

**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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface: **2380' FSL & 340' FEL**
 At proposed prod. zone: **Same**

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6.5 miles southwest of Montezuma Crk, Utah

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME
N/A

8. FARMOR LEASE NAME, WELL NO.
Kokopelli 29I

9. AN WELL NO.

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA
29-41S-23E

12. COUNTY OR PARISH 13. STATE
San Juan UT

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. appx **2000'**
 (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE
49,997

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. appx **3 mi**

19. PROPOSED DEPTH
5816'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4703' GR/ 4716' KB This action is subject to technical and procedural review pursuant to 42 CFR 3165.3 and appeal purposes.

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

23. **CEMENTING PROGRAM**

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT ATTACHED
12 1/4"	K-55 8 5/8"	24.0	500'	Class 'G' w/2% CaCl/1/4 Celloflak
7 7/8"	K-55 5 1/2"	15.5	5746'	Class 'G' w/2% CaCl/1/4 Celloflak

SEE ATTACHED FOR 10 POINT DRILLING PLAN AND DETAILED DRILLING PROGRAM

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

10 1993

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 location, and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED *Ray A. Welch* TITLE Operations Manager DATE 3-2-92

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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

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

*See Instructions On Reverse Side

APPROVED AS AMENDED

APR 30 1992
[Signature]
AREA MANAGER

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Kokopelli 29I

Section 29, Township 41 South, Range 23 East
2380' FSL & 340' FEL
San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4,703' GR/ 4,716 KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.
389'	Navajo	+4327'
1239'	Chinle	+3477'
2339'	DeChelly	+2377'
2564'	Organ Rock	+2152'
3378'	Cedar Mesa	+1338'
4395'	Hermosa	+ 321
5350'	Upper Ismay	- 634'
5466'	Lower Ismay	- 750' Secondary
5546'	Desert Crk	- 830' Primary
5746'	Akah	-1030'
5816,	TD	-1100'

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5746'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

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

PRODUCTION CEMENTING:

First Stage

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

SECOND STAGE

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

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

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

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

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

6. PROPOSED MUD PROGRAM

Surface to 3500'

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

3500' to TD

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

7. AUXILIARY EQUIPMENT

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

8. WELL EVALUATION

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

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

9. ABNORMAL PRESSURES/GAS

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

10. TIMING

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

DETAILED DRILLING PROGRAM

DATE: February 28, 1992

WELL NAME: Kokopelli WELL NO.: 29I

LOCATION: Section 29, T41 South, R23 East
2380' FSL & 340' FEL
San Juan County, Utah

ELEVATION: 4,703'GR/4,716'KB

TOTAL DEPTH: 5816'KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 5546'
Secondary Target is lower Ismay @ 5466'

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 ft³) of Class 'G' cement with 2% CaCl₂ 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 2,500 psig for 30 minutes. Pressure test manifold and all related equipment to 2500 psig. Pressure test casing to 1500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 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.

Kokopelli 29I
Section 29-T41S-R23E
2380' FSL & 340' FEL
San Juan County, Utah

GENERAL COMPLETION PROCEDURE:

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

PLUGGING AND ABANDONMENT:

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

Kokopelli 29I
Section 29-T41S-R23E
2380' FSL & 340' FEL
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. 2.4 miles of new access road will be constructed to reach the well pad location.

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/or Chuska Energy's yard 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
BARRY A. WIELAND

