVED  
BLM

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

Signed Gary A. Chambers Title Production Eng. Date 11/19/91

(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 statement or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side

OPERATOR

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work  
 DRILL  DEEPEN  PLUG BACK

b. Type of Well  
 Oil Well  Gas Well  Other  Single Zone  Multiple Zone

2. Name of Operator  
 Chuska Energy Company

3. Address of Operator  
 3315 Bloomfield Hwy. Farmington, NM 87401 505-326-5525

4. Location of Well (Report location clearly and in accordance with any State requirements.)  
 At surface 370' FSL, 1750' FEL SWSE  
 At proposed prod. zone Same

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

6. If Indian, Allottee or Tribe Name  
 Navajo Tribal

7. Unit Agreement Name

8. Farm or Lease Name  
 Clay Hill

9. Well No.  
 330 33-0

10. Field and Prod. or Wildcat  
 Wildcat

11. 30, Sec., T., R., S., or 6th. and Survey or Area  
 S33-T41S-R25E

12. County or Partion  
 San Juan

13. State  
 Utah

14. Distance in miles and direction from nearest town or post office\*  
 9 1/2 Miles SE of Montezuma Creek, Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drg. line, if any) 950'

16. No. of acres in lease 49.997

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. 10,316'

19. Proposed depth 5,496' KB

20. Rotary or cable tool  
 Rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
 4,533' GR/4,546' KB

22. Approx. date work will start\*  
 10-14-91

**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	5,496'	711 SX 'G' 65:35 Poz + 6% Gel

Refer to attached 10 Point Drilling Plan ect.

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 General or State office use)

APP NO. 43-037-31723 Approval Date \_\_\_\_\_

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

\*See Instructions On Reverse Side

(3/89)

SEP 10 1993

BLM Approved  
 10-30-91  
 R649-3-3

10/22/93

api num: 43-037-31723

DETAILED WELL DATA

prod zone:

sec

townshp

menu: opt 00

range gr-gr

25E SWSE

entity:

well name: CLAY HILL 33-0

33

415

operator:

: CHUSKA ENERGY COMPANY

meridian:

field:

: UNDESIGNATED

confidential flag:  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: 370 FSL 1750 FEL

unit name:

prod zone loc: " "

depth: 5496

proposed zone: 1S-DC

elevation: 4533 GR

apd date: 10-30-91

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:

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK   
 b. TYPE OF WELL  
 OIL WELL  GAS WELL  OTHER  SINGLE ZONE  MULTIPLE ZONE   
 2. NAME OF OPERATOR  
 Chuska Energy Company  
 3. ADDRESS OF OPERATOR  
 3315 Bloomfield Highway, Farmington, NM 87401  
 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At Surface 370' FSL, 1750' FEL  
 At proposed prod. zone Same SWSE

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  
 Clay Hill  
 9. WELL NO.  
 33-0  
 10. FIELD AND POOL, OR WILDCAT  
 Wildcat  
 11. SEC., T., R., N., OR BLK. AND SURVEY OR AREA  
 S33 T41S R25E  
 12. COUNTY OR PARISH  
 San Juan  
 13. STATE  
 Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 9 1/2 miles SE of Montezuma Creek, Utah  
 15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT.  
 (Also to nearest drlg. unit line, if any) 950'  
 16. NO. OF ACRES IN LEASE  
 49,997  
 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.  
 10,316'  
 19. PROPOSED DEPTH  
 5,496' KB  
 20. ROTARY OR CABLE TOOLS  
 Rotary  
 21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4,533' GR/4,546' KB  
 22. APPROX. DATE WORK WILL START\*  
 10-14-91

23. *This action is subject to technical and procedural review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4.*  
 PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	GENERAL 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	5,496'	771 sx 'G', 55:35 Poz + 5% Ca!

DRILLING OPERATIONS AUTHORIZED AND SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL OPERATIONS MANUAL"

Refer to attached 10-Point Drilling Plan etc.

RECEIVED  
 SEP 10 1993  
 AREA MANAGER

24. 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 Operations Engineer  
 (This space for Federal or state office use)  
 PERMIT NO. 43-037-31723 APPROVAL DATE SEP 30 1991  
 APPROVED BY [Signature] TITLE AREA MANAGER  
 CONDITIONS OF APPROVAL, IF ANY:

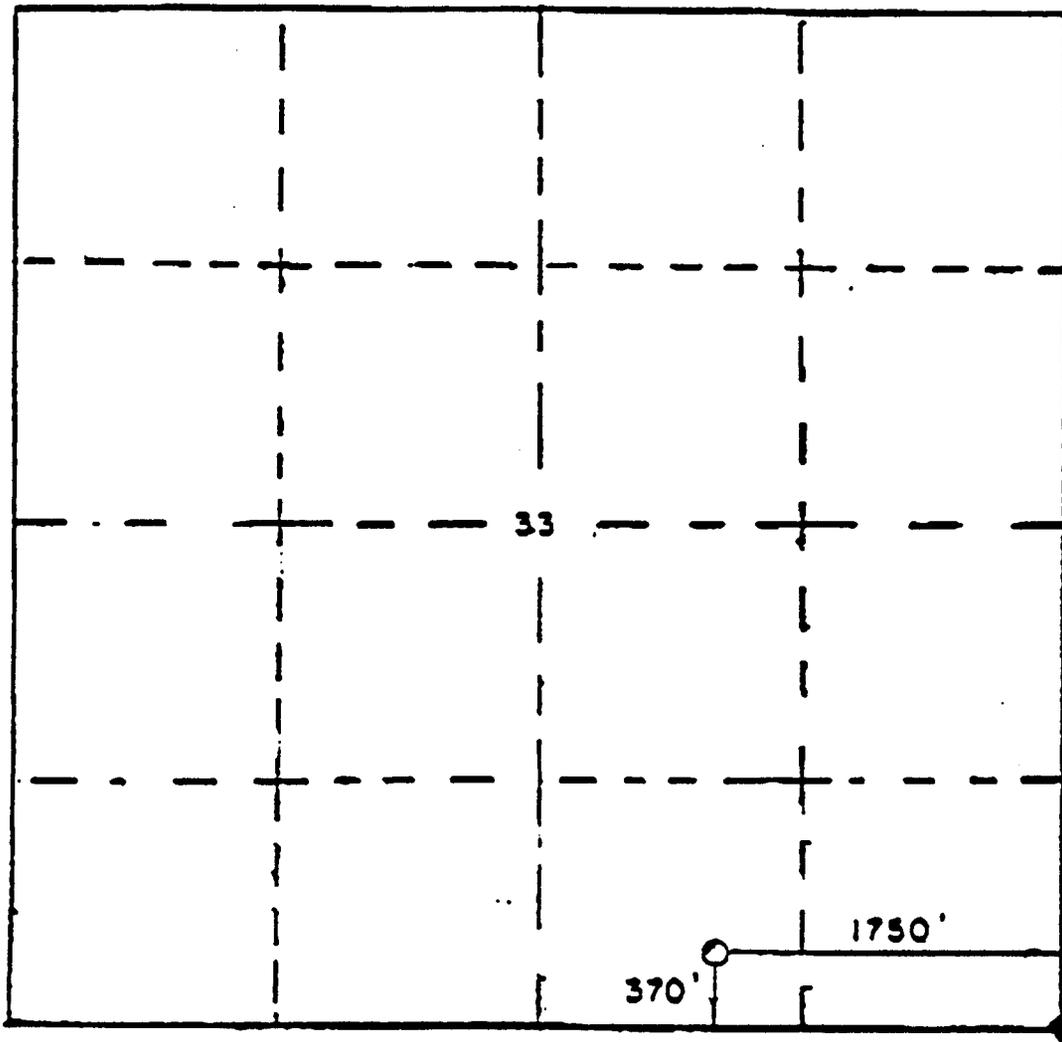
\*(See Instructions On Reverse Side)

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.

OPERATOR

R649-3-3

WELL LOCATION PLAT



WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Clay Hill 33 - O  
 370'FSL & 1750'FEL  
 Section 33, T.41 S., R.25 E., SLM  
 San Juan County, UT  
 4533' ground elevation  
 State plane coordinates from seismic control:  
 X = 2,677,255      Y = 192,600  
 station 599.55, 58'right (SE'erly)  
 Line 400-16(S)

