

FEB 1992

*John Lundberg*

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved  
Budget Bureau No. 1004-0136  
Expires: December 31, 1991

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK  
 DRILL  DEEPEN

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

2. NAME OF OPERATOR  
 Chuska Energy Company

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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface 2390' FSL 2150' FWL  
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 6.0 miles from Montezuma Creek, Utah

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

16. NO. OF ACRES IN LEASE  
 6919'

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 Rotary

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 4756' GR/4769' KB

5. LEASE DESIGNATION AND SERIAL NO.  
 BIA 14-20-603-373 248

6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 Navajo Tribal

7. UNIT AGREEMENT NAME  
 N/A

8. FARM OR LEASE NAME WELL NO.  
 D.C. Anticline 35-K

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 35-41S-23E

12. COUNTY OR PARISH  
 San Juan

13. STATE  
 UT

CONFIDENTIAL

22. APPROX. DATE WORK WILL START\*  
 February '92

23. PROPOSED PROGRAM  
 CEMENTING PROGRAM DRILLING OPERATIONS  
 SUBJECT TO COMPLIANCE WITH ATTACHED QUANTITY OF CEMENT

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	K-55, 8 5/8"	24ppf	500'	371' sx 'G' & 2% CaCl2
7 7/8"	K-55, 5 1/2"	18.5 ppf	6919'	320 sx 'G', 65:35 Poz & 6% Gel

REFER TO ATTACHED 10-POINT DRILLING PLAN ETC.

**"Approval of this action does not warrant that the applicant holds legal or equitable rights or title to this lease."**

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

24. SIGNED *John Lundberg* TITLE *Lundberg* APPROVED AS AMENDED

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE FEB 03 1992

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

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

OPERATOR *John Lundberg* AREA MANAGER *John Lundberg*

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

\*See Instructions On Reverse Side

RECEIVED  
FEB 17 PM 3:33  
BUREAU OF LAND MANAGEMENT

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

1b. 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, N.M. 87401 505-326-5525

4. Location of Well (Report location clearly and in accordance with any State requirements.):  
At surface: 2390' FSL 2150' FWL  
At proposed prod. zone: Same *NE SW*

5. Lease Designation and Serial No.: BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name: NAVAJO TRIBAL

7. Unit Agreement Name: N/A

8. Farm or Lease Name:

9. Well No.: D.C. Anticline 35K

10. Field and Pool, or Wildcat: Wildcat

11. 00, Sec., T., R., N., or S14, and Survey or Area: Sec. 35, T41S, R23E

12. County or Parish: San Juan | 13. State: New Mexico

14. Distance in miles and direction from nearest town or post office: 6.0 miles from Montezuma Creek, Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drg. line, if any): .5 miles

16. No. of acres in lease: 6919'

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.: .5 miles

19. Proposed depth: 6919'

20. Rotary or cable tools: Rotary

21. Elevations (Show whether DF, RT, GR, etc.): 4756' GR/4769' KB

22. Approx. date work will start: February, 1992

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	K-55, 8 5/8"	24 ppf	500'	371 sx 'G' & 2% CaCl2
7 7/8"	K-55, 5 1/2"	18.5 ppf	6919'	320 sx 'G', 65:35 Poz. & 6% Gel

Refer to Attached 10 Point Drilling Plan, etc.

**CONFIDENTIAL**

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

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

Signed: *Barry A. Wieland* Title: OPERATIONS MANAGER Date: 5-26-93

(This space for Federal or State office use)

APP NO. 43-037-31726

Approval Date \_\_\_\_\_

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

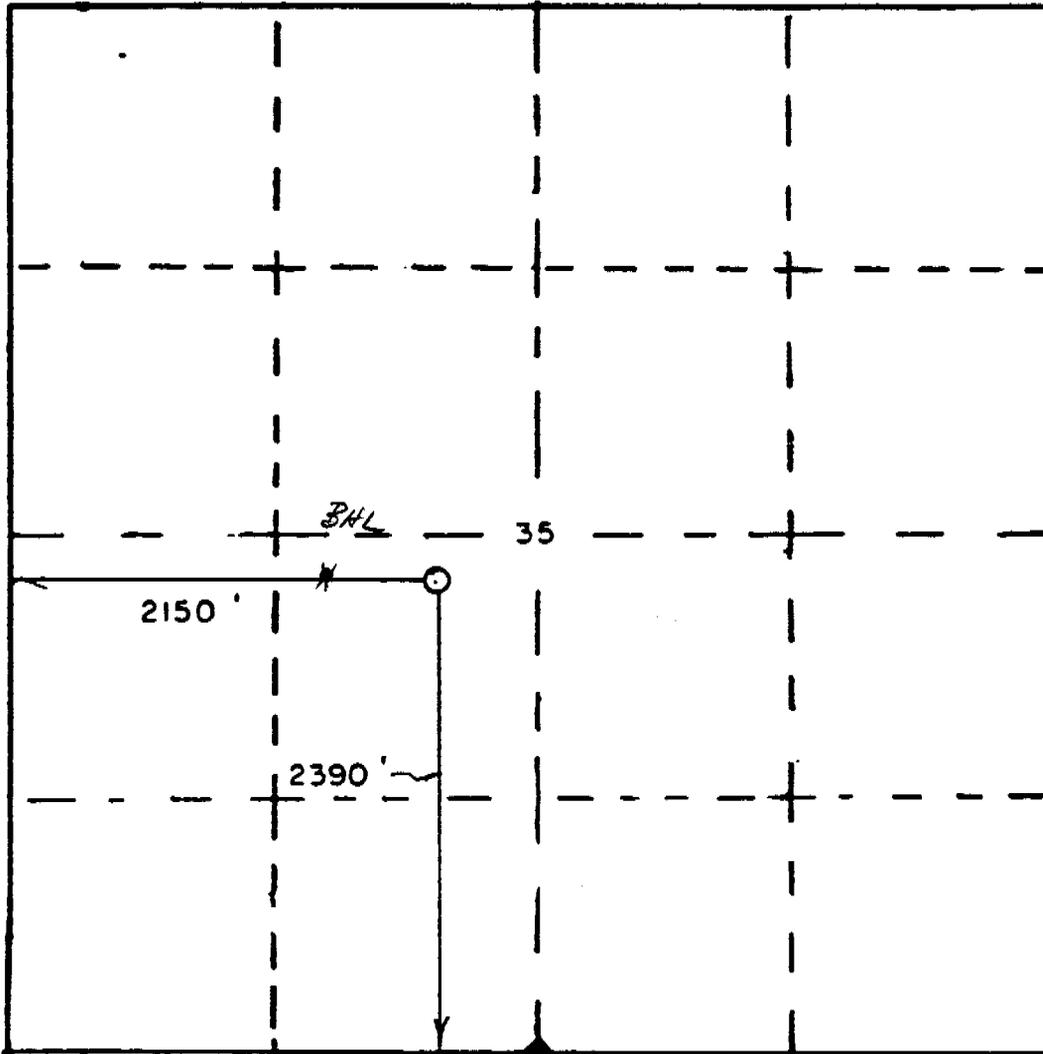
(3/89)

\*See Instructions On Reverse Side

SEP 10 1993

*BLM Approved  
2-3-92  
R649-3-3*

WELL LOCATION PLAT



North  
1" = 1000'  
◆ brass cap  
● stone

BHL 1653 FWL 2399.5 FSL *jeu FRM*

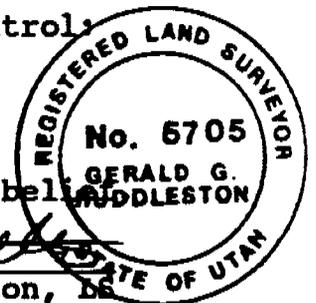
WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., D.C. Anticline 35 - K  
2390' FSL & 2150' FWL  
Section 35, T.41 S., R.23 E., SLM  
San Juan County, UT  
4756' ground elevation  
State plane coordinates from seismic control:  
X = 2,623,271 Y = 193,963  
sp. 285 line 900-8

The above is true and correct to my knowledge and belief

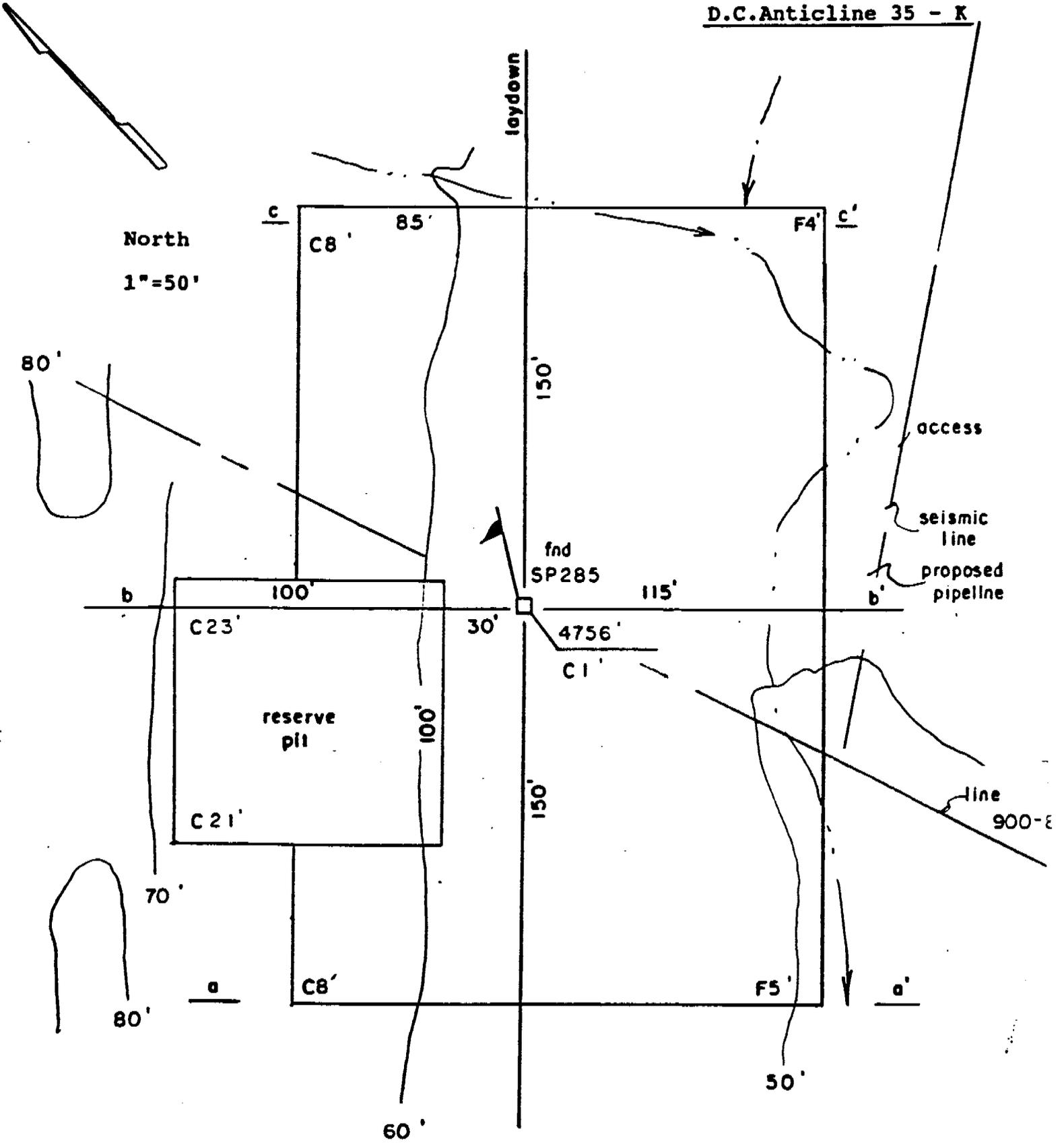
11 November 1991

*Gerald G. Huddleston*  
Gerald G. Huddleston, LS



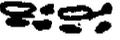
PLANVIEW SKETCH

D.C. Anticline 35 - K

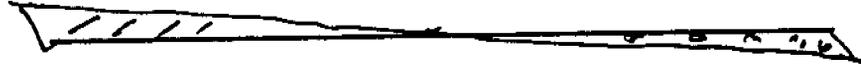


CROSS SECTION

D.C. Anticline 35 - K

Cut /////  
Fill 

1"=50' vert. & horz.