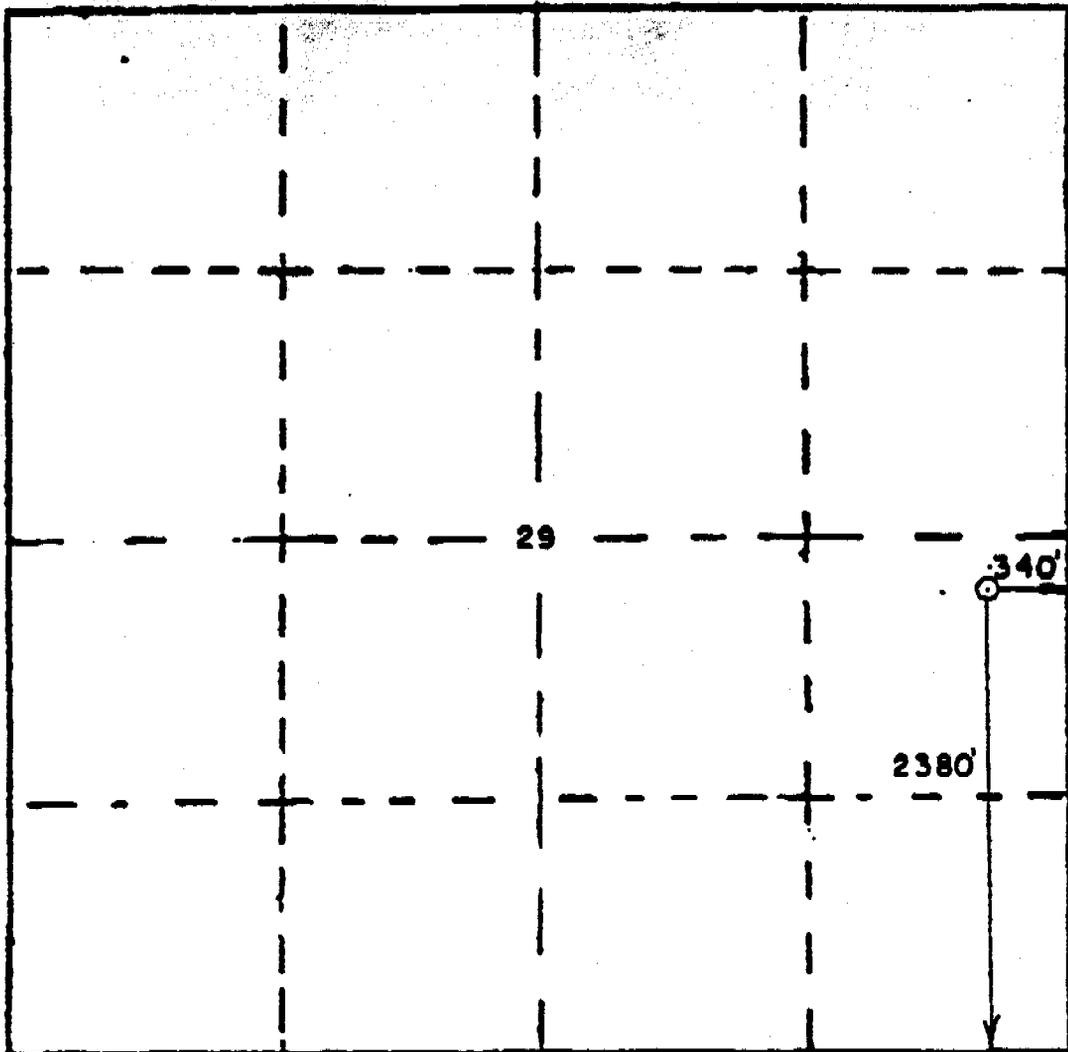
12. CERTIFICATION

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.



BARRY A. WIELAND
OPERATIONS MANAGER

WELL LOCATION PLAT



North
1" = 1000'

◆ brass cap

● stone

019 FARRINGTON, N.M.

92 MAR -6 PM: 1:39

RECEIVED
BLM

WELL LOCATION DESCRIPTION:

CHUSKA ENERGY CO., Kokopelli 29 - I

2380' PSL & 340' FEL

Section 29, T.41 S., R.23 E., SLM

San Juan County, UT

4703' ground elevation

State plane coordinates from seismic control:

X = 2,610,104 Y = 198,936

sta. 165.5 line 600-14

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

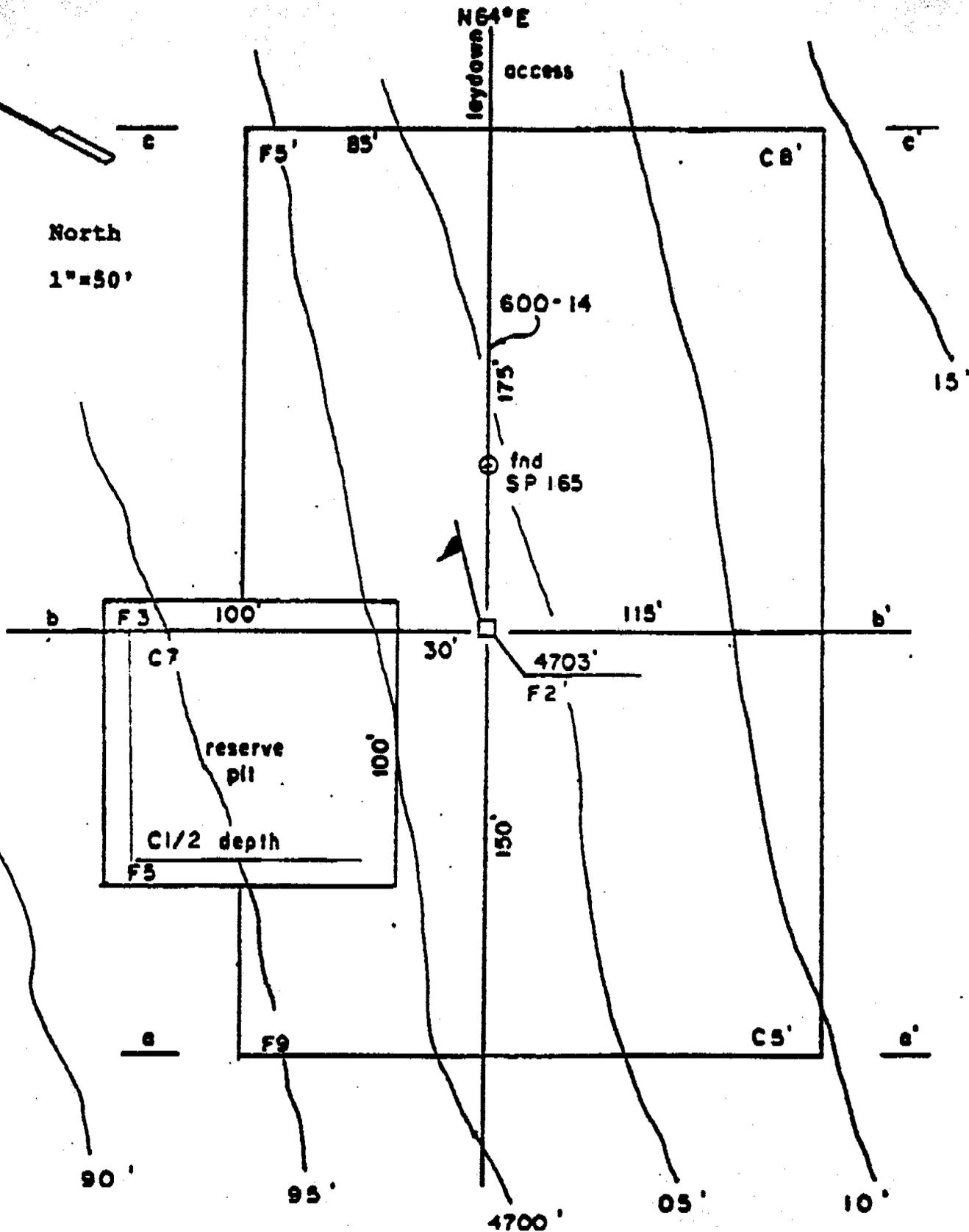
11 November 1991

Gerald G. Suddleston
Gerald G. Suddleston