The above is true and correct to my knowledge and belief

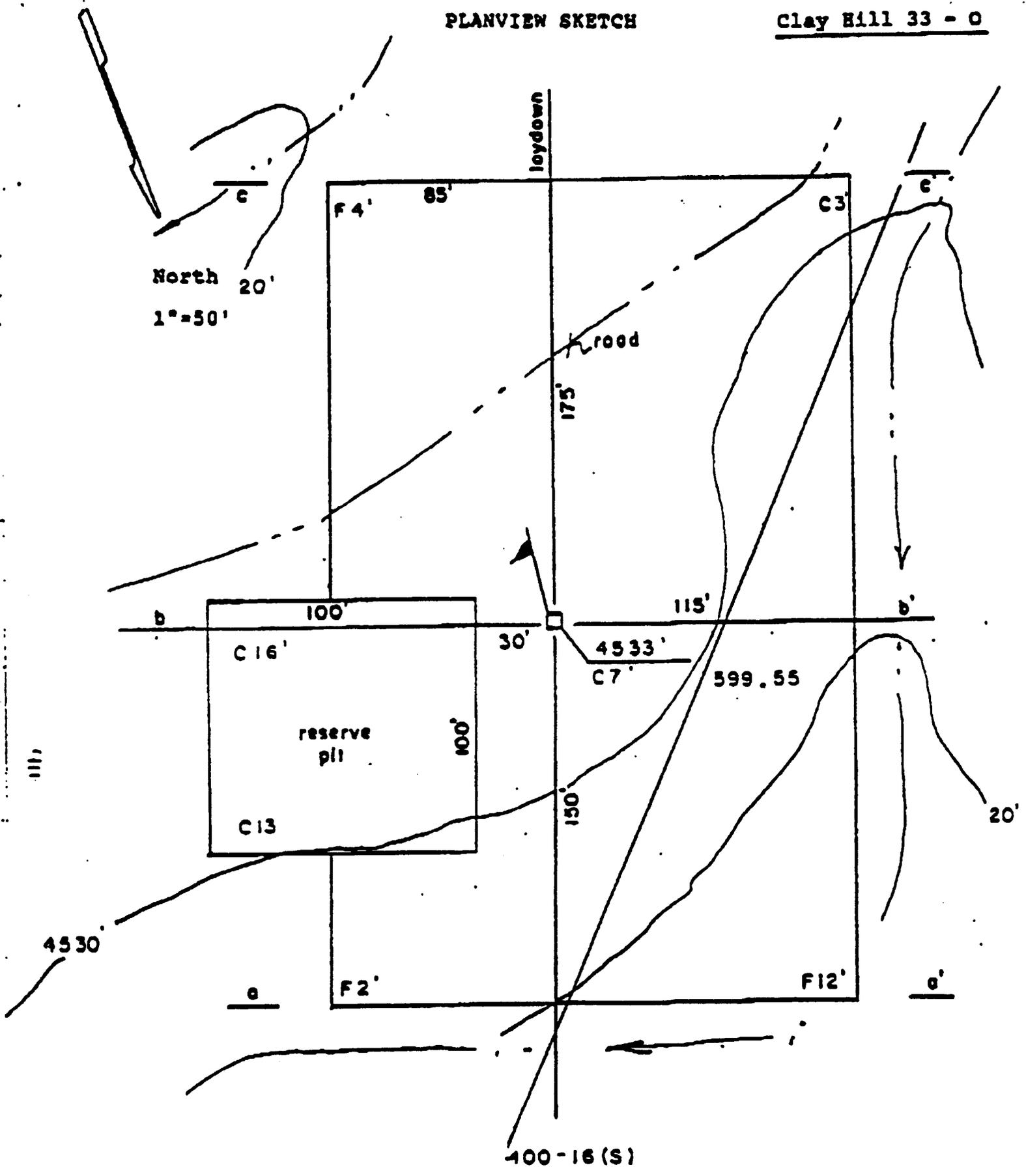
9 April 1991

*Gerald G. Huddleston*  
 Gerald G. Huddleston



PLANVIEW SKETCH

Clay Hill 33 - 0



CROSS SECTION

Clay Hill 33 - 0

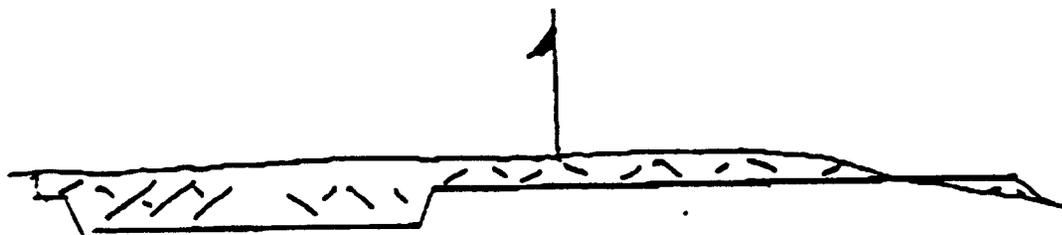
Cut   
Fill 

1"=50' vert. & horz.



c

c'



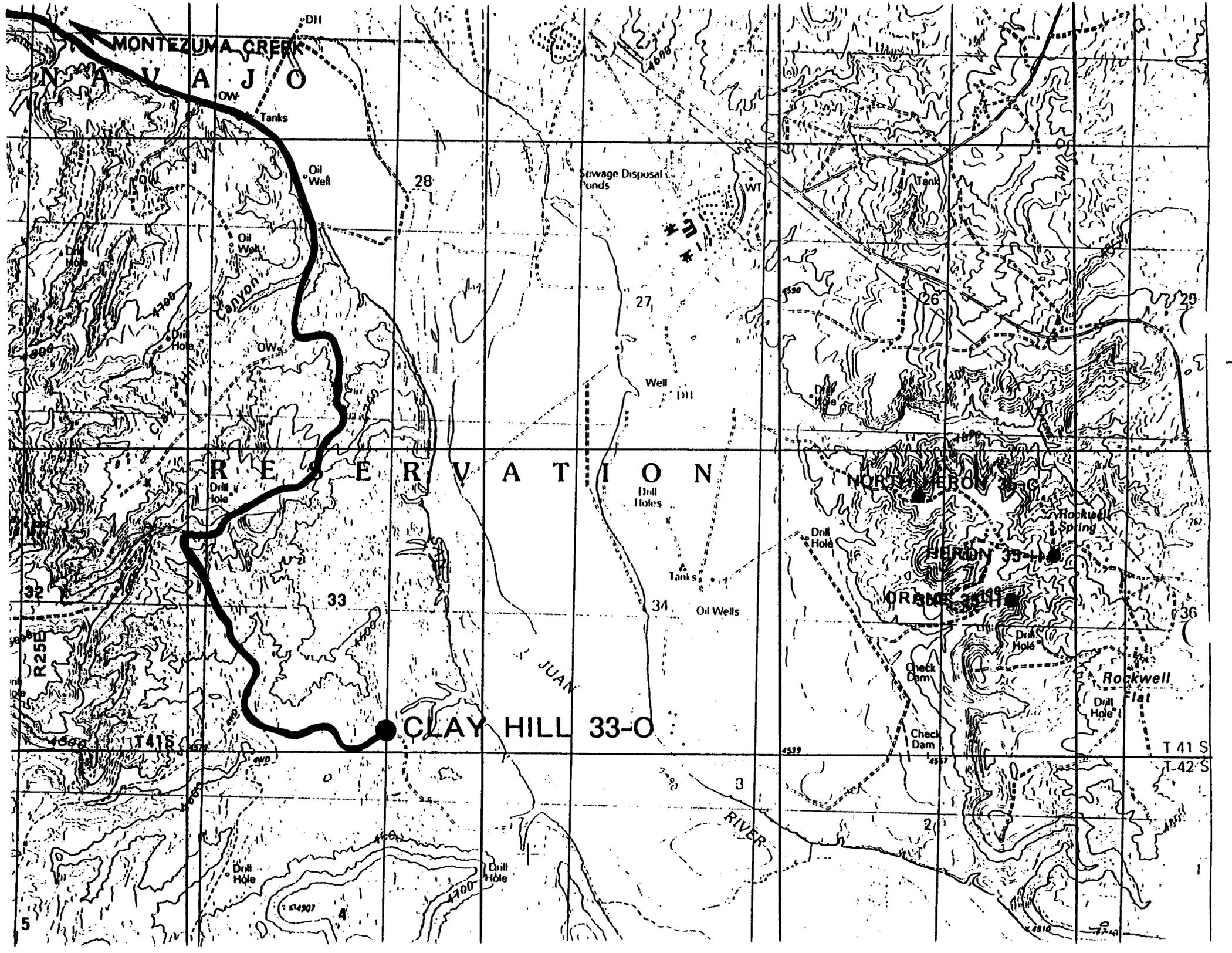
b

b'



a

a'



CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Clay Hill Well No. 33-0  
Section 33, Township 41S, Range 25E  
370' FSL, 1750' FEL  
San Juan County, Utah

1. SURFACE FORMATION

Geological name of surface formation: Morrison

2. ELEVATION

Surface elevation is 4,533' GR/4,546' KB.

3. ESTIMATED FORMATION TOPS

<u>Depth</u>	<u>Formation</u>	<u>Sub Sea Elevation</u>	
Surface	Morrison	+ 4,546'	
462'	Navajo	+ 4,084'	
	Wingate		
1,212'	Chinle	+ 3,334'	
2,352'	DeChelly	+ 2,194'	
2,502'	Organ Rock	+ 2,044'	
3,127'	Cedar Mesa	+ 1,419'	
4,199'	Hermosa	+ 347'	
5,046'	Upper Ismay	- 500'	
5,146'	Lower Ismay	- 600'	
5,221'	Desert Creek	- 675'	Primary Objective
5,391'	Akah	- 845'	
5,496'	Total Depth	- 950'	

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:	5,496'	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 127 sx Class 'G' cement, 65:35 Pozmix, with 6% gel. Weight = 12.7 ppg, yield = 1.85 ft<sup>3</sup>/sk. Tail with 189 sx Class 'G' cement with 2% CaCl<sub>2</sub>. Weight = 15.8 ppg, yield = 1.15 ft<sup>3</sup>/sk. Total of 453 ft<sup>3</sup>. Bring Class 'G' slurry to 500' above top of Upper Ismay. Cement volumes calculated at 30% excess in open hole. WOC 4 hours between stages.

### Second Stage

3,500' to surface. Lead with 355 sx Class 'G' cement, 65:35 Pozmix with 6% gel. 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 3,000'

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

### 3,000' to T.D.

Low solids, non-dispersed polymer system. Weight 8.6 - 9.3 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.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 16 days. Anticipated spud date is 10-14-91.