c

c'



b

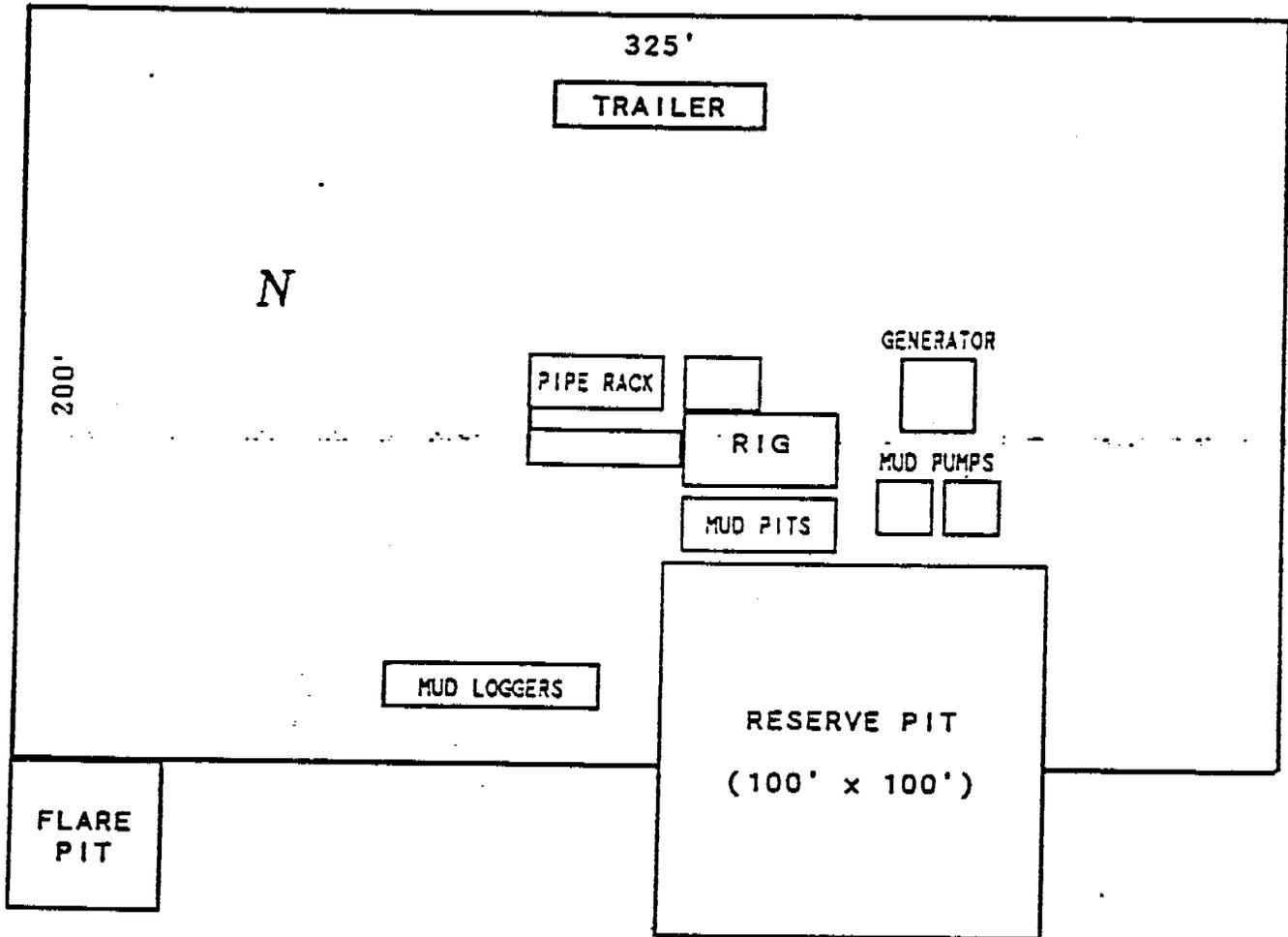
b'



a

a'

D.C. Anticline 35-K  
2390' FSL 2150' FWL  
Section 35-T41S-R23E  
San Juan County, Utah





CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

D.C. Anticline 35-K  
2390' FSL 2150'FWL  
Section 35-T41S-R23E  
San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4,756' GR/ 4769'KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.	
404'	Navajo	+4365'	
1222'	Chinle	+3547'	
2300'	DeChelly	+2464'	
2512'	Organ Rock	+2257'	
3117'	Cedar Mesa	+1652'	
3557'	Hermosa	+1212'	
4169'	Upper Ismay	+600	
4282'	Lower Ismay	+487'	
4342'	Desert Crk	+427	Secondary
4462'	Akah	+307'	
5117'	Molas	-348'	
5242'	Mississippian	-473'	Primary
5707'	Elbert	-938'	
5955'	McCracken	-1186'	
6092'	Cambrian	-1323'	
6919'	TD	-2150'	

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5940'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

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

annular volume.

**PRODUCTION CEMENTING:**

**First Stage**

TD to 3500' (stage collar @ +3500'). Lead with 168 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield = 1.85 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 426 ft<sup>3</sup>.

**SECOND STAGE**

3500' to surface. Lead with 271 sx Class 'G' cement, 65:35 Pozmix with 6% gel and 1/4 lb/sk Celloflake. Weight = 12.7 ppg, yield + 1.85 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 616 ft<sup>3</sup>.

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

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

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

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

6. PROPOSED MUD PROGRAM

Surface to 3500'

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

3500' to TD

Low solids, non-dispersed polymer system. Weight

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

7. AUXILIARY EQUIPMENT

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

8. WELL EVALUATION

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

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

9. ABNORMAL PRESSURES/GAS

Abnormal pressures are not anticipated. Monitoring of gas and hydrocarbon shows will be by wellsite mud logging unit. H<sub>2</sub>S gas is not anticipated, however, regular checks will be made while drilling the well.

10. TIMING

The drilling and evaluation of this well is estimated be 18 days. Anticipated drilling will be February '92.

## DETAILED DRILLING PROGRAM

DATE: December 11, 1991

WELL NAME: D.C. Anticline WELL NO.: 35-K

LOCATION: Section 35-T41S-R23E  
2390' FSL, 2150' FWL  
San Juan County, Utah

ELEVATION: 4756' GR/4769' KB

TOTAL DEPTH: 6919' KB

PROJECTED HORIZON: Primary Target is Mississippian @ 5242'  
Secondary Target is Desert Creek @ 4342'

### DRILLING, CASING AND CEMENTING PROGRAM

1. Move in and rig up rotary tools. Notify BLM of time of spud.
2. Drill mouse hole and rat hole. Mix mud prior to spudding well.
3. Drill 12 1/4" hole to +/- 515'. Use fresh water gel/lime spud mud for drilling surface hole. Well bore inclination is not to exceed 1 degree 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, ST&C casing to TD. Cement with 371 sx (427 ft<sup>3</sup>) of Class 'G' cement with 2% CaCl<sub>2</sub> and 1/4 #/sk Celloflake (sufficient slurry volume to circulate cement to surface.)
5. W.O.C. a minimum of 4 hours prior to nipping up for 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 2000 psig. Pressure test casing to 1500 psig for 30 min.
7. Drill out surface casing with 7/8" bit. Drill 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 degree @ TD, with maximum allowable rate of change to be 1 degree per 100'.

8. Run open hole logs and evaluate. Coring and/or drill stem testing will be as per well site geologist's recommendation.
9. If the well is determined to be productive run 5 1/2" casing to TD., as per casing program in 10 Point Drilling Plan. Set stage cementing collar at +/- 3,500 ft. 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.