PLANVIEW SKETCH

Kokopelli 29 - I

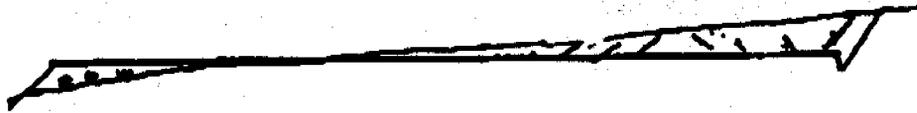


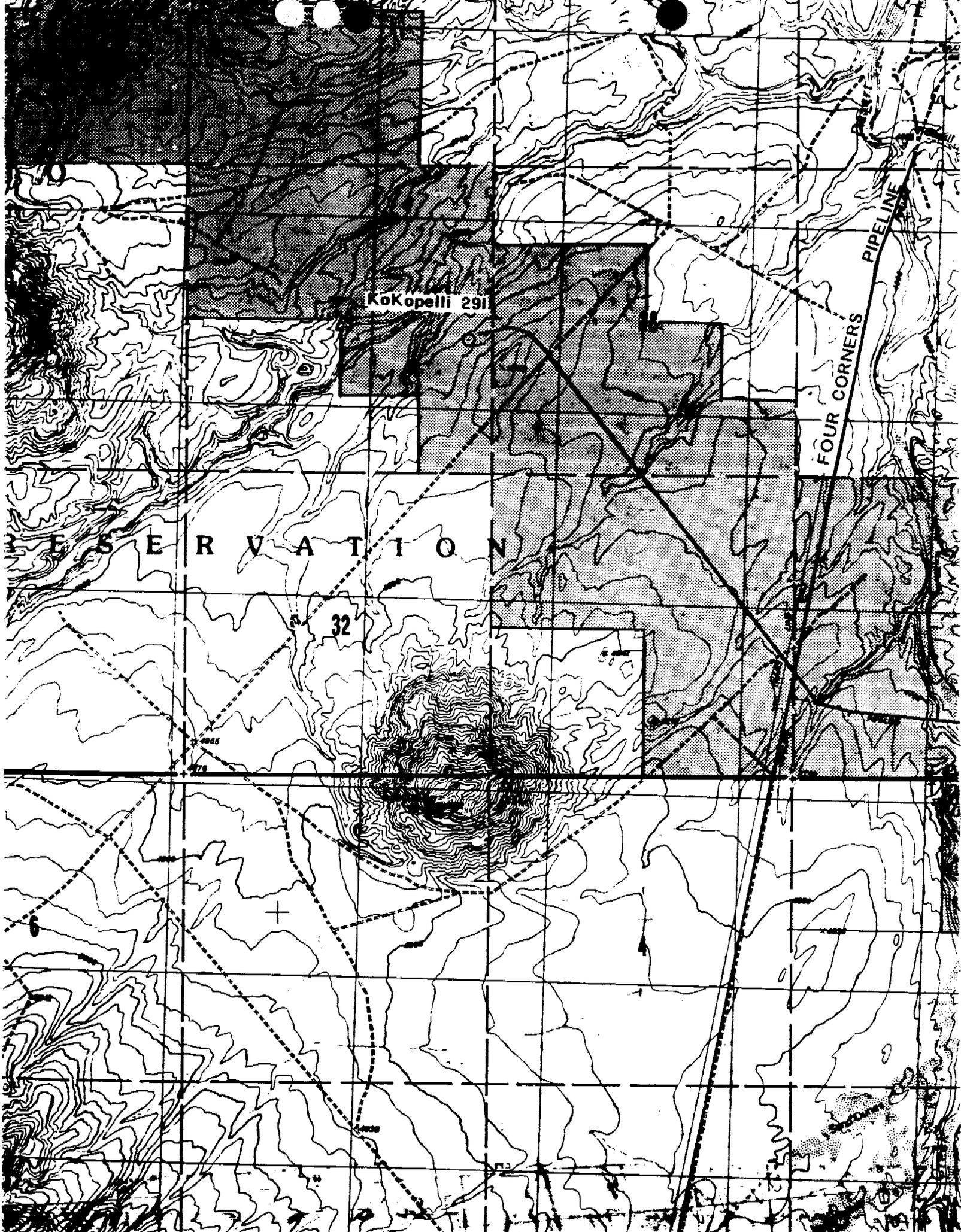
CROSS SECTION

Kokopelli 29 - I

Cut 
Fill 

1" = 50' vert. & horz.