EXHIBIT "A"  
BLOWOUT PREVENTER

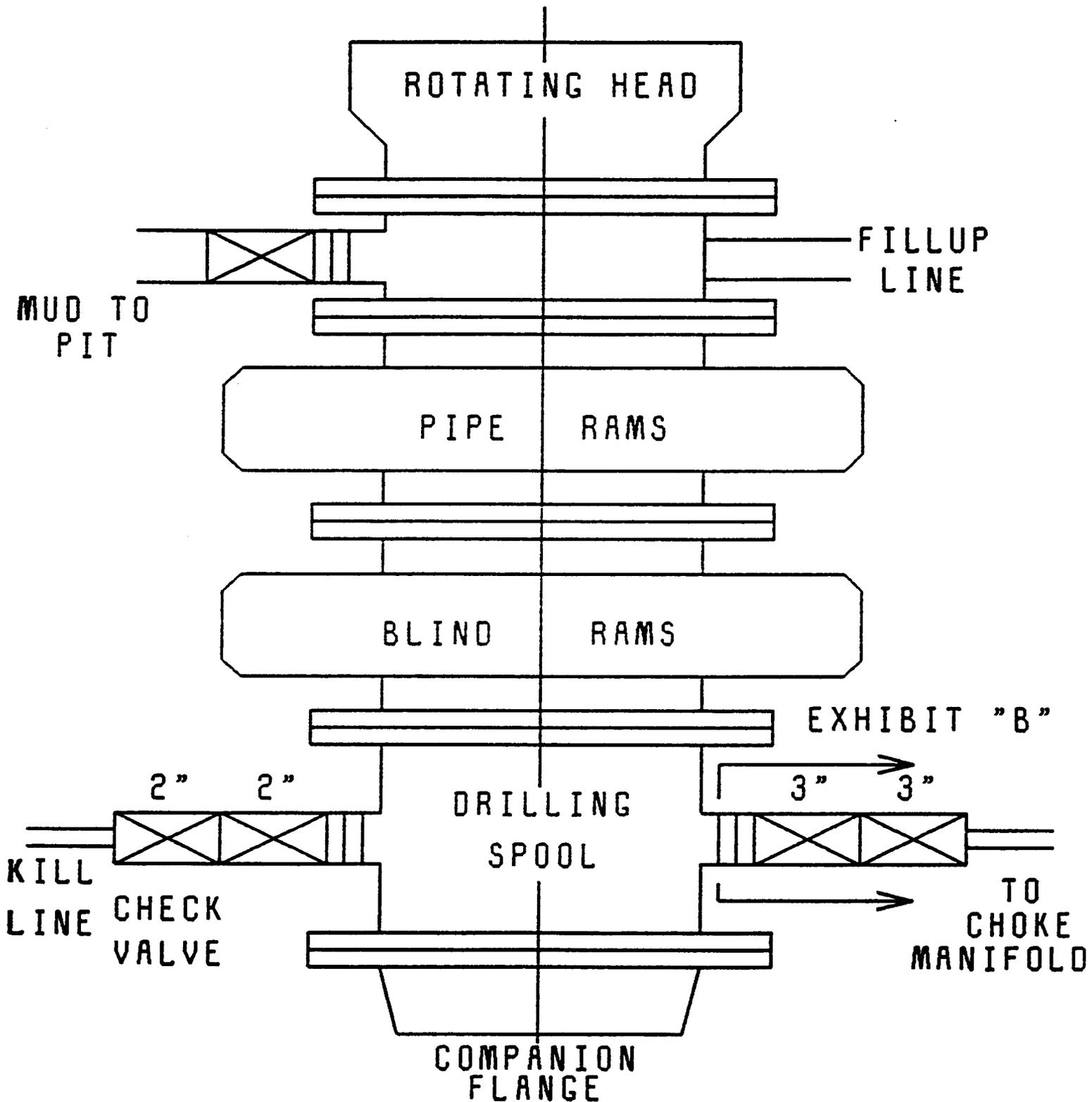
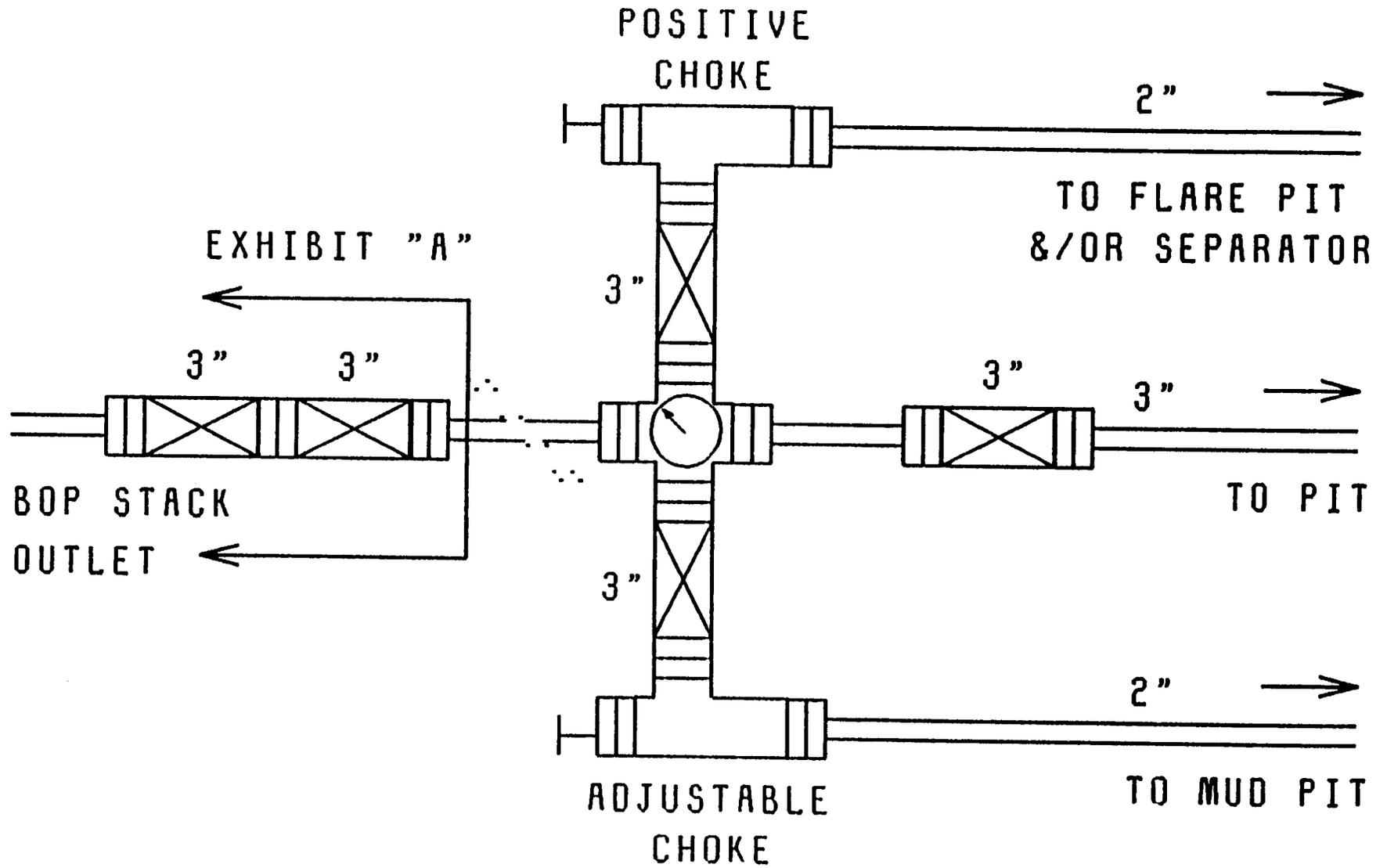


EXHIBIT "B"  
CHOKE MANIFOLD



## DETAILED DRILLING PROGRAM

DATE: 18 July, 1991

WELL NAME: Clay Hill WELL NO.: 33-0

LOCATION: Section 33, Township 41S, Range 25E  
370' FSL, 1750' FEL  
San Juan County, Utah

ELEVATION: 4,533' GR/4,546' KB

TOTAL DEPTH: 5,496' KB KB

PROJECTED HORIZON: Primary target is Desert Creek at 5,221'.

### 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.

Clay Hill Well No. 33-0  
Section 33, Township 41S, Range 25E  
370' FSL, 1750' FEL  
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.

Clay Hill Well No. 33-0  
Section 33, Township 41S, Range 25E  
370' FSL, 1750' 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 to Montezuma Creek. 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 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. Owing to the well's proximity to an existing road, no new road will need 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 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 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 as required, 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 east/south west trend and will require up to 16' of cut in the reserve pit (up to 3' of cut in the western corner of the location pad) and up to 12' of fill in the northern 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 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.

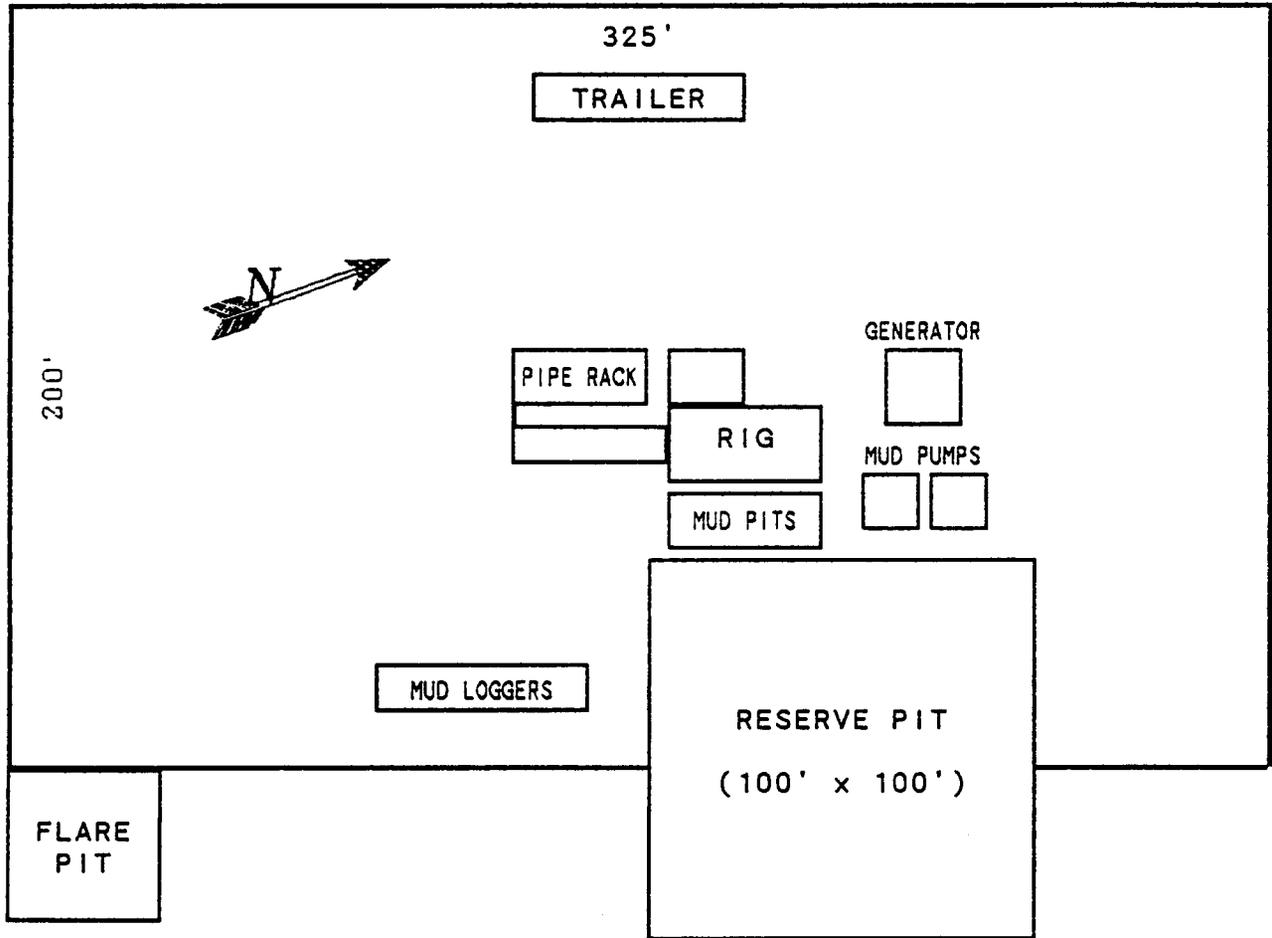
  
LARRY G. SESSIONS  
Operations Manager

# CLAY HILL 33-0

370' FSL, 1750' FEL

SECTION 33, TOWNSHIP 41S, RANGE 25E

SAN JUAN COUNTY, UTAH





# United States Department of the Interior

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



IN REPLY REFER TO:  
3162.3-1 (019)

Chuska Energy Company  
#33-0 Clay Hill  
NOG 8702-1116  
SW $\frac{1}{4}$ SE $\frac{1}{4}$  sec. 33, T. 41 S., R. 25 E.  
San Juan County, Utah

Above Data Required on Well Sign

GENERAL REQUIREMENTS  
FOR  
OIL AND GAS OPERATIONS ON FEDERAL AND INDIAN LEASES

In addition to those requirements set forth in the laws, regulations and Onshore Orders, these requirements apply generally to all oil and gas operations on Federal and Indian leases. They apply specifically to the above-described well. Special requirements that apply and are effective for this well, if any, are check-marked in Section VII of these General Requirements. The failure of the operator to comply with these requirements and the filing of required reports will result in strict enforcement of 43 CFR 3163.1 or 3163.2.