# EXHIBIT "A" BLOWOUT PREVENTER

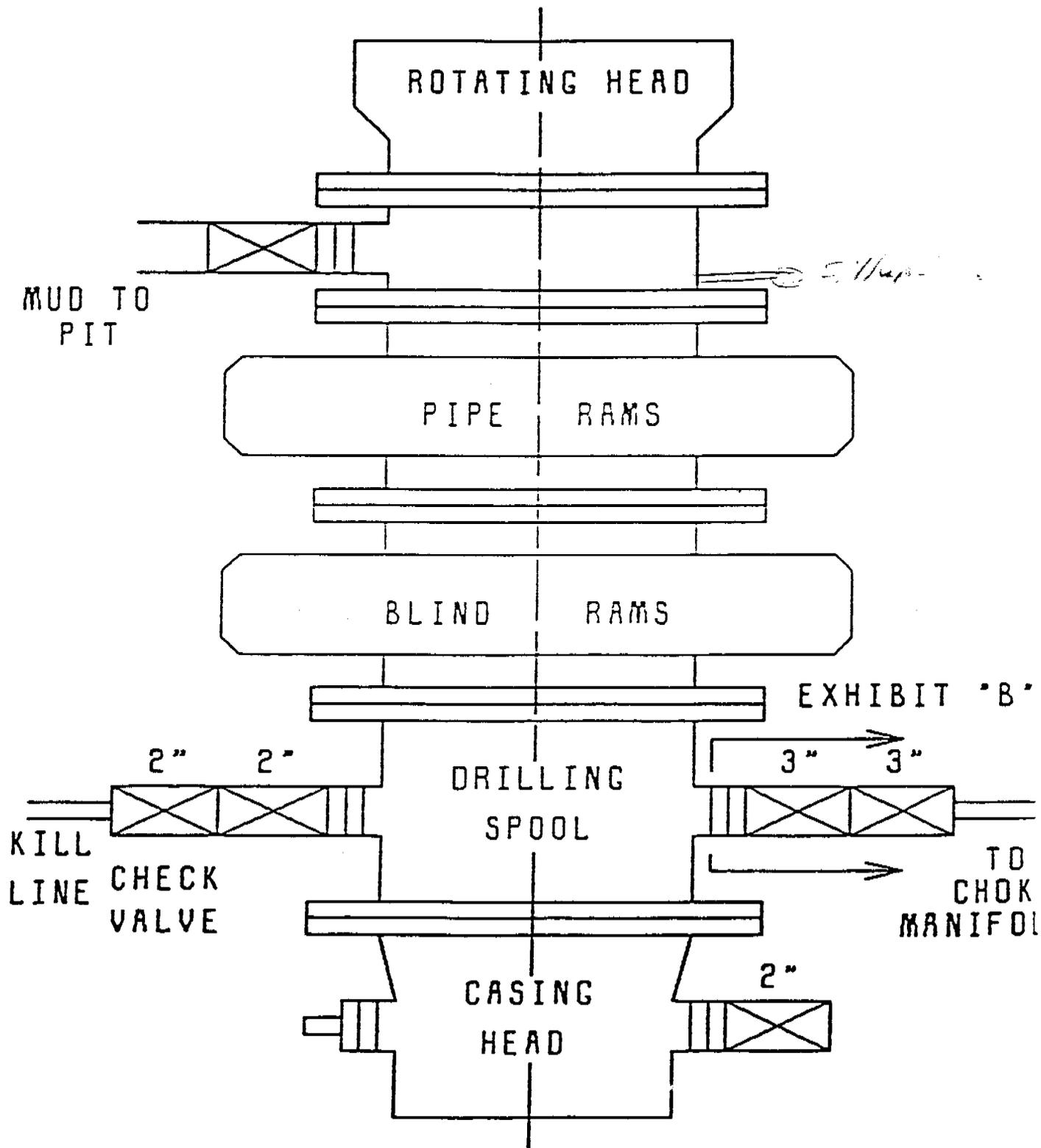
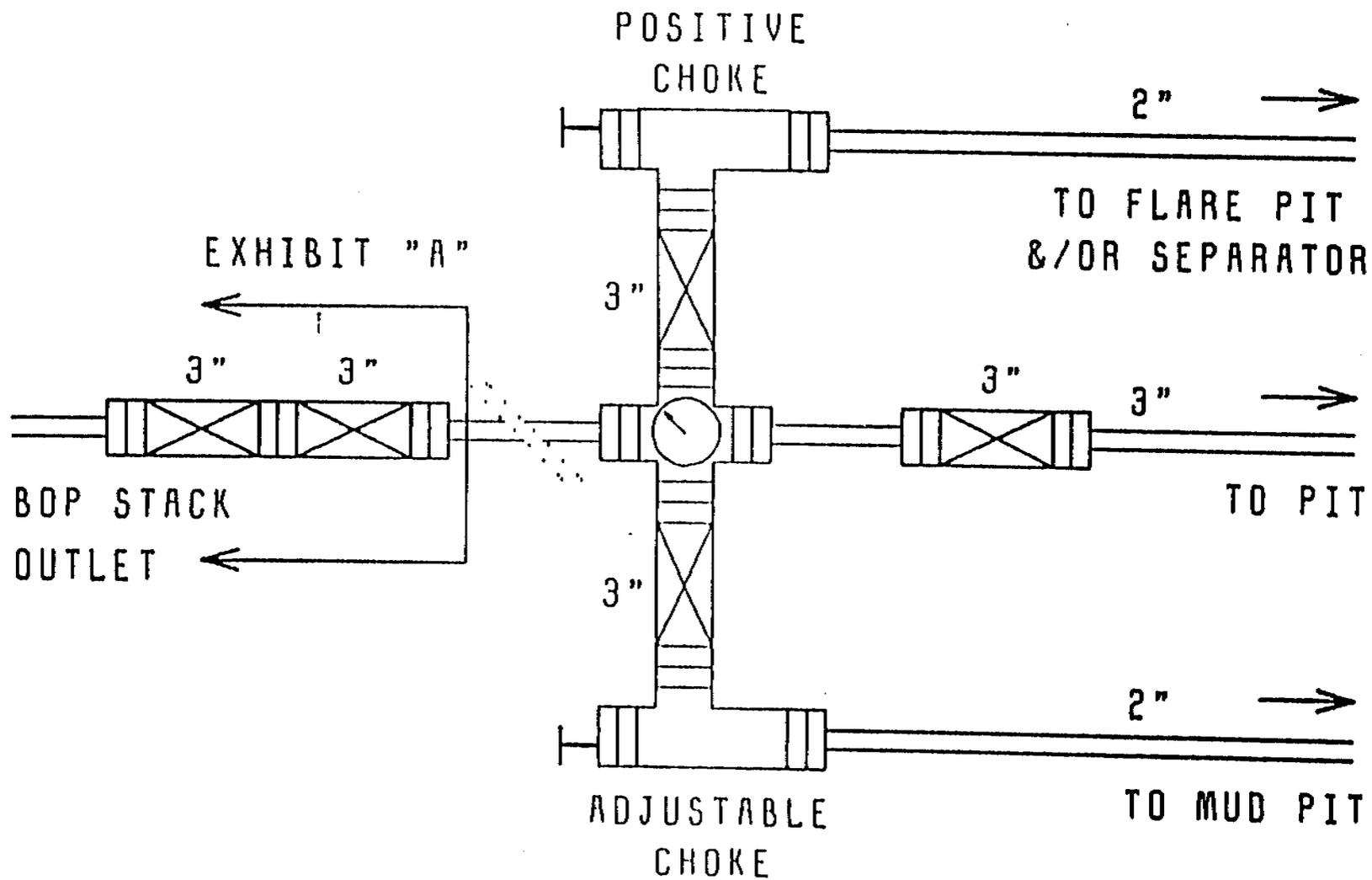


EXHIBIT "B"  
CHOKE MANIFOLD



D.C.Anticline 35-K  
2390' FSL 2150' FWL  
Section 35-T41S-R23E  
San Juan County, Utah

**GENERAL COMPLETION PROCEDURE:**

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

**PLUGGING AND ABANDONMENT:**

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

D.C.Anticline 35-K  
2390' FSL 2150' FWL  
Section 35-T41S-R23E  
San Juan County, Utah

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 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 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 AND TYPE OF WATER SUPPLY

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

6. SOURCE OF CONSTRUCTION MATERIAL

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

After drilling operations are completed, the location and surrounding area will be cleared of all remaining debris and materials not required for production. Compacted areas will be plowed or ripped to a depth of 12 to 16 inches before reseeding. The existing reserve pit will be used. 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 into an approved disposal site. The reserve pit will remain fenced during the evaporation and disposal process. The pit will then be covered and 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, NM 87401  
LARRY G. SESSIONS

12. CERTIFICATION

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

  
LARRY G. SESSIONS  
OPERATIONS MANAGER



# 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  
#35-K D.C. Anticline  
14-20-603-248  
NE $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 35, T. 41 S., R. 23 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 CONDITIONS OF APPROVAL

Operator Chuska Energy Company Well Name 35-K D.C. Anticline  
 Legal Location 2390'FSL/2150'FWL Sec. 35 T. 41 S. R. 23 E.  
 Lease Number 14-20-603-248 Field Inspection Date 11/14/91

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 assessments or penalties pursuant to 43 CFR 3163.1 or 3163.2. A copy of these conditions of approval 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 (In reference to 43 CFR Part 3160) 1) BLM determines that the operator's actions will affect adjacent Federal or Indian surface, or 2) the operator does not maintain well area and lease premises in a workmanlike manner with due regard for safety, conservation and appearance, or 3) no such agreement exists, or 4) in the event of well abandonment, minimal Federal restoration requirements will be required.

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 reseeding. 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. (Reseeding of affected areas may be required).

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

COMPANY.....: Chuska Energy Co.  
 WELL NO.....: D. C. Anticline 35K  
 DATE OF INSPECTION: 11-14-91  
 PROVIDED BY.....: R Cornett



STIPULATIONS  
CHECKED  
APPLY

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

<u>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</u>
<u>✓ SAND</u>	<u>FED. STANDARD</u>	<u>595A - 30277</u>
<u>MOBIL BEIGE 12-F-38</u>		

✓ 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>4</u>
✓ GALLETA.....	<u>2</u>
NEEDLE-N-THREAD.....	_____
SQUIRREL TAIL.....	_____
SIDE OATS GRAMA.....	_____
✓ FOUR-WING SALTBUUSH.....	<u>2</u>
SHADSCALE.....	_____
WINTER-FAT.....	_____

(PURITY X GERMINATION = PLS) \* *Broadcast Only*

3. ✓ THE TOP 10 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.

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.  ACCESS ROADS NOT NEEDED FOR THROUGH TRAFFIC WILL BE BARRICADED AND RESEDED 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 NE SIDE OF THE WELL PAD.
12.  CULVERT(S) OF SUFFICIENT SIZE WILL BE PLACED ON ALL DRAINAGE CROSSINGS OF THE ACCESS ROAD DETERMINED NECESSARY DURING THE ON-SITE INSPECTION.
- 
13.  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 RESEDED 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 12/12/91 WILL BE STRICTLY ADHERED TO. CLEARANCE NO. HPD-91-550
19.  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

Attn: Mr. R.J. Firth  
Associate Director

RECEIVED

SEP 10 1993

DIVISION OF  
OIL, GAS & MINING

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

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

RECEIVED

SEP 10 1993

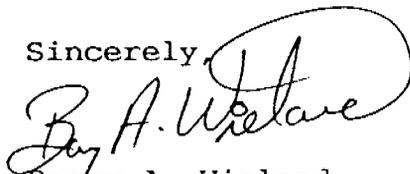
DIVISION OF  
OIL, GAS & MINING

LOGS

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

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

Sincerely,



Barry A. Wieland  
Operations Manager

Enclosures  
cc: Well File

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

*ged  
fun*

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.

BIA 14-20-603-248

6. If Indian, Altona or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

D.C. Anticline 35K

9. API Well No.

43-037-~~70064~~ 31726

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, Utah

**SUBMIT IN TRIPLICATE**

*exp 10 1990*

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, NM 87401 505-326-5525

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

2390' FSL & 2150' FWL  
Section 35-Township 41S-Range 23E

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 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 <b>SPUD</b>
	<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

**CONFIDENTIAL**

(Note: Report results of multiple completion on "r", 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.)

Notified Mark Kelly, BLM, 8:55 am, on Wednesday, 3-25-92 of intent to spud approximately 5:00 pm, Wednesday, 3-25-92.