Kokopelli 291

R E S E R V A T I O N

32

FOUR CORNERS PIPELINE

EXHIBIT "B"
CHOKE MANIFOLD

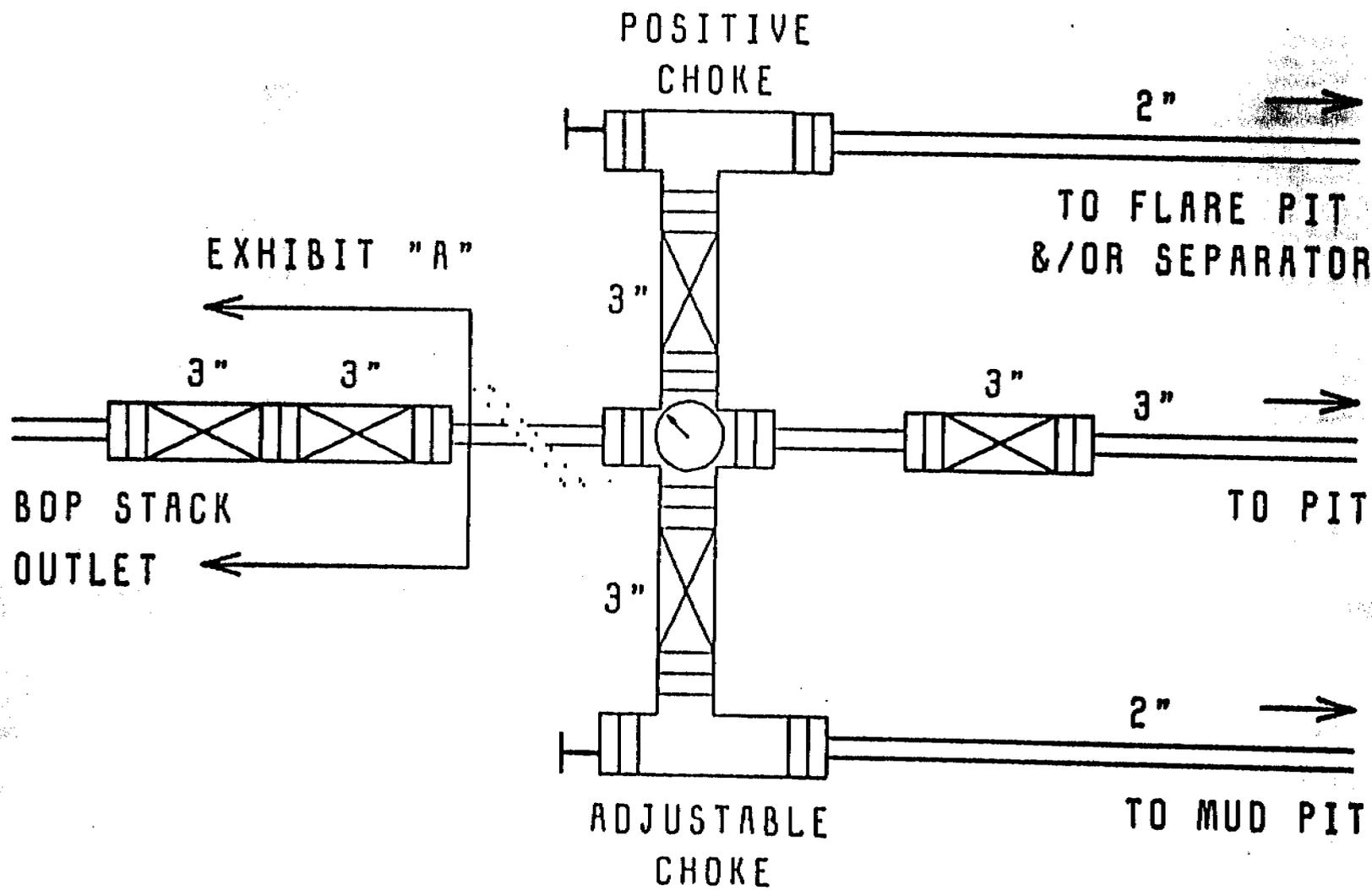


EXHIBIT "A"
BLOWOUT PREVENTER

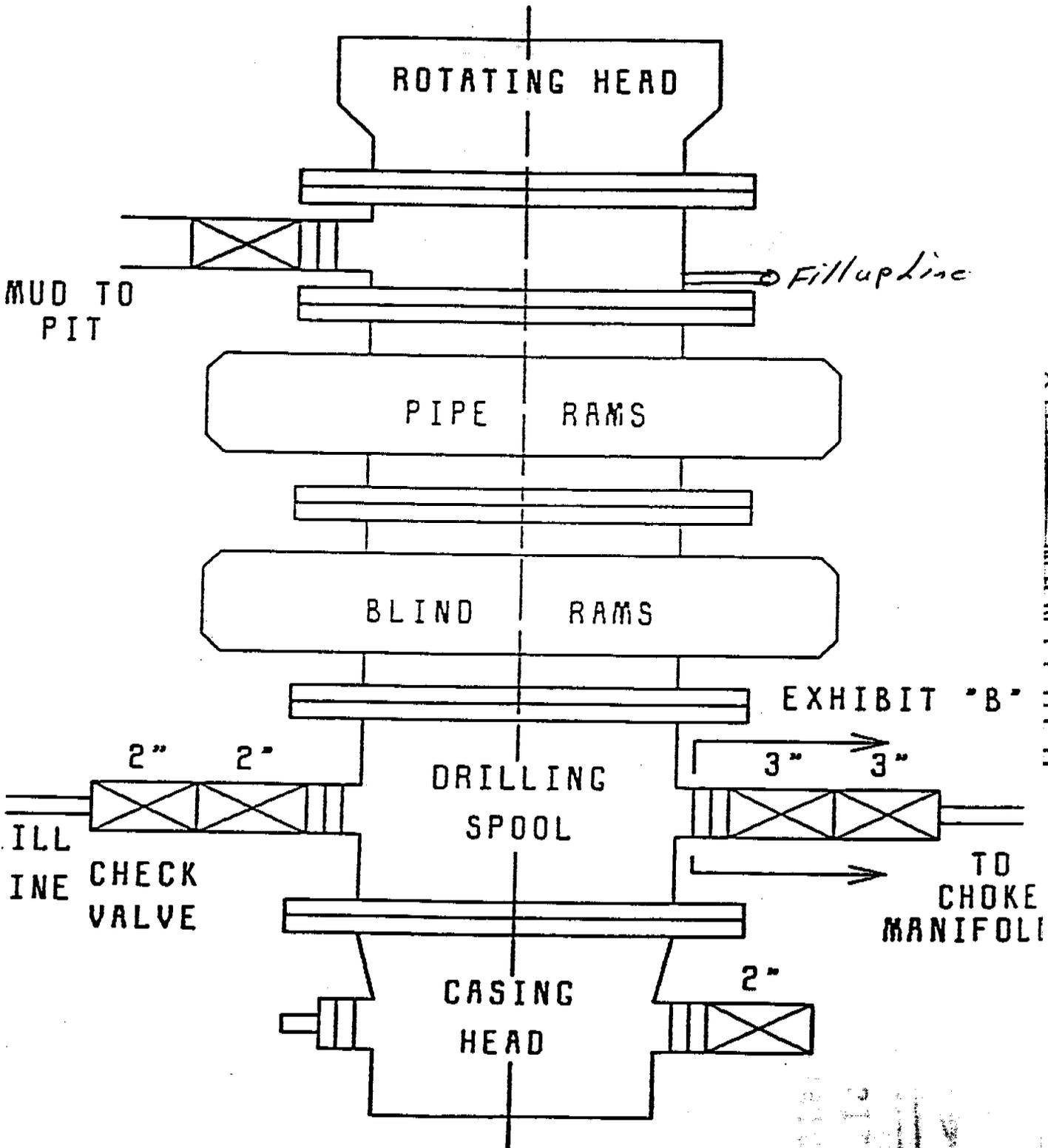


EXHIBIT "B"
MAINTENANCE

operator

Department of the Interior



LAND MANAGEMENT
RESOURCE AREA
TA HIGHWAY
NEW MEXICO 87401

IN REPLY REFER TO:
3162.3-1 (019)

Chuska Energy Company
#29I Kokopelli
NOG-8702-1116
NE 1/4 sec. 29, T. 41 S., R. 23 E.
San Juan County, Utah

Above Data Required on Well Sign

GENERAL REQUIREMENTS
FOR
WELLS ON FEDERAL AND INDIAN LEASES

set forth in the laws, regulations and rules apply generally to all oil and gas operations. They apply specifically to the requirements that apply and are effective for those operations in Section VII of these General Requirements or to comply with these requirements and the result in strict enforcement of 43 CFR 3163.1

All applicable laws, regulations, and Onshore Rules to Drill, and with the approved Surface Use Rules. Lessees and/or operators are fully accountable to the contractor and subcontractors.

The well sign in legible condition from spud date should show the operator's name, lease serial number, location of the well, and whether lease is (3162.6(b)).

The approved Application for Permit to Drill, and approval, shall be available to authorized personnel whenever active drilling operations are under way.

At least once a drilling operations progress report is to be filed until the well is completed and the Well Completion Report is filed. The report should be on 8 1/2 x 11 inch paper and should identify the well by; operator's name, well number.

Immediate notice is required of all blowouts, fires and other threatening injuries or loss of life. (See NTL-3A).

GENERAL

29I Kokopelli

T. 41 S. R. 23 E.

Inspection Date 11/14/92

Well unless a particular operator has supplied to BLM and approved regulation. The failure of the operator will result in the assessment of 43 CFR 3163.3 or 3163.4. A well location during

will take precedence over other claims that the operator's surface (43 CFR Part 3160), lease and lease premises in a well observation and appearance exists (43 CFR Part 3160), Federal restoration (3167-2).

Maintained in a workmanlike condition and appearance. All liquid associated with oil and gas operations shall be placed, or removed and

Access will be limited to the

well so as not to leak, contain solids. At least half of the top of the outside wall of the well shall be of one blade of width. Pit walls are to be 2 feet of free board. Pit walls are to be constructed and prior to completion shall be removed to below-grade of reserve pit from the pit area.