I. GENERAL

A. Full compliance with all applicable laws, regulations, and Onshore Orders, with the approved Permit to Drill, and with the approved Surface Use and Operations Plan is required. Lessees and/or operators are fully accountable for the actions of their contractors and subcontractors.

B. Each well shall have a well sign in legible condition from spud date to final abandonment. The sign should show the operator's name, lease serial number, or unit name, well number, location of the well, and whether lease is Tribal or allotted. (see 43 CFR 3162.6(b)).

C. A complete copy of the approved Application for Permit to Drill, along with any conditions of approval, shall be available to authorized personnel at the drill site whenever active drilling operations are under way.

D. For Wildcat wells only, a drilling operations progress report is to be submitted weekly from spud date until the well is completed and the Well Completion Report (Form 3160-4) is filed. The report should be on 8 1/2 x 11 inch paper, and each page should identify the well by; operator's name, well number, location and lease number.

E. As soon as practical, notice is required of all blowouts, fires and accidents involving life-threatening injuries or loss of life. (See NTL-3A).

2. Well Completion Report (Form 3160-4) will be submitted within 30 days after well has been completed.

3. Two copies of all electrical and open-hole logs run (two copies of the mud log are required if no open hole electric logs are run).

4. A cement evaluation log if cement is not circulated to surface.

### III. DRILLER'S LOG

A. The following shall be entered in the daily driller's log:

1. Blowout preventer pressure tests, including test pressures and results.

2. Blowout preventer tests for proper functioning.

3. Blowout prevention drills conducted.

4. Casing run, including size, grade, weight, and depth set.

5. How pipe was cemented, including amount of cement, type, whether cement circulated to surface, location of cementing tools, etc..

6. Waiting on cement time for each casing string.

7. Casing pressure tests after cementing, including test pressure and results.

8. Estimated amounts of oil and gas recovered and/or produced during drillstem tests.

### IV. GAS FLARING

A. Gas produced from this well may not be vented or flared beyond an initial, authorized test period of \_\_\_\_\*\_\_\_\_ days or 50 MMcf following its (completion) (recompletion), whichever first occurs, without the prior, written approval of the authorized officer. Should gas be vented or flared without approval beyond the test period authorized above, you may be directed to shut-in the well until the gas can be captured or approval to continue venting or flaring as uneconomic is granted, and you shall be required to compensate the lessor for that portion of the gas vented or flared without approval which is determined to have been avoidably lost.

\* 30 days, unless a longer test period specifically is approved by the authorized officer. The 30-day period begins when the casing is first perforated for cased holes, and when Total Depth (TD) is reached for open hole completion.

BLM ENVIRONMENTAL STIPULATIONS

Operator Chuska Energy Company Well Name 33-0 Clay Hill  
Legal Location 370'FSL/1750'FEL Sec. 33 T. 41 S R. 25 E  
Lease Number NOG-8702-1116 Field Inspection Date 4-18-91

The following stipulations will apply to this well unless a particular Surface Managing Agency (SMA) or private surface owner has supplied to BLM and the operator a contradictory environmental stipulation. The failure of the operator to comply with these requirements may result in the assessment of liquidated damages or penalties pursuant to 43 CFR 3163.3 or 3163.4. A copy of these stipulations shall be present on the location during construction, drilling and reclamation activity.

An agreement between the operator and fee land owner will take precedence over BLM surface stipulations unless 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface (43 CFR Part 3160), or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance (43 CFR Part 3162.7-4), or 3) no such agreement exists (43 CFR Part 3160), or 4) in the event of well abandonment, minimal Federal restoration requirements will be required (43 CFR Part 3162.7-2).

I. LOCATION AND ACCESS ROAD

A. Well area and lease premises will be maintained in a workmanlike manner with due regard to safety, conservation and appearance. All liquid waste, completion fluids and drilling products associated with oil and gas operations will be contained and then buried in place, or removed and deposited in an approved disposal site. Trash cages will be used for all solid waste and removed from location to an approved solid waste disposal site. No solid waste shall be put in reserve pit before, during or after drilling operations.

B. Piñon-juniper trees and brush will be uprooted from road ROW and well pad locations and distributed along ROWs and stockpiled beside well pads for fuelwood salvage. Care will be taken to keep trees as undamaged as practically possible. Large vegetation such as sagebrush, juniper and piñon will not be incorporated into pit walls. All uprooted vegetation will be scattered on the reclaimed portion of location so it does not detract from the natural appearance of the area.

C. Surface disturbance and vehicular traffic will be limited to the approved location and approved access road.

D. Mud pits and blow pits will be constructed so as not to leak, break or allow discharge of liquids or produced solids. At least half of the capacity of reserve pit must be in cut. The top of the outside wall of reserve pit should be smoothed-off with a minimum of one blade width. The pit should have adequate capacity to maintain 2 feet of free board. Pits are not to be located in natural drainages. Pit walls are to be "walked down" by a crawlertype tractor following construction and prior to usage. Any plastic material used to line pits must be removed to below-ground level before pits are covered. The final grade of reserve pit (after reclamation) shall allow for drainage away from pit area.

E. All unguarded pits (reserve/production/blow pits) containing liquids will be fenced with woven wire. Drilling pits will be fenced on three sides and once the rig leaves location, the fourth side will be fenced. All fencing must be a legal fence in accordance with N.M. State Law. Liquids in pits will be allowed to evaporate, or be properly disposed of, before pits are filled and recontoured. (This office will be notified 24 hours prior to fluid hauling). Under no circumstances will pits be cut and drained. Aeration of pit fluids must be confined within pit area.

F. No gravel or other related minerals from new or existing pits on Federal land will be used in construction of roads, well sites, etc., without prior approval from the Surface Managing Agency.

G. Prior to crossing, using or paralleling any improvement on public land, operator shall contact the owner of the improvement to obtain mitigating measures to prevent damage to improvements.

H. All cut fences are to be tied to braces prior to cutting. The opening will be protected during construction to prevent the escape of livestock. A temporary closure will be installed on all cut fences the same day the fence is cut. A permanent cattleguard will be installed and maintained in any cut fence unless otherwise stipulated in writing. A twelve-foot gate will be installed adjacent to all new cattleguards.

I. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of tanks, or the combined capacity of tanks if a rupture could drain more than one tank.

J. All roads on public land must be maintained in good passable condition.

K. A proposed use of pesticide, herbicide or other possible hazardous chemical on BLM land shall be cleared for use prior to application.

#### CULTURAL RESOURCES (ARCHAEOLOGY)

A. EMERGENCY DISCOVERY IN THE ABSENCE OF MONITORING: This stipulation applies in emergency discovery situations where monitoring for cultural resources was not being performed because the presence of cultural resources could not have been anticipated. If, in its operations, operator discovers any historic or prehistoric ruin, monument, or site, or any object of antiquity subject to the Antiquities Act of 1979, and 43 CFR Part 3, then work will be suspended and discovery promptly reported to BLM Area Manager. BLM will then specify what action is to be taken. BLM will evaluate the discovery, evaluate its significance, and consult with the State Historic Preservation Officer. Minor recordation, stabilization, or data recovery may be performed by BLM. However, more significant mitigation shall be carried out by a qualified, permitted archeologist. It is BLM's responsibility to ensure that such mitigation is carried out in accordance with 36 CFR Part 800.11. Given the timeframes involved in BLM's budgeting process, operators are strongly encouraged to fund such required mitigation. Further damage to significant cultural resources and operations in its vicinity will not be allowed until any required mitigation is successfully completed.

B. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: This stipulation applies to situations where archeological monitoring was taking place because local geologic conditions favored the presence of subsurface archeological sites in the project area. If monitoring confirms the

presence of subsurface sites, all work will cease in the site area. The monitor will immediately report this find to BLM Area Manager. BLM will specify what further steps must be taken to assess the damage to the site and to mitigate any adverse effects to it. Monitoring in these circumstances is considered to be a form of inventory and the operator will be responsible for obtaining at his/her expense a qualified permitted archeologist to complete a damage assessment report and to carry out any mitigation required by the BLM.

C. DAMAGE TO PREVIOUSLY IDENTIFIED SITE: This stipulation applies to situations where operations have damaged a previously identified archeological site that was visible on the surface. If, in its operations, operator damages, or is found to have damaged, any historic or prehistoric ruin/monument/or site/or any object of antiquity subject to the Antiquities Act of 1906, the Archeological Resource Protection Act of 1979, and 32 CFR Part 3, the grantee will prepare and implement a data recovery plan at his/her expense. The grantee will obtain at his/her expense, a qualified permitted archeologist to carry out the specific instruction of BLM.

#### RESEEDING AND ABANDONMENT

A. All surface areas disturbed during drilling activities and not in use for production activities, will be reseeded the first July-September period after reserve pit has been filled in and/or location abandoned. For producing locations, this should occur in the first 12 months after drilling is completed.

B. After top soil has been placed on location, compacted areas of well pad will be plowed or ripped to a depth of 12" before reseeded. The surface should be left rough to help retain rain fall. All seeding is recommended to be done between July 1 and September 15. Seeding will be done with a disc-type drill with two boxes for various seed sizes. The drill rows will be eight to ten inches apart. The seed will be planted between one-half inch deep and three quarter inch deep. The seeder will be followed with a drag, packer or roller to insure uniform coverage of seed, and adequate compaction. Drilling of the seed will be done on the contour where possible. Where slopes are too steep for contour drilling a "cyclone" hand-seeder or similar broadcast seeder will be used, after preparation of an adequate seed-bed. Seed will then be covered to a depth described above by whatever means is practical. Mulching, excelsior netting and/or netting may be required on steep slopes.

C. After seeding, remaining rocks and vegetation (trees, brush, etc.) should be placed on the seeded areas using back hoes or rubber tired front-end loaders.

D. If, in the opinion of the SMA, the seeding is unsuccessful, the lessee/operator may be required to make subsequent seedings.

E. If, upon abandonment of wells, the retention of access road is not considered necessary for the management and multiple use of the natural resources, it will be ripped a minimum of 12" in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a deadend ditch and earthen barricade at the entrance to these ripped areas. (Re seeding of affected areas may be required).

BUREAU OF INDIAN AFFAIRS  
SURFACE MANAGEMENT STIPULATIONS  
TO BE INCLUDED IN APD

RECEIVED  
BLM

01 OCT 23 PM 3:15

COMPANY.....: Chuska Energy  
WELL NO.....: Clay Hill 33-0  
DATE OF INSPECTION: 4-18-91  
PROVIDED BY.....: R Cornett

STIPULATIONS  
 CHECKED  
APPLY

- ✓ 1. ALL ABOVE GROUND STRUCTURES AND EQUIPMENT WILL BE PAINTED WITH THE FOLLOWING NON-GLARE COLOR.