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

Signature: *[Signature]* Title: Operations Manager Date: 3-27-92

(This space for Federal or State office use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:



*Feb Sem.*

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

SUNDRY NOTICES AND REPORTS ON WELLS

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

3. Lease Designation and Serial No.

BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

D.C. Anticline 35K

9. API Well No.

43-037-70064 31726

10. Field and Pool, or Exploratory Area

Wildcat

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

Chuska Energy Company

3. Address and Telephone No.

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

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

2390' FSL & 2150' FWL  
Section 35-Township 41S-Range 23E

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

TYPE OF SUBMISSION

TYPE OF ACTION

Notice of Intent  
 Subsequent Report  
 Final Abandonment Notice

Abandonment  
 Recompletion  
 Plugging Back  
 Casing Repair  
 Altering Casing  
 Other Spud/Csg

Change of Plans  
 New Construction  
 Non-Routine Fracturing  
 Water Shut-Off  
 Conversion to Injection  
 Dispose Water

(Note: Report results of multiple completion on "Multiple 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 #222 on 3-25-92. Spudded in at 2300 hrs. Drilled 12 1/4' hole to 598'. Unconsolidated fm from 420' - 598'. POH to 470' and condition mud. Pump 40 sx Class 'G' (yield 1.15 from 420' to 470'). Pull up to 402' and circulate in hole, WOC. Trip in hole and tag cement at 433'. Run 9 jts of 8 5/8", 24 ppf, K-55, ST&C Csg and land at 414'. Pump 370 sx Class 'G' w/ 1/4lb (1.15 yield) celloflake plus 2% CaCl2. Circulated 120 sx good cement to surface. Plug down at 4:45 am, 3-27-92, with 480 lbs. Plug held. Received verbal approval from Duanne Spencer, BLM, at 5:15pm, on 3-26-92.

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

Signature *D. A. Winters*

Title Operations Manager

Date 3-27-92

(This space for Federal or State office use)

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

Title \_\_\_\_\_

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.

\*See instruction on Reverse Side

ENTITY ACTION FORM - FORM 6

OPERATOR CHUSKA ENERGY COMPANY  
ADDRESS 3315 BLOOMFIELD HIGHWAY  
FARMINGTON, N.M. 87401

OPERATOR ACCT. NO. N 9290

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
a	99999	11576	43-037-31726	D.C. ANTICLINE #35 K	NESW	35	41S	23E	San Juan	3-25-92	
<p>WELL 1 COMMENTS: Spudded at 5:00 P.M., Wednesday, 3-25-92. Drilled to 598'. Ran and cemented surface casing at 470'. <i>Entity added 11-9-93. Lee</i></p>											
WELL 2 COMMENTS:											
WELL 3 COMMENTS:											
WELL 4 COMMENTS:											
WELL 5 COMMENTS:											

**ACTION CODES** (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

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

(3/89)

SEP 10 1993

Signature BARRY A. WIELAND  
OPERATIONS MANAGER  
Title 5-26-93  
Date  
Phone No. (505) 326-5525



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

FORM APPROVED  
Budget Bureau No. M04-0135  
Expires March 31, 1993

5. Lease Designation and Serial No.

BIA 14-20-603-248

6. If Indian, Allomee or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

D.C. Anticline 35K

9. API Well No.

43-037-70064 31726

10. Field and Pool, or Exploratory Area

Wildcat

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

Chuska Energy Company

3. Address and Telephone No.

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

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

2390' FSL & 2150' FWL  
Section 35-Township 41S-Range 23E

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"/> Bandment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Logging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input type="checkbox"/> Other Spud/Csg
	<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

CONFIDENTIAL

(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.)

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ACCEPTED FOR RECORD

APR 06 1992

FARMINGTON RESOURCE AREA

BY [Signature]

RECEIVED  
BLM  
92 APR -1 PM 2:40  
019 FARMINGTON, N.M.

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

Signature: [Signature] Title: Operations Manager Date: 3-27-92

(This space for Federal or State office use)

Approved by: \_\_\_\_\_ Title: \_\_\_\_\_ Date: \_\_\_\_\_

Conditions of approval, if any:

OPERATOR

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

6. Lease Designation and Serial Number  
BIA 14-20-603-248

7. Indian Allottee or Tribe Name  
NAVAJO TRIBAL

8. Unit or Communitization Agreement

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT-- for such proposals

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

2. Name of Operator  
Chuska Energy Company

3. Address of Operator  
3315 Bloomfield Highway, Farmington, N.M. 87402

4. Telephone Number  
505-326-5525

5. Location of Well  
Footage : 2390' FSL & 2150' FWL  
County : San Juan  
QQ. Sec. T., R., M. : Sec. 35, T41S, R23E  
State : UTAH

9. Well Name and Number  
D.C. ANTICLINE 35 K

10. API Well Number  
43-037-31726

11. Field and Pool, or Wildcat  
Wildcat

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

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

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

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

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

Abandonment \*     New Construction  
 Casing Repair     Pull or Alter Casing  
 Change of Plans     Shoot or Acidize  
 Conversion to Injection     Vent or Flare  
 Fracture Treat     Water Shut-Off  
 Other \_\_\_\_\_ Spud/Csg

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

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

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

MIRU Aztec #222 on 3-25-92. Spudded in at 2300 hrs. Drilled 12 1/4' hole to 598'. Unconsolidated fm from 420'-598'. POH to 470' and condition mud. Pump 40 sx Class 'G' (yield 1.15 from 420' to 470'). Pull up to 402' and circulate in hole. WOC. Trip in hole and tag cement at 433'. Run 9 jts of 8 5/8", 24 #ppf, K-55, ST&C Casing and land at 414'. Pump 370 sx Class 'G' w/1/4# (1.15 yield) Celloflake plus 2% CaCl2. Circulated 120 sx good cement to surface. Plug down at 4:45 A.M., 3-27-92, with 480 lbs. Plug held. Received verbal approval from Duanne Spencer, BLM, at 5:15 P.M., on 3-26-92.

SEP 10 1993

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

Name & Signature B. A. Wieland    BARRY A. WIELAND    Title OPERATIONS MANAGER    Date 5-26-93

(State Use Only)

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.

BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

DC ANTICLINE 35K

9. API Well No.

43-037-60050 3172C

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

2390' FSL, 2150' FWL

S35-T41S-R23E

CONFIDENTIAL

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 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>KICK-OFF PLUG.</u>
	<input type="checkbox"/> Change of Plans
	<input type="checkbox"/> New Construction
	<input type="checkbox"/> Non-Routine Fracturing
	<input type="checkbox"/> Water Shut-Off
	<input type="checkbox"/> Conversion to Injection
	<input type="checkbox"/> Dispose Water

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

VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS, CHUSKA ENERGY COMPANY, TO PLUG BACK AND SET KICK-OFF PLUG. PLUG #1 TO BE FROM 5347' TO 5030" @ 100% EXCESS AND PLUG #2 TO BE FROM 4200' TO 3900' @ 100% EXCESS. PLUG #1 TO BE TAGGED PRIOR TO PUMPING SECOND PLUG. APPROVAL ON 4-15-92 @ 4:30 PM.

RECEIVED  
BLM  
019 FARMINGTON, N.M.  
92 MAY 26 PM 12:48

SEP 10 1992

14. I hereby certify that the foregoing is true and correct  
Signed [Signature] Title OPERATIONS MANAGER Date 5-15-92

(This space for Federal or State office use)  
Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any: \_\_\_\_\_

APPROVED

JUN 03 1992

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.

AREA MANAGER

\*See instruction on Reverse Side

OPERATOR

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

6. Lease Designation and Serial Number BIA 14-20-603-248
7. Indian Allottee or Tribe Name NAVAJO TRIBAL
8. Unit or Communitization Agreement N/A
9. Well Name and Number D.C. ANTICLINE 35 K
10. API Well Number 43-037-31726 <sup>073</sup>
11. Field and Pool, or Wildcat Wildcat
County : San Juan State : UTAH

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT for such proposals

1. Type of Well <input 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 Highway, Farmington, N.M. 87401	4. Telephone Number 505-326-5525'
5. Location of Well Footage : 2390' FSL, 2150' FWL CC, Sec, T., R., M. : S35, T41S, R23E	

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA	
<p><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <p><input type="checkbox"/> Abandonment                      <input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Casing Repair                      <input type="checkbox"/> Pull or Alter Casing</p> <p><input type="checkbox"/> Change of Plans                      <input type="checkbox"/> Recompletion</p> <p><input type="checkbox"/> Conversion to Injection              <input type="checkbox"/> Shoot or Acidize</p> <p><input type="checkbox"/> Fracture Treat                      <input type="checkbox"/> Vent or Flare</p> <p><input type="checkbox"/> Multiple Completion              <input type="checkbox"/> Water Shut-Off</p> <p><input checked="" type="checkbox"/> Other <u>Kick-Off Plug</u></p> <p>Approximate Date Work Will Start _____</p>	<p><b>SUBSEQUENT REPORT</b> (Submit Original Form Only)</p> <p><input type="checkbox"/> Abandonment *                      <input type="checkbox"/> New Construction</p> <p><input type="checkbox"/> Casing Repair                      <input type="checkbox"/> Pull or Alter Casing</p> <p><input type="checkbox"/> Change of Plans                      <input type="checkbox"/> Shoot or Acidize</p> <p><input type="checkbox"/> Conversion to Injection              <input type="checkbox"/> Vent or Flare</p> <p><input type="checkbox"/> Fracture Treat                      <input type="checkbox"/> Water Shut-Off</p> <p><input type="checkbox"/> Other _____</p> <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>

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.)

Verbal approval from Wayne Townsend, BLM, to Larry A. Chambers, Chuska Energy Company, to plug back and set kick-off plug. Plug #1 to be from 5347' to 5030' @ 100% excess and Plug #2 to be from 4200' to 3900' @ 100% excess. Plug #1 to be tagged prior to pumping second plug. Approval on 4-15-92 at 4:30 P.M.

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

Name & Signature B. A. Wieland                      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

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

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

2390' FSL, 2150' FWL  
S35-T41S-R23E

CONFIDENTIAL

5. Lease Designation and Serial No.

BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

DC ANTICLINE 35K

9. API Well No.

43-037-60050 31726 <sup>073</sup>

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment	<input type="checkbox"/> Change of Plans
<input 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>KICK-OFF PLUG.</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.)

VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS, CHUSKA ENERGY COMPANY, TO PLUG BACK AND SET KICK-OFF PLUG. PLUG #1 TO BE FROM 5347' TO 5030" @ 100% EXCESS AND PLUG #2 TO BE FROM 4200' TO 3900' @ 100% EXCESS. PLUG #1 TO BE TAGGED PRIOR TO PUMPING SECOND PLUG. APPROVAL ON 4-15-92 @ 4:30 PM.

SEP 10 1992

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

Signed

*[Signature]*

Title OPERATIONS MANAGER

Date 5-15-92

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 3094-0135  
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 Smit No.