Low pits) containing pits will be fenced on all four sides. The fourth side will be in accordance with New Mexico regulations, or be properly fenced. (This office will be notified in all circumstances will be confined within the reserve pit will be covered until the pit is reclaimed. All pits will be covered with

E. 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.

F. Berms or firewalls will be constructed around all storage facilities sufficient in size to contain the storage capacity of the tanks, or the combined capacity of tanks if a rupture could drain more than one tank. Berm walls will be compacted with appropriate equipment to assure proper construction.

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

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

II. Cultural Resources (Archaeology)

A. DISCOVERY OF CULTURAL RESOURCES IN THE ABSENCE OF MONITORING: If, in its operations, operator discovers any previously unidentified historic or prehistoric cultural resources, then work in the vicinity of the discovery will be suspended and the discovery promptly reported to the BLM Area Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed. Failure to notify the BLM about a discovery may result in civil or criminal penalties in accordance with the Archeological Resources Protection Act of 1979 (as amended).

B. DISCOVERY OF CULTURAL RESOURCES DURING MONITORING: If monitoring confirms the presence of previously unidentified cultural resources, then work in the vicinity of the discovery will be suspended and the monitor will promptly report the discovery to the BLM Area Manager. BLM will then specify what action is to be taken. If there is an approved "discovery plan" in place for the project, then the plan will be executed. In the absence of an approved plan, the BLM will evaluate the significance of the discovery and consult with the State Historic Preservation Officer in accordance with 36 CFR Section 800.11. Minor recordation, stabilization, or data recovery may be performed by BLM or a permitted cultural resources consultant. If warranted, more extensive treatment by a permitted cultural resources consultant may be required of the operator prior to allowing the project to proceed. Further damage to significant cultural resources will not be allowed until any required treatment is completed.

C. DAMAGE TO SITES: If, in its operations, operator damages, or is found to have damaged any previously documented or undocumented historic or prehistoric cultural resources, excluding "discoveries" as noted above, the operator agrees at his/her expense to have a permitted cultural resources consultant prepare and have executed a BLM approved data recovery plan. Damage to cultural resources may result in civil or criminal penalties in

accordance with the Archeological Resources Protection Act of 1979 (as amended).

III. 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. Seed will be planted between 1/2. inch deep and 3/4 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, so as not to detract from the natural appearance of the area.

D. If, in the opinion of surface management agency, seeding is unsuccessful, 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 dead-end ditch and earthen barricade at the entrance to these ripped areas. (Reseeding of the affected areas may be required).

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

COMPANY.....: Chuska Energy Co
 WELL NO.....: Kokopelli 29-I
 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>Broadcast Only</u>	<u>LBS./ACRE/PLS</u>
CRESTED WHEATGRASS.....		
SLENDER WHEATGRASS.....		
SMOOTH BROME.....		
ORCHARDGRASS.....		
YELLOW SWEETCLOVER.....		
SAINFOIN.....		
WESTERN WHEATGRASS.....		
✓ SAND DROPSEED.....		
ALKALI SACATON.....		<u>1</u>
✓ INDIAN RICEGRASS.....		
✓ GALLET <u>Giant Dropseed</u>		<u>3</u>
✓ NEEDLE N THREAD <u>Mammoth Wildrye</u>		<u>1</u>
SQUIRREL TAIL.....		<u>3</u>
SIDE OATS GRAMA.....		
FOUR-WING SALTBUSH.....		
SHADSCALE.....		
WINTER-FAT.....		

(PURITY X GERMINATION = PLS)

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.

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-91-551
19. UPON ABANDONMENT, ALL MATERIAL BROUGHT IN TO FLAT THE SURFACE OF THE WELL PAD AND/OR THE ACCESS ROAD WILL BE CLEANED UP AND DISPOSED OF PRIOR TO RESEEDING.
20. NA THE CONSTRUCTION WORK CONDUCTED AT THIS LOCATION WILL NEED TO BE INSPECTED BEFORE THE DRILL RIG IS MOVED ON THE LOCATION.

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

OTHER:



CHUSKA ENERGY COMPANY

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

September 7, 1993

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

RECEIVED

SEP 10 1993

DIVISION OF
OIL, GAS & MINING

Attn: Mr. R.J. Firth
Associate Director

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

Dear Mr. Firth:

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

APD(S), SUNDRY NOTICES AND ENTITY ACTION FORMS

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

**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

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface 2380' FSL & 340' FEL
 At proposed prod. zone Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
6.5 miles southwest of Montezuma Crk, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. appx 2000'
 (Also to nearest drig. unit line, if any)