<u>      </u> BROWN	<u>      </u> FED. STANDARD	<u>      </u> 595A - 30318
<u>      </u> GREEN	<u>      </u> FED. STANDARD	<u>      </u> 595A - 34127
<u>      </u> GRAY	<u>      </u> FED. STANDARD	<u>      </u> 595A - 36357
<input checked="" type="checkbox"/> SAND	<u>      </u> FED. STANDARD	<u>      </u> 595A - 30277
<u>      </u> MOBIL BEIGE 12-F-38		

- ✓ 2. COMPACTED AREAS WILL BE PLOWED OR RIPPED TO A DEPTH OF 12 TO 16 INCHES BEFORE RESEEDING. SEED WILL BE DRILLED TO A DEPTH OF .5 TO .75 INCH OR BROADCAST AND FOLLOWED BY A DRAG OR PACKER. IF BROADCAST, THE RECOMMENDED SEED MIX WILL BE APPLIED AT 150% OF THE RECOMMENDED RATE. THE FOLLOWING SEED MIX WILL BE USED.

<u>SPECIES</u>	<u>LBS./ACRE/PLS</u>
CRESTED WHEATGRASS.....	_____
SLENDER WHEATGRASS.....	_____
SMOOTH BROME.....	_____
ORCHARDGRASS.....	_____
YELLOW SWEETCLOVER.....	_____
SAINFOIN.....	_____
WESTERN WHEATGRASS.....	_____
✓ SAND DROPSEED.....	<u>1</u>
ALKALI SACATON.....	_____
✓ INDIAN RICEGRASS.....	<u>3</u>
✓ GALLETA.....	<u>3</u>
NEEDLE-N-THREAD.....	_____
SQUIRREL TAIL.....	_____
SIDE OATS GRAMA.....	_____
✓ FOUR-WING SALTBUSH.....	<u>3</u>
SHADSCALE.....	_____
WINTER-FAT.....	_____

(PURITY X GERMINATION = PLS)

3. ✓ THE TOP 6 INCHES OF SOIL WILL BE SALVAGED, STOCKPILED, AND STABILIZED ON THE \_\_\_\_\_ SIDE/CORNER OF THE WELL PAD AND/OR IN THE "L" CORNER OF THE WELL PAD AND RESERVE PIT FOR USE IN REVEGETATING THE SITE. *Where available*
4. NA UPON ABANDONMENT, THE WELL PAD WILL BE FENCED WITH A STANDARD FIVE-STRAND BARB WIRE FENCE, OR EQUIVALENT AND WILL HAVE NO GATES. THE FENCE WILL BE MAINTAINED FOR TWO YEARS TO ALLOW FOR SEEDING ESTABLISHMENT AND WILL THEN BE REMOVED.

5. NA ACCESS ROADS NOT NEEDED FOR THROUGH TRAFFIC WILL BE BARRICADED AND RESEEDED IN ACCORDANCE WITH #2. WATER BARS WILL BE CONSTRUCTED TO THE FOLLOWING SPECIFICATIONS.

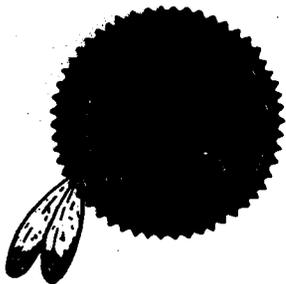
<u>% SLOPE</u>	<u>SLOPE DISTANCE</u>
1 - 5%	200 FEET
5% - 15%	100 FEET
GREATER THAN 15%	50 FEET

6.  AN EARTHEN BERM (24 INCHES/~~FEET~~ HIGH) WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE WELL PAD, EXCEPT ON THE HIGH/CUT SIDE OF THE WELL PAD.
7.  THE RESERVE PIT WILL BE LINED TO PREVENT SEEPAGE FROM OCCURRING.
8. NA THE RESERVE PIT WILL BE CONSTRUCTED LONG AND NARROW (     X      FEET) SO THAT THE PIT CAN BE ACCOMODATED AND ANY POTENTIAL HAZARDS REDUCED OR ELIMINATED.
9. NA IMMEDIATELY FOLLOWING DRILLING, THE FLUIDS OF THE RESERVE PIT WILL BE PUMPED AND DISPOSED OF PER BLM INSTRUCTIONS. A SUNDRY NOTICE FOR THIS ACTION IS REQUIRED BY BLM.
10. NA DIVERSION DITCH (ES) WILL BE CONSTRUCTED ON THE      SIDE OF THE WELL PAD ABOVE/BELOW (CIRCLE ONE) THE CUT SLOPE DIVERTING ANY RUNOFF TO THE     .
11.  THE WASH (~~ES~~) WILL BE DIVERTED AROUND THE N SIDE OF THE WELL PAD.
12. NA CULVERT(S) OF SUFFICIENT SIZE WILL BE PLACED ON ALL DRAINAGE CROSSINGS OF THE ACCESS ROAD DETERMINED NECESSARY DURING THE ON-SITE INSPECTION.
- 
13. NA NO PRODUCTION FLOWLINES NOR GAS SALES LINES WILL BE CONSTRUCTED UNTIL THEIR RIGHT-OF-WAYS/EASEMENTS ARE INSPECTED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY.
14. NA ANY FLOWLINE(S) (SURFACE/SUBSURFACE) WILL BE CONSTRUCTED PARALLELING NEW AND EXISTING ROAD RIGHT-OF-WAYS, EXCEPT     .
- 
15. NA THE TOP      INCHES OF SOIL OF ANY SUBSURFACE FLOWLINE CONSTRUCTED WILL BE ROLLED/SCRAPED TO ONE SIDE OF THE BLADED LINE AND WILL BE DISTURBED AS LITTLE AS POSSIBLE DURING THE ACTUAL CONSTRUCTION. IMMEDIATELY FOLLOWING INSTALLATION, THE ROLL OF TOPSOIL SALVAGED WILL BE REDISTRIBUTED OVER THE BLADED LINE AND WILL BE RESEEDED IN ACCORDANCE WITH ITEM #2. IN ADDITION TO THIS, ALL AREAS DISTURBED (INCLUDING THE REPLACED TOPSOIL) WILL BE IMPRINTED WITH A LAND IMPRINTER OR SHEEP'S FOOT TYPE ROLLER TO CREATE A PATTERN OF SMALL DEPRESSIONS TO ENHANCE VEGETATIVE REGROWTH. ALL DRAINAGES CROSSED BY THESE LINE(S) WILL BE RESTORED, AS NEAR AS POSSIBLE, TO THEIR ORIGINAL FORM. WATER BARS WILL BE CONSTRUCTED IN ACCORDANCE WITH ITEM #5.

16. NA FENCE (S) CROSSED BY THE ACCESS ROAD WILL BE BRACED AND TIED OFF BEFORE CUTTING OF THE WIRES TO PREVENT SLACKENING OF THE FENCE LINES. BOTH A GATE AND CATTLEGUARD WHICH MUST BE BIA APPROVED WILL BE INSTALLED.
17.  STORAGE TANK(S) INSTALLED ON THE LOCATION WILL BE SURROUNDED BY A DIKE OF SUFFICIENT CAPACITY TO CONTAIN 1-1/2 TIMES THE STORAGE CAPACITY OF THE TANK(S).
18.  THE STIPULATIONS SET FORTH IN THE ARCHEOLOGICAL CLEARANCE LETTER DATED 08/23/91 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-91-140
19. NA UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO PLATE THE SURFACE OF THE WELL PAD AND/OR THE ACCESS ROAD WILL BE CLEANED UP AND DISPOSED OF PRIOR TO RESEEDING.
20. NA THE CONSTRUCTION WORK CONDUCTED AT THIS LOCATION WILL NEED TO BE INSPECTED BEFORE THE DRILL RIG IS MOVED ON THE LOCATION.

ALL CHANGES/DEVIATIONS MADE FROM THE APPROVED APD MUST BE CLEARED AND APPROVED BY THE SURFACE MANAGEMENT AGENCY. THE SURFACE MANAGEMENT AGENCY CAN BE CONTACTED AT (505) 368-4427.

OTHER:



# 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

RECEIVED

SEP 10 1993

DIVISION OF  
OIL, GAS & MINING

Attn: Mr. R.J. Firth  
Associate Director

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

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

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

3. LEASE DESIGNATION AND SERIAL NO.

NOG 8720-1116

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo Tribal

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Clay Hill

9. WELL NO.

330

10. FIELD AND POOL OR WILDCAT

Wildcat

11. SEC. T. A. N. OR BLOCK AND SURVEY OR AREA

S33-T41S-R25E

1. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other \_\_\_\_\_

1. TYPE OF COMPLETION: NEW WELL  WORK OVER  REPER- EN  PLUG BACK  DIFF. REVE.  Other \_\_\_\_\_

2. NAME OF OPERATOR  
Chuska Energy Company

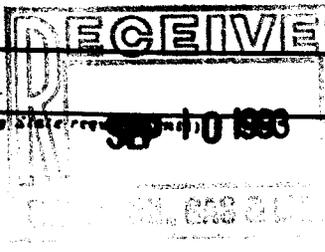
1. ADDRESS OF OPERATOR  
3315 Bloomfield Hwy. Farmington, NM 87401

4. LOCATION OF WELL (Report location clearly and in accordance with any applicable regulations)

At surface 370' FSL, 1750 FEL

At top prod. interval reported below

At total depth SAME



14. API NO. 43-037-317231 DATE ISSUED \_\_\_\_\_ 12. COUNTY San Juan 12. STATE Utah

11. DATE SPUNDED 11-8-91 16. DATE T.D. REACHED 11-20-91 17. DATE COMPL. (Ready to prod.) 11-23-91 (Plug & Aband.) 18. ELEVATIONS (OP. SUR. ST. OR ETC.) 4533' GR 4546' KB 19. ELEV. CASINGHEAD 4533' GR

20. TOTAL SEPT. HD & TVD 5465' 21. PLUG BACK T.D. HD & TVD N/A 22. IF MULTIPLE COMPL. HOW MANY 1 23. INTERVALS DRILLED BY \_\_\_\_\_ 24. ROTARY TOOLS \_\_\_\_\_ 25. CASING TOOLS \_\_\_\_\_

26. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)  
Desert Creek: 5267' - 5344'

27. WAS DIRECTIONAL SUSPECT MADE Yes

28. TYPE ELECTRIC AND OTHER LOGS LOG  
DLL/MSFL/GR/CAL, CNL/FDC/LDT/GR/CAL, BHC/CAL/GR, GBI/CCI/GR

29. WAS WELL CORED YES  NO  (See remarks) DRILL STEM TEST YES  NO  (See remarks) YES

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	MOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8" K-55	24.00	507'	12 1/4"	373 Sx Class 'G'	
5 1/2" K-55	15.50	5462'	7 7/8"	ST1: 406 sx 65/36 Poz + 1100 sx Class 'G'	
				ST2: 1106 sx 65/35 Poz + 1100 sx Class 'G'	

31. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	BACKS CEMENT	SCREEN (MD)	32. TUBING RECORD
					SIZE DEPTH SET (MD) PACKER SET (MD)

33. PREPARATION RECORD (Interval, size and number)

5267' - 5281', 14', .46" @ 4 SPF/56 Shots  
5292' - 5302', 10', .46" @ 4 SBF/40 Shots  
5333' - 5344', 11', .46" @ 4 SPF/44 Shots

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
5267' - 5281'	See Backside
5292' - 5302'	
5333' - 5344'	

35. PRODUCTION

DATE FIRST PRODUCTION NONE PRODUCTION METHOD Flowing, gas lift, pumping—size and type of pump) WELL STATUS (Producing or abandoned) SOW DTS 2/1/94

36. TEST RESULTS

DATE OF TEST	HOURS TESTED	CHOOSE SIZE	PROD. FOR TEST PERIOD	OIL—GAL	GAS—MCF.	WATER—GAL	SOIL RATIO

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

38. LIST OF ATTACHMENTS

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

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

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.	Name	Meas. Depth	Top
CORE #1	5278'	5338'	100% Recovered. Desert Creek	Hermosa	4252'	4252'
CORE #2	5338'	5398'	100% Recovered. Desert Creek	Upper Ismay	5076'	5076'
CORE #3	5398'	5430'	100% Recovered. Desert Creek/ Chimney Rock/ Shale	Hoven Weep Shale	5182'	5182'
				Lower Ismay	5188'	5188'
				Gothic Shale	5238'	5238'
				Desert Creek	5252'	5252'
				Chimney Rock Shale	5412'	5412'
				AKAH	5424'	5424'
5267' - 5281'		75 Gal 7 1/2% HCL, 1400 Gal 28% HCL	+ 7,500 Gal 28% HCL,			
5292' - 5302'		75 Gal 7 1/2% HCL, 1000 Gal 28% HCL	600 Gal Gelled Brine W/			
			2#/ Gal; NaCl <sub>2</sub> Diverter.			
5333' - 5344'		75 Gal; 7 1/2% HCL, 1100 Gal 28% HCL				
		3500 Gal 28% Gelled Acid W/300 Gal Gelled Brine.				

ACIDIZING INJECTED VOLUMES:

38. GEOLOGIC MARKERS

Name	Meas. Depth	Top
Hermosa	4252'	4252'
Upper Ismay	5076'	5076'
Hoven Weep Shale	5182'	5182'
Lower Ismay	5188'	5188'
Gothic Shale	5238'	5238'
Desert Creek	5252'	5252'
Chimney Rock Shale	5412'	5412'
AKAH	5424'	5424'

## MONTHLY OIL AND GAS PRODUCTION REPORT

OPERATOR NAME AND ADDRESS:

LARRY G SESSIONS  
 CHUSKA ENERGY COMPANY  
 3315 BLOOMFIELD HWY  
 FARMINGTON NM 87401

UTAH ACCOUNT NUMBER: N9290

REPORT PERIOD (MONTH/YEAR): 12 / 93

AMENDED REPORT  (Highlight Changes)

Well Name			Producing Zone	Well Status	Days Oper	Production Volumes		
API Number	Entity	Location				OIL(BBL)	GAS(MCF)	WATER(BBL)
JACK 31G			DSCR	NO RECORD / NO FILE	DTS	done / DTS		
✓4303731709	11497	41S 24E 31						
MULE 31M			DSCR					
✓4303731710	11498	41S 24E 31						
HERON 35H-A (RIG SKID)			PRDX					
✓4303731711	11499	41S 25E 35						
LIZARD 4m			DSCR					
✓4303731619	11555	41S 23E 4						
HILLSIDE 6C-1			IS-DC	DRL (Cont.)				
4303731721	11570	42S 25E 6						
CLAY HILL 330			DSCR					
✓4303731723	11612	41S 25E 33						
<b>TOTALS</b>								

COMMENTS: \_\_\_\_\_

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

Date: \_\_\_\_\_

Name and Signature: \_\_\_\_\_

Telephone Number: \_\_\_\_\_



# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

We are pleased to announce that effective January 18, 1994, Chuska Energy Company, has changed its name to Harken Southwest Corporation. This is in line with the February 1993 merger with Harken Exploration Company.

Harken Southwest Corporation is still located at 3315 Bloomfield Highway, Farmington, New Mexico, 87401. You may still contact us at (505) 326-5525.

Please reflect this name change as necessary on all future correspondence.

Thank you for your assistance in this matter and we look forward to working with you as Harken Southwest Corporation.

Sincerely,

Barry A. Wieland  
Operations Manager

RECEIVED

FEB 07 1994

DIVISION OF  
OIL, GAS & MINING

Division of Oil, Gas and Mining  
**OPERATOR CHANGE WORKSHEET**

Routing:

1	<del>VLC</del> 7-SJ
2	<del>DTF</del> 8-FILE
3	VLC ✓
4	RIF ✓
5	<del>PL</del>
6	PL ✓

Attach all documentation received by the division regarding this change.  
 Initial each listed item when completed. Write N/A if item is not applicable.

- Change of Operator (well sold)                       Designation of Agent  
 Designation of Operator                               Operator Name Change Only

The operator of the well(s) listed below has changed (EFFECTIVE DATE: 1-18-94)

TO (new operator) <u>HARKEN SOUTHWEST CORPORATION</u> FROM (former operator) <u>CHUSKA ENERGY COMPANY</u>
(address) <u>3315 BLOOMFIELD HWY</u> (address) <u>3315 BLOOMFIELD HWY</u>
<u>FARMINGTON NM 87401</u> <u>FARMINGTON NM 87401</u>
phone ( <u>505</u> ) <u>326-5525</u> phone ( <u>505</u> ) <u>326-5525</u>
account no. <u>N 9290</u> account no. <u>N9290</u>

Well(s) (attach additional page if needed):

Name: <b>**SEE ATTACHED**</b>	API: <u>037-31723</u>	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____
Name: _____	API: _____	Entity: _____	Sec _____	Twp _____	Rng _____	Lease Type: _____

**OPERATOR CHANGE DOCUMENTATION**

- See 1. (Rule R615-8-10) Sundry or other legal documentation has been received from former operator (Attach to this form). *(Rec'd 2-7-94)*
- N/A 2. (Rule R615-8-10) Sundry or other legal documentation has been received from new operator (Attach to this form).
- See 3. The Department of Commerce has been contacted if the new operator above is not currently operating any wells in Utah. Is company registered with the state? (yes)/no) \_\_\_\_\_. If yes, show company file number: #096704.
- See 4. (For Indian and Federal Wells ONLY) The BLM has been contacted regarding this change (attach Telephone Documentation Form to this report). Make note of BLM status in comments section of this form. Management review of Federal and Indian well operator changes should take place prior to completion of steps 5 through 9 below.
- See 5. Changes have been entered in the Oil and Gas Information System (Wang/IBM) for each well listed above. *(2-10-94)*
- See 6. Cardex file has been updated for each well listed above. *(2-10-94)*
- See 7. Well file labels have been updated for each well listed above. *(2-10-94)*
- See 8. Changes have been included on the monthly "Operator, Address, and Account Changes" memo for distribution to State Lands and the Tax Commission.
- See 9. A folder has been set up for the Operator Change file, and a copy of this page has been placed there for reference during routing and processing of the original documents.

**ENTITY REVIEW**

- Yes 1. (Rule R615-8-7) Entity assignments have been reviewed for all wells listed above. Were entity changes made? (yes/no) no (If entity assignments were changed, attach copies of Form 6, Entity Action Form).
- N/A 2. State Lands and the Tax Commission have been notified through normal procedures of entity changes.

**BOND VERIFICATION (Fee wells only)**

- N/A Yes 1. (Rule R615-3-1) The new operator of any fee lease well listed above has furnished a proper bond.
- 2. A copy of this form has been placed in the new and former operators' bond files.
- 3. The former operator has requested a release of liability from their bond (yes/no)     . Today's date      19    . If yes, division response was made by letter dated      19    .

**LEASE INTEREST OWNER NOTIFICATION RESPONSIBILITY**

- N/A 1. (Rule R615-2-10) The former operator/lessee of any fee lease well listed above has been notified by letter dated      19    , of their responsibility to notify any person with an interest in such lease of the change of operator. Documentation of such notification has been requested.   
*BTS 3/2/94*
- N/A 2. Copies of documents have been sent to State Lands for changes involving State leases.

**FILMING**

- 1. All attachments to this form have been microfilmed. Date: March 7 1994.

**FILING**

- Yes 1. Copies of all attachments to this form have been filed in each well file.
- Yes 2. The original of this form and the original attachments have been filed in the Operator Change file.

**COMMENTS**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

From: DON STALEY (DSTALEY)  
To: LCORDOVA  
Date: Friday, February 11, 1994 3:25 pm  
Subject: ENTITY - CLAY HILL 33-0

LISHA,

PER OUR CONVERSATION EARLIER TODAY, THE ABOVE CHUSKA WELL WILL NEED AN ENTITY NUMBER ASSIGNED TO IT (API 43-037-31723). IT HAD BEEN PLACED IN 3270 AS 'PA' BASED ON A 3/17/93 PI REPORT THAT SHOWED THE STATUS AS DxA (DRY AND ABANDONED). THERE IS NOTHING ON CHUSKA'S WCR TO INDICATE AN ABANDONMENT, SO I CHANGED THE 3270 STATUS TO 'SOW' INSTEAD OF 'PA.' ONCE IT SHOWS UP ON THE TAD, HOPEFULLY CHUSKA/HARKEN WILL TELL US WHAT THE REAL STATUS IS! THANKS!

DON



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-8707-1216

6. If Indian, Allottee or Tribe Name

NAVAJO

7. If Unit or CA, Agreement Designation

8. Well Name and No.

CLAY HILL 33-0

9. API Well No.

43-037-31723

10. Field and Pool, or Exploratory Area

11. County or Parish, State

SAN JUAN CO, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

HARKEN SOUTHWEST CORPORATION

3. Address and Telephone No.

P. O. BOX 612007, DALLAS, TX 75261-2007 214/753-6900

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

SW/SE SEC 33-41S-25E  
370' FSL & 1750' FEL

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

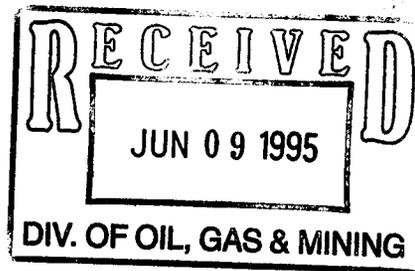
- Abandonment
- Recompletion
- Plugging Back
- Casing Repair
- Altering Casing
- Other \_\_\_\_\_
- Change of Plans
- New Construction
- Non-Routine Fracturing
- Water Shut-Off
- Conversion to Injection
- Dispose Water

(Note: Report results of multiple completion 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.)\*

Harken Southwest anticipates plugging and abandonment of the subject wellbore by year-end.