BIA 14-20-603-248

6. If Indian, Allotment or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

DC ANTICLINE 35K

9. API Well No.

43-037-60050 31726

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well  Gas Well  Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

2390' FSL, 2150' FWL  
S35-T41S-R23E

CONFIDENTIAL

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

TYPE OF SUBMISSION	TYPE OF ACTION
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Abandonment
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Plugging Back
	<input type="checkbox"/> Casing Repair
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other KICK-OFF PLUG.
	<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.)\*

PLUGGING OPERATIONS ON 4-16-92 AS FOLLOWS:

PUMP PLUG #1: 5030'-5347', 110 SX CLASS "G", 1.15 YIELD, 15.6 PPG.  
TAGGED @ 7:45 AM, 4-16-92, PRIOR TO PUMPING PLUG #2.

PUMP PLUG #2: 3900'-4200', 170 SX CLASS "G", 1.15 YIELD, 17.2 PPG.

VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS, CHUSKA ENERGY COMPANY, ON 4-15-92.

RECEIVED  
BLM  
92 MAY 26 PM 12:40  
BLM FARMINGTON, NM

SEP 10 1992

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

Signed [Signature] Title OPERATIONS MANAGER

Date 5-15-92

(This space for Federal or State office use)

ACCEPTED FOR RECORD

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Conditions of approval, if any:

JUN 02 1992

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

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.

BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

DC ANTICLINE 35K

9. API Well No.

43-037-60050 31726

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

SEP 10 1993

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

2390' FSL, 2150' FWL  
S35-T41S-R23E

**CONFIDENTIAL**

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

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

(Note: Report results of multiple completion on 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.)

PLUGGING OPERATIONS ON 4-16-92 AS FOLLOWS:

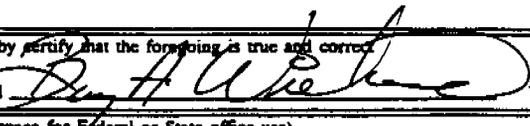
PUMP PLUG #1: 5030'-5347', 110 SX CLASS "G", 1.15 YIELD, 15.6 PPG.  
TAGGED @ 7:45 AM, 4-16-92, PRIOR TO PUMPING PLUG #2.

PUMP PLUG #2: 3900'-4200', 170 SX CLASS "G", 1.15 YIELD, 17.2 PPG.

VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS, CHUSKA ENERGY COMPANY, ON 4-15-92.

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

Signed



Title

OPERATIONS MANAGER

Date

5-15-92

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

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

6. Lease Designation and Serial Number BIA 14-20-603-248
7. Indian Allottee or Tribe Name NAVAJO TRIBAL
8. Unit or Communitization Agreement N/A
9. Well Name and Number D. C. Anticline 35K
10. API Well Number 43-037-31726
11. Field and Pool, or Wildcat Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT for such proposals

1. Type of Well <input 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 Highway, Farmington, N.M. 87401	4. Telephone Number 505-326-5525
5. Location of Well Footage : 2390' FSL, 2150' Q.C. Sec. T., R., M. : Sec. 35, T41S, R23E County : San Juan State : UTAH	

12. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA																											
<p><b>NOTICE OF INTENT</b> (Submit in Duplicate)</p> <table border="0"> <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 border="0"> <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>Kick-off Plug</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>Kick-off Plug</u>	
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13. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

PLUGGING OPERATIONS on 4-16-92 AS FOLLOWS:

Pump Plug #1: 5030'-5347', 110 sx Class "G", 1.15 yield, 15.6 ppg.  
Tagged @ 7:45 A.M., 4-16-92, prior to pumping Plug #2.

Pump Plug #2: 3900'-4200', 170 sx Class "G", 1.15 yield, 17.2 ppg.

Verbal approval from Wayne Townsend, BLM, to Larry A. Chambers, Chuska Energy Company, on 4-15-92.

SEP 10 1993

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

Name & Signature <i>B. A. Wieland</i>	BARRY A. WIELAND	Title OPERATIONS MANAGER	Date 5-26-93
--	------------------	-----------------------------	-----------------

(State Use Only)

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

3. Lease Designation and Serial No.  
BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name  
NAVAJO TRIBAL

SUBMIT IN TRIPLICATE

7. If Unit or CA, Agreement Designation

N/A

1. Type of Well  
 Oil Well  Gas Well  Other

8. Well Name and No.  
DC ANTICLINE 35K

2. Name of Operator  
CHUSKA ENERGY COMPANY

9. API Well No.  
43-037-60050-31724

3. Address and Telephone No.  
3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

10. Field and Pool, or Exploratory Area -  
WILDCAT

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
2390' FSL, 2150' FWL  
S35-T41S-R23E

CONFIDENTIAL

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.)

P&A WELL AS FOLLOWS:

NO:	DEPTH:	FT	SX	FORMATION	TOP
1	5550'-5450'	100	60	MISSISSIPPIAN	5558'
2	4085'-4185'	100	60	UPPER ISMAY	4135'
3	3250'-3350'	100	60	HERMOSA	3300'
4	2350'-2450'	100	60	DE CHELLY	2400'
5	1235'-1335'	100	60	CHINLE	1285'
6	348'-448'	100	60	CASING SHOE	398'
7	50'-SURFACE	50	20	SURFACE	

PLUGS #1, #6 AND #7 TO CONTAIN 2% CaCl<sub>2</sub>. TAG PLUG #1 TO VERIFY DEPTH PRIOR TO PUMPING PLUG #2. VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS OF CHUSKA ENERGY COMPANY AT 11:30 AM, 4-30-92.

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

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

Signed: [Signature] Title OPERATIONS MANAGER

APPROVED  
Date 5-15-92

(This space for Federal or State office use)

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

JUN 03 1992  
AREA MANAGER

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make in 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

IN REPLY REFER TO  
(019)

UNITED STATES DEPARTMENT OF THE INTERIOR

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

43-037-31726

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: 35-K DC Anrecline

CONDITIONS OF APPROVAL

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

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

GENERAL REQUIREMENTS FOR  
PERMANENT ABANDONMENT OF WELLS ON FEDERAL AND INDIAN LEASES  
FARMINGTON RESOURCE AREA

1. Secure prior approval either on a Sundry Notice (Form 3160-5) or verbally from the Fluids Drilling & Production Section at this office before changing the approved plugging program.

2. Plugging equipment used shall have separate mixing and displacement pumps and a calibrated tank to assure proper displacement of plugs. The Operator is responsible for providing all measuring devices needed to assure proper measurement of materials being used.

3. A proper tank or pit will be used to contain all fluids pumped from the well during plugging operations. Unattended pits are to be fenced.

4. All cement plugs are to be placed through tubing (or drillpipe) and shall be a minimum of 100 feet in length with 50% excess inside casing or 100% excess when plug is set in open hole or squeezed into perforations. 15.6#/gal slurry weight is to be used when using class B neat cement or when  $\text{CaCl}_2$  is used. Use the recommended slurry weight of other type cements when they are used (Class C, Pozzolan etc.).

5. Any cement plugs placed when well is not full of fluid, or when well may be taking fluid, (i.e. across perfs-unless bridge plug or retainer is used, across bad csg., or fresh water formations) will be tagged (touched) after cement has set to verify proper location.

5a. Testing The first plug below the surface plug shall generally be tested by either tagging the plug with the working pipe string, or pressuring to a minimum pump (surface) pressure of 1000 psig, with no more than a 10 percent drop during a 15-minute period (cased hole only). If the integrity of any other plug is questioned, it must be tested in the same manner. Also, any cement plug which is the only isolating medium for a fresh water interval or a zone containing a valuable mineral deposit should be tested by tagging with the drill string.

6. Mud must be placed between plugs. Plugging mud is to be made up with a minimum of 15 lbs/bbl of sodium bentonite, and a nonfermenting polymer. Minimum consistency of plugging mud must be 9 lbs/gal and with a minimum viscosity of 50 sec/qt. Fresh water is to be utilized for mixing mud.

7. Following the placement of a cement plug, the withdrawal rate for at least the length of the cement plug shall not exceed 30 ft/min, in order to minimize the contamination of the plug.

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.

**SUBMIT IN TRIPLICATE**

1. Type of Well  
 Oil Well     Gas Well     Other

2. Name of Operator  
 CHUSKA ENERGY COMPANY

3. Address and Telephone No.  
 3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
 2390' FSL, 2150' FWL  
 S35-T41S-R23E

5. Lease Designation and Serial No.  
 BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name  
 NAVAJO TRIBAL

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

8. Well Name and No.  
 DC ANTICLINE 35K

9. API Well No.  
 43-037-60050-31726

10. Field and Pool, or Exploratory Area  
 WILDCAT

11. County or Parish, State  
 SAN JUAN, UTAH

**CONFIDENTIAL**

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.)\*

P&A WELL AS FOLLOWS:

NO:	DEPTH:	FT	SX	FORMATION	TOP
1	5550'-5450'	100	60	MISSISSIPPIAN	5558'
2	4085'-4185'	100	60	UPPER ISMAY	4135'
3	3250'-3350'	100	60	HERMOSA	3300'
4	2350'-2450'	100	60	DE CHELLY	2400'
5	1235'-1335'	100	60	CHINLE	1285'
6	348'- 448'	100	60	CASING SHOE	398'
7	50'-SURFACE	50	20	SURFACE	

PLUGS #1, #6 AND #7 TO CONTAIN 2% CaCl<sub>2</sub>. TAG PLUG #1 TO VERIFY DEPTH PRIOR TO PUMPING PLUG #2. VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS OF CHUSKA ENERGY COMPANY AT 11:30 AM, 4-30-92.

14. I hereby certify that the foregoing is true and correct.  
 Signed: [Signature] Title OPERATIONS MANAGER Date 5-15-92

(This space for Federal or State office use)  
 Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
 Conditions of approval, if any:

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

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

6. Lease Designation and Serial Number  
BIA 14-20-603-248

7. Indian Allottee or Tribe Name  
NAVAJO TRIBAL

8. Unit or Communitization Agreement

9. Well Name and Number  
D.C. ANTICLINE 35 K

10. API Well Number  
42037-31726

11. Field and Pool, or Wildcat  
Wildcat

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells.  
Use APPLICATION FOR PERMIT for such proposals

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

2. Name of Operator  
Chuska Energy Company

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

4. Telephone Number  
505-326-5525

5. Location of Well  
 Footage : 2390' FSL, 2150' FWL  
 CC, Sec. T., R., M. : Sec. 35, T41S, R23E  
 County : San Juan  
 State : UTAH

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

NOTICE OF INTENT (Submit in Duplicate)		SUBSEQUENT REPORT (Submit Original Form Only)	
<input checked="" type="checkbox"/> Abandonment	<input type="checkbox"/> New Construction	<input type="checkbox"/> Abandonment *	<input type="checkbox"/> New Construction
<input checked="" type="checkbox"/> Casing Repair	<input type="checkbox"/> Pull or Alter Casing	<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"/> Change of Plans	<input type="checkbox"/> Shoot or Acidize
<input type="checkbox"/> Conversion to Injection	<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"/> Vent or Flare	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Multiple Completion	<input type="checkbox"/> Water Shut-Off	<input type="checkbox"/> Other _____	
<input type="checkbox"/> Other _____			

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

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

Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.  
\* Must be accompanied by a cement verification report.

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

P & A well as follows:

NO. :	DEPTH	FT.	SX	FORMATION	TOP
1	5550'-5450'	100	60	Mississippian	5558'
2	4085'-4185'	100	60	Upper Ismay	4135'
3	3250'-3350'	100	60	Hermosa	3300'
4	2350'-2450'	100	60	DeChelly	2400'
5	1235'-1335'	100	60	Chinle	1285'
6	348'- 448'	100	60	Casing Shoe	398'
7	50'-Surface	50	20	Surface	

Plugs #1, #6 and #7 to contain 2% CaCl2. Tag Plug #1 to verify depth prior to pumping Plug #2. Verbal approval from Wayne Townsend, BLM, to Larry A. Chambers of Chuska Energy Company at 11:30 A.M., 4-30-92.

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

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.  
BIA 14-20-603-248

6. If Indian, Allottee or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

DC ANTICLINE 35K

9. API Well No.

43-037-60050 31726

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well  Gas Well  Other

SEP 10 1993

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

2390' FSL, 2150' FWL  
S35-T41S-R23E

**CONFIDENTIAL**

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

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

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

D.C. ANTICLINE WELL WAS PLUGGED ON 5-1-92 BY AZTEC RIG #222 AND DOWELL SERVICE COMPANIES. THE FOLLOWING PLUGS WERE SET USING 100% EXCESS. VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS AT CHUSKA ENERGY COMPANY.

NO.	DEPTH	FT	SX	FORMATION	TOP
1	5550'-5450'	100	60	MISSISSIPPIAN	5558'
2	4085'-4185'	100	60	UPPER ISMAY	4135'
3	3250'-3350'	100	60	HERMOSA	3300'
4	2350'-2450'	100	60	DE CHELLY	2400'
5	1235'-1335'	100	60	CHINLE	1285'
6	348'- 448'	100	60	CASING SHOE	398'
7	50'-SURFACE	50	20	SURFACE	

PLUG #7 CONTAINED 2% CaCl<sub>2</sub>. PLUG #1 WAS TAGGED @ 5440' PRIOR TO PUMPING PLUG #2.

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

Signed [Signature] Title OPERATIONS MANAGER Date 5-15-92

(This space for Federal or State office use)

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

**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.

BIA 14-20-603-248

6. If Indian, Altona or Tribe Name

NAVAJO TRIBAL

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

DC ANTICLINE 35K

9. API Well No.

43-037-60050 31726

10. Field and Pool, or Exploratory Area

WILDCAT

11. County or Parish, State

SAN JUAN, UTAH

**SUBMIT IN TRIPLICATE**

1. Type of Well

Oil Well     Gas Well     Other

2. Name of Operator

CHUSKA ENERGY COMPANY

3. Address and Telephone No.

3315 BLOOMFIELD HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

2390' FSL, 2150' FWL  
S35-T41S-R23E

**CONFIDENTIAL**

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

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

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

D.C. ANTICLINE WELL WAS PLUGGED ON 5-1-92 BY AZTEC RIG #222 AND DOWELL SERVICE COMPANIES. THE FOLLOWING PLUGS WERE SET USING 100% EXCESS. VERBAL APPROVAL FROM WAYNE TOWNSEND, BLM, TO LARRY A. CHAMBERS AT CHUSKA ENERGY COMPANY.

NO.	DEPTH	FT	SX	FORMATION	TOP
1	5550'-5450'	100	60	MISSISSIPPIAN	5558'
2	4085'-4185'	100	60	UPPER ISMAY	4135'
3	3250'-3350'	100	60	HERMOSA	3300'
4	2350'-2450'	100	60	DE CHELLY	2400'
5	1235'-1335'	100	60	CHINLE	1285'
6	348'- 448'	100	60	CASING SHOE	398'
7	50'-SURFACE	50	20	SURFACE	

RECEIVED  
BLM  
92 MAY 26 PM 12:47  
019 FARMINGTON, N.M.

PLUG #7 CONTAINED 2% CaCl<sub>2</sub>. PLUG #1 WAS TAGGED @ 5440' PRIOR TO PUMPING PLUG #2.

Approved as to plugging of the well by  
Liability under bond is retained until  
surface restoration is completed.

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

Signed [Signature] Title OPERATIONS MANAGER

**APPROVED**  
Date 5-15-92

(This space for Federal or State office use)

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

Title \_\_\_\_\_

JUN 03 1992  
AREA MANAGER



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE\*

See 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 \_\_\_\_\_

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

2. NAME OF OPERATOR

CHUSKA ENERGY COMPANY

3. ADDRESS AND TELEPHONE NO. (505) 326-5525  
3315 BLOOMFILED HIGHWAY, FARMINGTON, NEW MEXICO 87401

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

At surface 2390' FSL, 2150' FWL

At top prod. interval reported below

At total depth WEST: 2391' FSL, 2027' FWL

EAST: 2272' FSL, 2129' FWL

14. PERMIT NO. DATE ISSUED

43-037-31724

5. LEASE DESIGNATION AND SERIAL NO.

BIA 14-20-603-248

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO TRIBAL

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME, WELL NO.

DC ANTICLINE 35K

9. API WELL NO.

43-037-60050-31724

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

S35-T41S-R23E

12. COUNTY OR PARISH

SAN JUAN

13. STATE

UTAH

15. DATE SPUDDED 3-25-92 16. DATE T.D. REACHED 5-1-92 17. DATE COMPL. (Ready to prod.) P&A 5-1-92 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\* 4756' GL 4769' KB 19. ELEV. CASINGHEAD 4756' GL

20. TOTAL DEPTH, MD & TVD EAST 5487' MD WEST 5634' MD 21. PLUG BACK T.D., MD & TVD #1 PLUG BACK 5347-5030 #2 PLUG BACK 3900-4200 22. IF MULTIPLE COMPL., HOW MANY\* - 23. INTERVALS DRILLED BY - 24. ROTARY TOOLS Yes 25. CABLE TOOLS NO

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*

None

CONFIDENTIAL

26. TYPE ELECTRIC AND OTHER LOGS RUN

WEST: DIPMETER (MSD) EAST: SONIC/DIP METER (MSD)

27. WAS WELL CORDED

NO

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8" K-55	24 #/FT	397.81	12 1/4	370 SX CLASS "G" + 1/4 #/SX	CELLO FLAKE
X CIRCULATE	120 SKS CEMENT TO SURFACE.				

29. LINER RECORD

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

30. TUBING RECORD

31. PREPARATION RECORD (Interval, size and number)

SEP 10 1993

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

DATE FIRST PRODUCTION	PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	WELL STATUS (Producing or shut-in)					
P&A							
DATE OF TEST	HOURS TESTED	CHOKER SIZE	PROD'N. FOR TEST PERIOD	OIL—BSL.	GAS—MCF.	WATER—BSL.	GAS-OIL RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BSL.	GAS—MCF.	WATER—BSL.	OIL GRAVITY-API (CORR.)	

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

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

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

SIGNED By A. W. W. W.

TITLE OPERATIONS MANAGER

DATE 5-15-92

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

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

SUBMIT IN DUPLICATE

(See 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 \_\_\_\_\_

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

3. NAME OF OPERATOR  
**CHUSKA ENERGY COMPANY**

4. ADDRESS AND TELEPHONE NO. (505) 326-5525  
3315 BLOOMFILED HIGHWAY, FARMINGTON, NEW MEXICO 87401

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 2390' FSL, 2150' FWL  
At top prod. interval reported below  
At total depth WEST: 2391' FSL, 2027' FWL  
EAST: 2272' FSL, 2129' FWL

14. PERMIT NO. 43-037-31726 DATE ISSUED \_\_\_\_\_

6. LEASE DESIGNATION AND SERIAL NO.  
**BIA 14-20-603-248**

7. IF INDIAN, ALLOTTEE OR TRIBE NAME  
**NAVAJO TRIBAL**

8. UNIT AGREEMENT NAME  
**N/A**

9. FARM OR LEASE NAME, WELL NO.  
**DC ANTICLINE 35K**

10. API WELL NO.  
**43-037-60050**

11. FIELD AND POOL, OR WILDCAT  
**WILDCAT**

12. SEC. T. R., M., OR BLOCK AND SURVEY OR AREA  
**S35-T41S-R23E**

13. COUNTY OR PARISH  
**SAN JUAN**

14. STATE  
**UTAH**

15. DATE SPUDDED **3-25-92** 16. DATE T.D. REACHED **5-1-92** 17. DATE COMPL. (Ready to prod.) **P&A 5-1-92** 18. ELEVATIONS (OF. BKB, ST. GR., ETC.)\* **4756' GL 4769' KB** 19. ELEV. CASINGHEAD **4756' GL**

20. TOTAL DEPTH, MD & TVD **EAST 5487' MD WEST 5634' MD** 21. PLUG BACK T.D., MD & TVD **#1 PLUG BACK 5347-5030' MD #2 PLUG BACK 3900-4200' MD** 22. IF MULTIPLE COMPL., HOW MANY? **-** 23. INTERVALS DRILLED BY **-** ROTARY TOOLS **Yes** CABLE TOOLS **NO**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
**None**

25. WAS DIRECTIONAL SURVEY MADE  
**YES**

26. TYPE ELECTRIC AND OTHER LOGS RUN  
**WEST: DIPMETER (MSD) EAST: SONIC/DIP METER (MSD)**

27. WAS WELL CORED  
**NO**

**CONFIDENTIAL**

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

CASING SIZE/GRADE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	TOP OF CEMENT, CEMENTING RECORD	AMOUNT PULLED
8 5/8" K-55 X CIRCULATE	24 #/FT	114 397.81 120 SKS CEMENT TO SURFACE.	12 1/4	370 SX CLASS "G" + 1/4 #/SX	CELLO FLAKE

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

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

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION

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

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

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

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

35. LIST OF ATTACHMENTS \_\_\_\_\_

**ACCEPTED FOR RECORD**

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

SIGNATURE Bo A. Ureola TITLE OPERATIONS MANAGER DATE JUN 02 1992  
5-15-92

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

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	MEAS. DEPTH	TOP VERT. DEPTH
P & A PLUGS (5-92)			DST #1 (EAST) 5204'-5347' MD			
#1: 60 SXS "G"	5450'	5550'	MISSISSIPPIAN FORMATION	WEST: NAVAJO	432'	432'
#2: 60 SXS "G"	4085'	4185'	INITIAL OPEN: 15 MIN.	CHINLE	1285'	1285'
#3: 60 SXS "G"	3250'	3350'	INITIAL SHUT IN: 30 MIN.	DE CHELLY	2403'	2403'
#4: 60 SXS "G"	2350'	2450'	FINAL OPEN: 180 MIN.	CUTLER	2603'	2603'
#5: 60 SXS "G"	1235'	1335'	FINAL CLOSE IN: 180 MIN.	HERMOSA	3887'	3885'
#6: 60 SXS "G"	348'	448'	NO CUSHION	UPPER ISMAY	4137'	4135'
#7: 20 SXS "G"	50'	SURFACE	DEPTH 5204	HOVENWEEP SHALE	4195'	4193'
RECOVERY:				LOWER ISMAY	4211'	4209'
150' OF MUD			INITIAL FIRST FLOW: 791 PSI	DESERT CREEK	4254'	4252'
300' OF GAS CUT MUD W/TRACE OF OIL.			FINAL FIRST FLOW: 1029 PSI	AKAH	4376'	4373'
150' OF WATER CUT MUD.			INITIAL FIRST CLOSED-IN: 1029 PSI	MISSISSIPPIAN	5558'	5465'
11' OF GRAVEL.			FINAL FIRST CLOSED-IN: 2009 PSI	EAST:		
			INITIAL SECOND FLOW: 751 PSI	UPPER ISMAY	4137'	4135'
			FINAL SECOND FLOW: 1612 PSI	HOVENWEEP SHALE	4200'	4198'
			INITIAL SECOND CLOSED-IN: 1612 PSI	LOWER ISMAY	4212'	4210'
			FINAL SECOND CLOSED-IN: 2009 PSI	DESERT CREEK	4251'	4249'
			FINAL HYDROSTATIC: 2475 PSI	AKAH	4370'	4368'
				MISSISSIPPIAN	5422'	5406'

38. GEOLOGIC MARKERS

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1. LEASE DESIGNATION AND SERIAL NO.