CC: State of Utah  
Navajo Nation - Minerals Dept  
BIA - Gallup, NM



I hereby certify that the foregoing is true and correct

Signed

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

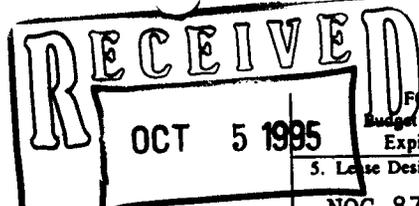
Title PRODUCTION ADMINISTRATOR

Date 6/08/95

Title \_\_\_\_\_

Date \_\_\_\_\_

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT



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

5. Lease Designation and Serial No.

NOG 8707-1216

6. Offtee or Tribe Name

**SUNDRY NOTICES AND REPORTS ON WELLS**

DIV. OF OIL, GAS & MINING

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 type="checkbox"/> Other	7. If Unit or CA, Agreement Designation  Navajo
2. Name of Operator Harken Southwest Corporation	8. Well Name and No. Clay Hill 33-0
3. Address and Telephone No. P.O. Box 612007 Dallas, Texas 75261 (214) 753-6900	9. API Well No. 43-037-31723
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) SW/SE Sec 33-41S-25E 370' FSL & 1750' FEL	10. Field and Pool, or Exploratory Area
	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.)\*

Attached please find the following information regarding the plugging and abandonment on the subject wellbore:

- Current Well Information
- Schematic of Current Wellbore Configuration
- Abandonment Procedures
- Schematic of Proposed P&A Configuration

Harken will permanently abandon the wellbore during the 1995 P&A program, scheduled to be completed prior to 12/31/95. Location reseeded will take place during 1996 as stipulated on the original APD.

Should any questions arise, please contact Mr. Richard Cottle in the Farmington, NM office at telephone (505) 327-5531 or the undersigned at the address/telephone number above.

CC: State of Utah  
Navajo Nation - Minerals Dept  
Bureau of Indian Affairs - Gallup, NM

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

Signature

*R. Montgomery*

Title Production Administrator

Date 10-3-95

(This space for Federal or State Office use)

Approved by \_\_\_\_\_  
Conditions of approval, if any:

Title

**Accepted by the  
Utah Division of  
Oil, Gas and Mining**

Date

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.

**FOR RECORD ONLY**

\*See Instruction on Reverse Side

**PLUG and ABANDONMENT**  
**Clay Hill 33-O**  
 370' FSL & 1,750' FEL, Sec 33 - T41S - R25E  
 San Juan County, Utah  
 September 26, 1995

Present Status: Shut-In Uneconomic Oil Well

Elevation: 4533' GL Reference Elevation: 4546' KB

Total Depth: 5465' MD PBTD: 5402' KB

Casing Program:

8-5/8", 24#, Surface csg @ 507' to surface w/375 sacks cmt  
 5-1/2", 15.5#, Production csg @ 5462' w/1,766 sacks cmt in two stages

Production Equipment: 166 joints of 2-7/8" tubing (5244'), PPI pkr set @ 5246'  
 BP set @ 5316' in 5-1/2" csg

**Casing and Tubing Detail**

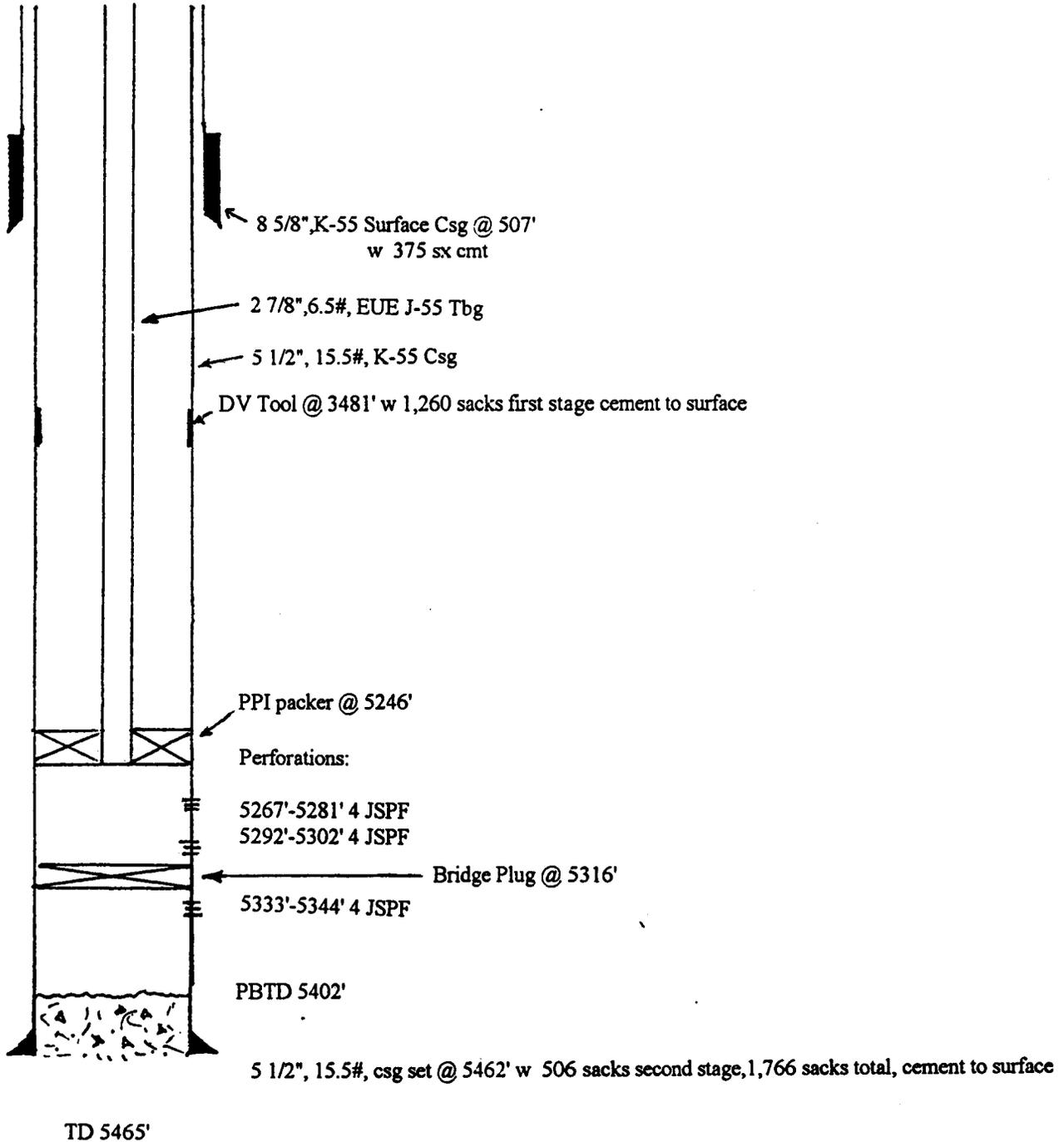
Depth	Size (in)	Wt. #/ft	Grade Thread	Burst (psi)	Collapse (psi)	Yield M#	Drift (in)	Capacity (bbls/ft)
Surf 5462'	5 1/2	15.5	K-55 STC	4810	4040	222	4.825	0.0238
Surf 5444'	2 7/8"	6.5	J-55 EUE	7260	7680	99.7	2.347	0.00579

# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

## Clay Hill 33-O

### Present wellbore Configuration



**Clay Hill 33-O Plug and Abandonment**  
370' FSL & 1,750' FEL, Sec 33 - T41S - R25E  
San Juan County, Utah  
9/26/95 ROC

**P & A Procedures**

1. MIRU, Blow Down, hold safety meeting, ND wellhead, NU BOPs.
2. Attempt to unseat PPI packer and POOH. If packer unseats proceed to Step 3. If does not unseat pump cement through PPI packer displace to top of packer release pressure and monitor for flowback. If no flowback go in hole w/chemical cutter and cut tbg off +/- 20' above packer. POOH w/tbg. Go to step 4.
3. PU cement retainer and RIH on tbg to 5200'. Set retainer at 5200', mix up and circulate Plug #1, 25 sacks (5.0 bbl) of Class "B" cement to the end of the tubing, sting into cmt retainer. Pump cement thru retainer and squeeze Desert Creek perforations @ 5267-5302. Pull off retainer and circulate 68 Bbls of 9.0 lb/gal mud from 5200' to 2350'. POH w/tbg and setting tool.
4. RIH w/open ended tbg & spot cement Plug #2 with 15 sacks ( 3.0 bbl) of Class "B" cement from 2350-2225' (125'). *NOTE:* During original completion a DV tool was set @ 3481' w/1,260 sx of cement to surface to protect aquifers.
5. Circulate 40 bbls of 9.0 lb/gal mud from 2225' to 557'. PU set balance plug, Plug #3 with 12 sacks (2.4 bbl) of Class "B" cement from 557-457' (100').
6. Circulate 10 bbls of 9.0 lb/gal mud from 457-50' Mix up and circulate, Plug #4, 6 sacks of Class "B" cement from 50' to surface while POOH.
7. ND BOPs, cut off wellhead flange and csg 4' below ground level and install P&A surface marker.
10. Restore location.