BIA 14-20-603-248

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

NAVAJO TRIBAL

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME

9. WELL NO.

D.C. Anticline 35 K

10. FIELD AND POOL OR WILDCAT

Wildcat

11. SEC. T. R. W. OR BLOCK AND SURVEY OR AREA

Sec. 35, T41S, R23E

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

13. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. REVL.  Other \_\_\_\_\_

2. NAME OF OPERATOR

Chuska Energy Company

3. ADDRESS OF OPERATOR

3315 Bloomfield Highway, Farmington, N.M. 87401 505-326-5525

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

At surface 2390' FSL, 2150' FWL

At top prod. interval reported below

At total depth West:2391' FSL, 2027' FWL  
East:2272' FSL, 2129' FWL

SFP 10 1993

14. API NO. DATE ISSUED  
43-037-31726

12. COUNTY 12. STATE  
San Juan Utah

15. DATE SPUNDED 16. DATE T.D. REACHED 17. DATE COMPL. (Apply to prod.) 18. ELEVATIONS (SP. SER. AT. OR ETC.) 19. ELEV. CASINGHEAD  
3-25-92 5-1-92 P&A 5-1-92 (Plug & Seal) 4756' GL 4769' KB 4756' GL

20. TOTAL SECTS. NO. & TYPE 21. PLUG BACK T.D. NO. & TYPE 22. IF MULTIPLE COMPL. HOW MANY 23. INTERVALS DRILLED BY 24. ROTARY TOOLS 25. CABLE TOOLS  
East 5487' MD #1 Plug Back 5347-5038  
West 5634' MD #2 Plug Back 3906-4288  
None Yes No

26. PRODUCING INTERVAL(S) OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)

None

27. TYPE OF LOG AND OTHER LOGS FOR CALIBER COMPUTER PROCESSED LOG

West: Dipmeter (MSD) East: Sonic/Dip Meter (MSD)

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8 5/8" K-55	24#/ft	414	11 1/4"	370 sx Class "G" + 1/4#/sx Celloflake	
x Circulate	120 sks cement to surface				

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

31. PERFORATION RECORD (Depth, size and number)

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

33. PRODUCTION  
DATE FIRST PRODUCTION P & A  
PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)  
WELL STATUS (Producing or abandoned)

DATE OF TEST	WELLS TESTED	CHOKER SIZE	PROD. N. FOR TEST PERIOD	OIL—GAL.	GAS—MCF.	WATER—GAL.	GAS-OIL RATIO
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE		OIL—GAL.	GAS—MCF.	WATER—GAL.	OIL GRAVITY—API (CORR.)

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

35. LIST OF ATTACHMENTS

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

SIGNED BARRY A. WILFAND TITLE OPERATIONS MANAGER DATE 5-25-93

5-25-93

INSTRUCTIONS

This form should be completed in compliance with the Utah Oil and Gas Conservation General Rules. If not filled 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.
P&A Plugs (5-1-92)			DST #1 (EAST) 5204'-5347' MD
#1: 60 sxs "G"	5450'	5550'	Mississippian Formation
#2 60 SXS "G"	4085'	4185'	Initial Open: 15 Min.
#3 60 SXS "G"	3250'	3350'	Initial Shut In: 30 Min.
#4 60 SXS "G"	2350'	2450'	Final Open: 180 Min.
#5 60 SXS "G"	1235'	1335'	Final Close In: 180 Min.
#6 60 SXS "G"	348'	448'	No Cushion
#7 60 SXS "G"	50'	Surface	
RECOVERY:			DEPTH 5204'
150' of Mud			Initial First Flow: 791 PSI
300' of Gas Cut Mud/Trace of Oil			Final First Flow: 1029 PSI
150' of Water Cut Mud			Initial First Close In: 1029 PSI
11' of Gravel			Final First Closed In: 2009 PSI
			Initial Second Flow: 751 PSI
			Final Second Flow: 1612 PSI
			Initial Second Closed In: 1612 PSI
			Final Second Closed In: 2009 PSI
			Final Hydrostatic: 2475 PSI

38. GEOLOGIC MARKERS

Name	Meas. Depth	Top	True Vert. Depth
WEST:			
Navajo	432'		432'
Chinle	1285'		1285'
De Chelly	2403'		2403'
Cutler	2603'		2603'
Hermosa	3887'		3885'
Upper Ismay	4137'		4135'
Hovenweep Shale	4195'		4193'
Lower Ismay	4211'		4209'
Desert Creek	4254'		4252'
Akah	4376'		4373'
Mississippian	5558'		5465'
EAST:			
Upper Ismay	4137'		4135'
Hovenweep Shale	4200'		4198'
Lower Ismay	4212'		4210'
Desert Creek	4251'		4249'
Akah	4370'		4368'
Mississippian	5422'		5406'



# HARKEN SOUTHWEST CORPORATION

(formerly Chuska Energy Company)

June 30, 1994

Mr. Mike Hebertson  
State of Utah  
Division of Oil, Gas & Mining  
3 Triad Center, Suite 350  
Salt Lake City, UT 85180

M-5

Dear Mike:

Pursuant to your request enclosed are the Directional Surveys for the following wells:

Mule 31K 43-037-31617	Sec 31 T415 R24E
N. Cajon Mesa 5E#1 43-037-31624	Sec 5 T405 R25E
N.W. Cajon Mesa 6E 43-037-31627	Sec 6 T405 R25E
D.C. Anticline 35K 43-037-31726	Sec 35 T415 R23E
Lark 19B 43-037-31731	Sec 19 T425 R24E

Should you need additional information please let me know.

Very truly yours,

**HARKEN SOUTHWEST CORPORATION**

*Rachelle Montgomery*  
Rachelle Montgomery  
Production Administrator

RM/jkw

Enclosure

CHUSKA ENERGY COMPANY  
D.C. ANTICLINE 35-K

D.C. ANTICLINE 35-K  
slot #1  
SEC 35-41S-23E  
San Juan County, Utah

SURVEY LISTING

Your ref : Sidetrack #1  
Our ref : avy2522  
Other ref :

Date printed : 19-May-92  
Date created : 21-Apr-92  
Last revised : 28-Apr-92

Field is centred on n37 10 0.000,w109 25 0  
Structure is centred on n37 10 0.000,w109 25 0

CHUSKA ENERGY COMPANY  
D.C. ANTICLINE 35-K, D.C. ANTICLINE 35-K  
SEC 35-41S-23E, San Juan County, Utah

SURVEY LISTING Page 1  
Your ref : Sidetrack #1  
Last revised : 28-Apr-92

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
692.00	1.40	279.60	691.93	1.41 N	8.34 W	0.20	8.34
1128.00	2.30	294.40	1127.70	5.91 N	21.55 W	0.23	21.55
1750.00	1.60	295.80	1749.34	14.85 N	40.74 W	0.11	40.74
2372.00	0.80	226.90	2371.22	15.66 N	51.73 W	0.24	51.73
2994.00	0.40	49.70	2993.21	14.10 N	53.24 W	0.19	53.24
3617.00	1.40	131.20	3616.14	10.49 N	45.86 W	0.22	45.86
3928.00	2.30	125.60	3926.97	4.36 N	37.92 W	0.29	37.92
3936.00	2.50	117.30	3934.96	4.18 N	37.64 W	5.00	37.64
3967.00	2.50	127.80	3965.94	3.46 N	36.50 W	1.48	36.50
3999.00	3.30	142.60	3997.90	2.30 N	35.39 W	3.40	35.39
4030.00	3.30	158.10	4028.84	0.76 N	34.52 W	2.87	34.52
4062.00	3.30	172.10	4060.79	1.00 S	34.05 W	2.51	34.05
4092.00	3.30	193.90	4090.74	2.70 S	34.14 W	4.16	34.14
4123.00	3.90	206.60	4121.68	4.51 S	34.82 W	3.21	34.82
4155.00	4.30	219.20	4153.60	6.41 S	36.07 W	3.07	36.07
4186.00	5.30	232.60	4184.49	8.18 S	37.94 W	4.82	37.94
4217.00	6.40	244.50	4215.33	9.79 S	40.64 W	5.26	40.64
4248.00	6.40	248.80	4246.14	11.16 S	43.81 W	1.54	43.81
4279.00	6.40	255.10	4276.95	12.23 S	47.09 W	2.26	47.09
4310.00	7.00	264.90	4307.74	12.84 S	50.64 W	4.16	50.64
4341.00	7.20	272.70	4338.50	12.92 S	54.46 W	3.17	54.46
4373.00	7.60	272.70	4370.23	12.73 S	58.58 W	1.25	58.58
4404.00	8.40	269.20	4400.93	12.66 S	62.89 W	3.02	62.89
4435.00	9.20	266.30	4431.56	12.85 S	67.63 W	2.95	67.63
4466.00	10.20	264.90	4462.12	13.26 S	72.84 W	3.31	72.84
4498.00	10.70	263.50	4493.59	13.84 S	78.61 W	1.75	78.61
4528.00	11.70	261.40	4523.02	14.62 S	84.38 W	3.60	84.38
4560.00	12.70	260.70	4554.30	15.67 S	91.06 W	3.16	91.06
4590.00	13.50	261.40	4583.52	16.72 S	97.78 W	2.72	97.78
4621.00	14.30	263.50	4613.61	17.70 S	105.16 W	3.05	105.16
4653.00	15.00	264.90	4644.57	18.52 S	113.21 W	2.45	113.21
4684.00	15.20	265.60	4674.50	19.18 S	121.26 W	0.87	121.26
4715.00	15.60	267.80	4704.38	19.66 S	129.48 W	2.28	129.48
4745.00	16.40	269.20	4733.22	19.87 S	137.74 W	2.96	137.74
4776.00	17.60	269.20	4762.87	20.00 S	146.81 W	3.87	146.81
4807.00	18.40	268.50	4792.35	20.19 S	156.38 W	2.67	156.38
4838.00	19.30	267.80	4821.69	20.51 S	166.39 W	2.99	166.39
4868.00	20.50	268.50	4849.89	20.84 S	176.60 W	4.08	176.60
4899.00	21.30	269.90	4878.85	20.99 S	187.66 W	3.04	187.66
4930.00	22.70	270.60	4907.60	20.94 S	199.27 W	4.59	199.27
4960.00	24.00	270.60	4935.14	20.82 S	211.16 W	4.33	211.16
4990.00	25.00	272.00	4962.44	20.53 S	223.60 W	3.85	223.60
5022.00	26.00	274.10	4991.32	19.79 S	237.35 W	4.21	237.35
5053.00	27.00	275.50	5019.06	18.63 S	251.13 W	3.80	251.13
5114.00	29.10	276.90	5072.90	15.52 S	279.64 W	3.61	279.64
5146.00	29.50	277.60	5100.80	13.55 S	295.18 W	1.64	295.18
5177.00	29.30	276.90	5127.81	11.63 S	310.28 W	1.28	310.28
5208.00	29.30	277.60	5154.84	9.71 S	325.32 W	1.10	325.32
5239.00	29.50	277.60	5181.85	7.70 S	340.41 W	0.64	340.41

All data is in feet unless otherwise stated  
Coordinates are from slot #1 and TVDs are from wellhead.  
Vertical section is from wellhead on azimuth 270.00 degrees.  
Calculation uses the minimum curvature method.

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	R E C T A N G U L A R C O O R D I N A T E S		Dogleg Deg/100ft	Vert Sect
5271.00	28.90	277.60	5209.78	5.64 S	355.88 W	1.87	355.88
5302.00	28.50	277.60	5236.98	3.67 S	370.64 W	1.29	370.64
5333.00	28.30	277.60	5264.24	1.72 S	385.25 W	0.64	385.25
5363.00	27.90	277.60	5290.71	0.15 N	399.26 W	1.33	399.26
5394.00	27.70	276.90	5318.13	1.98 N	413.60 W	1.24	413.60
5424.00	27.00	277.60	5344.78	3.72 N	427.28 W	2.57	427.28
5456.00	26.80	276.90	5373.32	5.54 N	441.64 W	1.17	441.64
5488.00	26.20	275.50	5401.95	7.09 N	455.83 W	2.71	455.83
5520.00	25.80	271.10	5430.72	7.90 N	469.82 W	6.15	469.82
5551.00	25.80	274.10	5458.63	8.51 N	483.30 W	4.21	483.30
5582.00	26.00	274.10	5486.51	9.48 N	496.81 W	0.64	496.81

All data is in feet unless otherwise stated  
Coordinates are from slot #1 and TVDs are from wellhead.  
Vertical section is from wellhead on azimuth 270.00 degrees.  
Calculation uses the minimum curvature method.

CHUSKA ENERGY COMPANY  
D.C. ANTICLINE 35-K, D.C. ANTICLINE 35-K  
SEC 35-41S-23E, San Juan County, Utah

SURVEY LISTING Page 3  
Your ref : Sidetrack #1  
Last revised : 28-Apr-92

Targets associated with this wellpath  
=====

Target name	Position	T.V.D. Local rectangular coords.		Date revised
	not specified	5300.00	0.00N 400.00W	16-Apr-92

All data is in feet unless otherwise stated  
Coordinates are from slot #1 and TVDs are from wellhead.  
Slot coordinates are 0.00 N 0.00 E.  
Bottom hole distance is 46.14 on azimuth 197.45 degrees from wellhead.  
Vertical section is from wellhead on azimuth 270.00 degrees.  
Calculation uses the minimum curvature method.

CHUSKA ENERGY COMPANY  
D.C. ANTICLINE 35-K  
D.C. ANTICLINE 35-K  
slot #1  
SEC 35-41S-23E  
San Juan County, Utah

SURVEY LISTING

Your ref : CHUSKA ANTICLINE  
Our ref : svy2514  
Other ref :

Date printed : 19-May-92  
Date created : 8-Apr-92  
Last revised : 21-Apr-92

Field is centred on n37 10 0.000,w109 25 0  
Structure is centred on n37 10 0.000,w109 25 0

CHUSKA ENERGY COMPANY  
D.C. ANTICLINE 35-K, D.C. ANTICLINE 35-K  
SEC 35-41S-23E, San Juan County, Utah

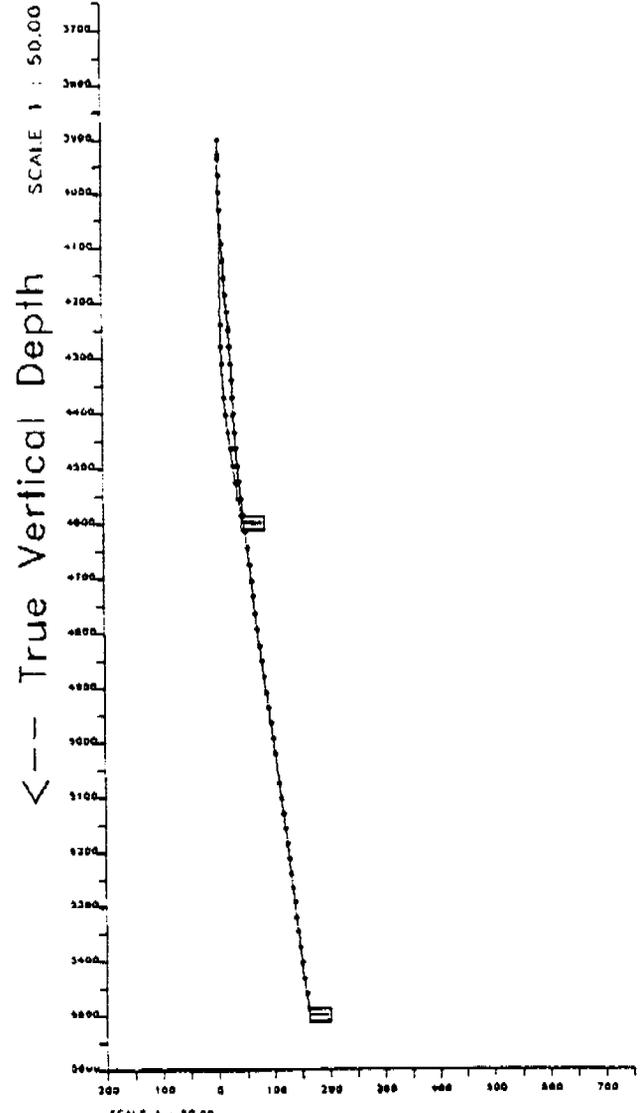
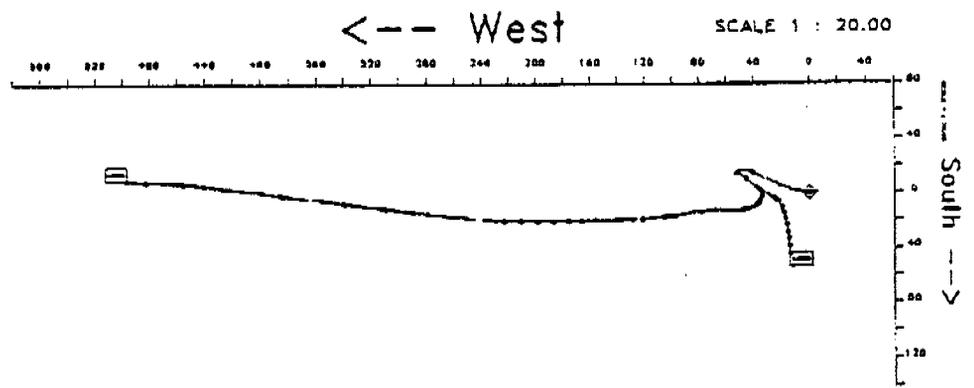
SURVEY LISTING Page 1  
Your ref : CHUSKA ANTICLINE  
Last revised : 21-Apr-92

Measured Depth	Inclin. Degrees	Azimuth Degrees	True Vert. Depth	RECTANGULAR COORDINATES		Dogleg Deg/100Ft	Vert Sect
0.00	0.00	0.00	0.00	0.00 N	0.00 E	0.00	0.00
692.00	1.40	279.60	691.93	1.41 N	8.34 W	0.20	1.53
1128.00	2.30	294.40	1127.70	5.91 N	21.55 W	0.23	1.82
1750.00	1.60	295.80	1749.34	14.85 N	40.74 W	0.11	-0.02
2372.00	0.80	226.90	2371.22	15.66 N	51.73 W	0.24	2.98
2994.00	0.40	49.70	2993.21	14.10 N	53.24 W	0.19	4.96
3617.00	1.40	131.20	3616.14	10.49 N	45.86 W	0.22	5.83
3928.00	2.30	125.60	3926.97	4.36 N	37.92 W	0.29	8.88
4238.00	3.10	120.00	4236.63	3.46 S	25.61 W	0.27	12.01
4278.00	3.30	126.30	4276.56	4.68 S	23.74 W	1.01	12.52
4310.00	3.90	138.30	4308.50	6.04 S	22.28 W	3.00	13.29
4371.00	6.30	158.00	4369.26	10.69 S	19.64 W	4.82	16.76
4403.00	7.60	163.60	4401.02	14.35 S	18.39 W	4.58	19.77
4434.00	8.80	169.20	4431.71	18.64 S	17.36 W	4.64	23.46
4466.00	9.40	169.90	4463.30	23.62 S	16.45 W	1.91	27.82
4497.00	9.20	171.30	4493.90	28.56 S	15.63 W	0.97	32.19
4529.00	9.60	173.40	4525.47	33.74 S	14.93 W	1.65	36.82
4559.00	9.60	174.80	4555.05	38.72 S	14.42 W	0.78	41.32
4590.00	10.20	172.70	4585.58	44.02 S	13.84 W	2.26	46.09

All data is in feet unless otherwise stated  
Coordinates are from slot #1 and TVDs are from wellhead.  
Vertical section is from N 0.00 E 0.00 on azimuth 200.00 degrees.  
Calculation uses the minimum curvature method.

# CHUSKA ENERGY COMPANY

Structure : D.C. ANTICLINE 35-K    Well : D.C. ANTICLINE 35-K  
 Field : SEC 35-41S-23E    Location : San Juan County, Utah



SCALE 1 : 50.00  
 Vertical Section on 750.00 azimuth with reference 0.00 N, 0.00 E from well pt