**TOTAL CEMENT:**

Plug #1	25 sacks	(50% excess)
Plug #2	15 sacks	
Plug #3	12 sacks	
Plug #4	6 sacks	to surface

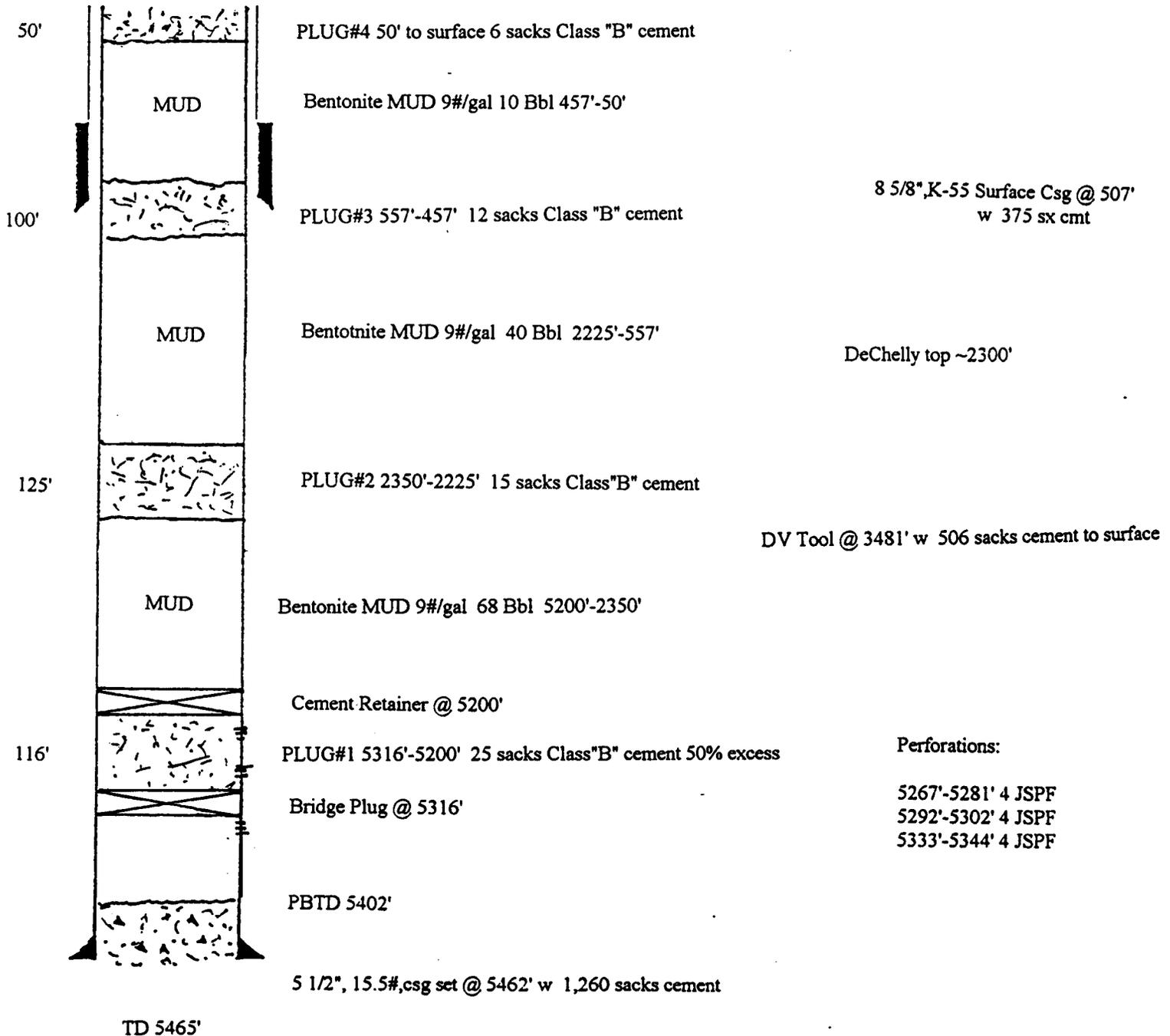
-----  
**TOTAL 58 sacks**

# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

## Clay Hill 33-O

### P&A Wellbore Configuration



FEB - 5 1996

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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

5. Lease Designation and Serial No.  
NOG 8707-1216

6. If Indian, Allottee or Tribe Name  
Navajo

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

8. Well Name and No.  
Clay Hill 33-0

9. API Well No.  
43-037-31723

10. Field and Pool, or Exploratory Area

11. County or Parish, State  
San Juan Co., 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

Oil Well  Gas Well  Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Box 612007 Dallas, Texas 75261-2007 (214) 753-6900

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

SW/SE Section 33 - 41S - 25E  
370' FSL & 1750' FEL

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 Surface Restoration  
 Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 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.)\*

The subject well was plugged and abandoned on December 12, 1995. Following well plugging, surface rehabilitation operations and location reseeding operations were concluded on January 29, 1996. Verbal reseeding notification was given to Don Ellsworth, BLM, on December 1, 1995. Required surface restoration stipulations are complete.

CC: State of Utah  
Navajo Nation  
BIA - Gallup

Attachments: 3

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

Signed [Signature] Title Operations Manager Date February 1, 1996

(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

Farmington District Office  
1235 La Plata Highway  
Farmington, New Mexico 87401

cc: R. Cottle

IN REPLY REFER TO:  
3162.3-4 (07600)  
NOG-8707-1146/NOG-8707-1240/NOG-8708-1033  
NOG-8707-1216/NOG-8707-1169 (WC)

001 1 0 1095

Harken Southwest Corp.  
Attn: R. Montgomery  
P.O. Box 612007  
Dallas, TX 75261

Dear Ms. Montgomery:

The following surface rehabilitation stipulations must be complied with as applicable, before wells in San Juan County, nos.

Well No. & Name	Lease No.	Footages	S	T	R	
1. 1 Beclabito 3	NOG-8707-1146	1695' FNL/1980 FEL	13	30N	21W	NM
2. 4M Lizard	NOG-8707-1240	1100' FSL/ 160' FWL	4	41S	23E	UT
3. 2 Navajo Tribal 42	NOG-8308-1033	2140' FNL/ 590' FEL	2	42S	24E	UT
4. <del>33-0 Clay Hill</del>	<del>NOG-8707-1216</del>	<del>370' FSL/1750' FEL</del>	<del>33</del>	<del>41S</del>	<del>25E</del>	<del>UT</del>
5. 2 Tower 1 I	NOG-8707-1169	1940' FSL/ 689' FEL	1	40S	25E	UT

can be approved for final abandonment (see 43 CFR 3162.3-4).

1. A permanent monument must be cemented in the wellbore. It must be labeled with the operators name, well name and number, legal location and lease number (see CFR 3162.6).
2. All fences, production equipment, purchaser's equipment, concrete slabs, deadman (anchors), flowlines, risers, debris and trash must be removed from the location.
3. Production pits will be closed according to the Unlined Surface Impoundment Closure Guidelines, as approved in the Environmental Assessment of December 1993. Any oil stained soils may be remediated on-site according to these guidelines or disposed of in an approved disposal facility.
4. Pads must be leveled, dressed up by a maintainer, ripped and disked. The edge of the pads will be shaped to conform to the natural terrain.
5. Access roads must be leveled, waterbarred, ripped, disked and blocked off with earthen berms at the junction with the main road and at the entrance to the well pad. Waterbars should be spaced as shown below:

<i>% Slopes</i>	<i>Spacing Interval</i>
Less than 2%	200'
2 to 5%	150'
6 to 9 %	100'
10 to 15%	50'
Greater than 15%	30"

All water bars should divert water to the downhill side of the road.

6. All disturbed areas will be seeded between July 1 and September 15 with the prescribed seed mix (reseeding may be required).
7. Notify Surfacing Managing Agency (SMA) seven (7) days prior to seeding so they may be present for that option.

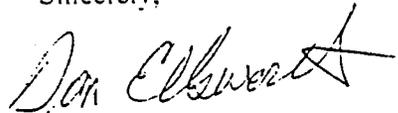
Other SMA's may vary slightly in their restoration requirements. It is your responsibility, as the operator, to obtain surface restoration requirements from other SMA's. We need to be provided with a copy of these requirements. Any problems concerning stipulations received from other SMA's should be brought to us.

On private land, we should be provided with a letter from the fee owner stating that the surface restoration is satisfactory.

If the surface restoration has not yet been completed, notify us by Sundry Notice upon completion. We will schedule an inspection to check the well site after we receive notice from you that the vegetation has become established.

If you have any questions, please contact the Environmental Compliance Staff at (505) 599-8900.

Sincerely,



Don W. Ellsworth  
Senior Technical Specialist  
Environmental Compliance

*work is complete*

*R. Paul O. Lewis 1-29-95*

SOUTHWEST SEED INC  
 13260 C.R. 27  
 DOLORES, CO 81323  
 (303) 565-8722

NEWBY & H. MENDES  
 SEED CONSULTING SERVICE

MEMBER OF THE NATIONAL ASSOCIATION OF SEED PRODUCERS

ITEM	SPECIES / VARIETY	LOT #	ORIG	PURE	INERT	DROP	WEED	R/M	NOX	GERM	PLS %	DATE	PLS lbs	BULK #	% OF MIX	
1	GRASS W: ALKALI SACATON VNS	05003	KS	93.14	5.94	0.18	0.74	NF	NF	82.00	76.37	11/22/95	2.00		2.62	12.50
2	WHEATGR: WESTERN VNS	04012	WA	86.77	11.02	0.02	0.13	NF	NF	30.00	79.09	03/31/95	8.00		10.24	50.00
3	SHRUB: FOUR WING SALTBUSS NM	04335	NM	95.80	4.16	0.04	0.00	NF	NF	63.00	60.35	04/14/95	6.00		9.94	37.50
													\$	22.84	100.00	

m05039 BWR-CLAY HILL -330 MIX

*alkali sacaton packaged seperately inside bags*

HE DATE IS 12/18/95  
 HE TIME IS 10:45:07

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FEB - 5 1996

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

**SUNDRY NOTICES AND REPORTS ON WELLS**

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5. Lease Designation and Serial No.

NOG-8707-1216

6. If Indian, Allottee or Tribe Name

Navajo

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Clay Hill 33-0

9. API Well No.

43-037-31723

10. Field and Pool, or Exploratory Area

11. County or Parish, State

San Juan County, Utah

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

Harken Southwest Corporation

3. Address and Telephone No.

P.O. Drawer 612007 Dallas, Texas 75261-2007 (214) 753-6900

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

SW/SE Sec. 33-41S-25E  
370' FSL & 1750' FEL

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

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TYPE OF ACTION

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 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other

- Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
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 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.)\*

The subject well was plugged & abandoned on December 12, 1995. BLM representative Ron Snow was on location & witnessed all plugs. Abandonment operations were as follows:  
RU, unstung from retainer, press tested csg to 600 psig, held 5 min. - ok. Stung to retainer, pumped 57 sxs. Class "B" to squeeze Ismay perfs. Cir 10 sxs on top of retainer @ 5092' KB. Plug #1 5302'-5000' KB (302') - 17 sxs. Top of Ismay @ 5026' KB. Balanced Plug #2 4317'-4167' KB (150') - 17 sxs. Balanced Plug #3 2364'-2214' KB (150') - 17 sxs. Top of De Chelly @ 2300' KB. Plug #4 1310'-1160' KB (150') - 17 sxs. Top of Chinle @ 1252' KB. Balanced Plug #5 566'-416' KB (150') - 17 sxs. Surface csg shoe @ 507' KB cir cmt to surface. Plug #6 50' KB-surface-10 sxs. Cut off csg below surface and weld on regulation subsurface P&A marker.  
Clay Hill 33-0 permanently abandoned 12/12/95

cc: State of Utah  
Navajo Nation  
BIA - Gallup

I hereby certify that the foregoing is true and correct

Signed

*R. Autromery*

Title

Production Administrator

Date 02/01/96

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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