16. NO. OF ACRES IN LEASE
49,997

17. NO. OF ACRES ASSIGNED TO THIS WELL

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. appx 3 mi

19. PROPOSED DEPTH
5816'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
4703' GR/ 4716' KB

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

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME, WELL NO.
Kokopelli 29I

9. AP WELL NO.

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLM. AND SURVEY OR AREA
29-41S-23E

12. COUNTY OR PARISH 13. STATE
San Juan UT

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	K-55 8 5/8"	24.0	500'	Class 'G' w/2% CaCl/1/4 Celloflak
7 7/8"	K-55 5 1/2"	15.5	5746'	Class 'G' w/2% CaCl/1/4 Celloflak

SEE ATTACHED FOR 10 POINT DRILLING PLAN AND DETAILED DRILLING PROGRAM

CONFIDENTIAL

SEP 10 1993

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 location and measured and true vertical depths. Give blowout preventer program, if any.

24. Ray A. Wells TITLE Operations Manager DATE 3-2-92

(This space for Federal or State office use)

PERMIT NO. 43-037-31727 APPROVAL DATE _____

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

APPROVED BY _____ TITLE _____ DATE _____

***See Instructions On Reverse Side**

CHUSKA ENERGY COMPANY

10 POINT DRILLING PLAN

Kokopelli 29I

Section 29, Township 41 South, Range 23 East

2380' FSL & 340' FEL

San Juan County, Utah

SURFACE FORMATION:

Geological name of surface formation: Morrison

ELEVATION:

Surface elevation is 4,703' GR/ 4,716 KB

ESTIMATED FORMATION TOPS

DEPTH	FORMATION	SUB-SEA ELEV.
389'	Navajo	+4327'
1239'	Chinle	+3477'
2339'	DeChelly	+2377'
2564'	Organ Rock	+2152'
3378'	Cedar Mesa	+1338'
4395'	Hermosa	+ 321
5350'	Upper Ismay	- 634'
5466'	Lower Ismay	- 750' Secondary
5546'	Desert Crk	- 830' Primary
5746'	Akah	-1030'
5816'	TD	-1100'

4. PROPOSED CASING/CEMENTING PROGRAM

	DEPTH	SIZE	WEIGHT	GRADE	COUPLING
SURFACE	500'	8 5/8"	24.0 ppf	K-55	STC
PROD.	5746'	5 1/2"	15.5 ppf	K-55	STC

SURFACE CEMENTING:

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

PRODUCTION CEMENTING:

First Stage

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

SECOND STAGE

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

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

5. BLOWOUT PREVENTER (SEE ATTACHED SCHEMATICS)

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

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

6. PROPOSED MUD PROGRAM

Surface to 3500'

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

3500' to TD

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

7. AUXILIARY EQUIPMENT

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

8. WELL EVALUATION

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

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

9. ABNORMAL PRESSURES/GAS

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

10. TIMING

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

DETAILED DRILLING PROGRAM

DATE: February 28, 1992

WELL NAME: Kokopelli WELL NO.: 29I

LOCATION: Section 29, T41 South, R23 East
2380' FSL & 340' FEL
San Juan County, Utah

ELEVATION: 4,703'GR/4,716'KB

TOTAL DEPTH: 5816'KB

PROJECTED HORIZON: Primary Target is Desert Crk @ 5546'
Secondary Target is lower Ismay @ 5466'

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 ft³) of Class 'G' cement with 2% CaCl₂ 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 2,500 psig for 30 minutes. Pressure test manifold and all related equipment to 2500 psig. Pressure test casing to 1500 psig for 30 min.
7. Drill out surface casing with 7 7/8" bit. Drill 7 7/8" hole to TD. Deviation surveys are to be taken every 500' or on a bit trip, whichever occurs first. Maximum allowable deviation will be 5 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.

Kokopelli 29I
Section 29-T41S-R23E
2380' FSL & 340' FEL
San Juan County, Utah

GENERAL COMPLETION PROCEDURE:

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

PLUGGING AND ABANDONMENT:

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

Kokopelli 29I
Section 29-T41S-R23E
2380' FSL & 340' FEL
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. 2.4 miles of new access road will be constructed to reach the well pad location.

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/or Chuska Energy's yard 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
BARRY A. WIELAND

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.



BARRY A. WIELAND
OPERATIONS MANAGER

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

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

4. If Indian, Allottee or Tribe Name
Navajo Tribal

5. Unit Agreement Name
N/A

6. Farm or Lease Name

7. Well No.
Kokopelli 29I

8. Field and Foot, or Wildcat
Wildcat

9. 09, Sec., T., R., N., or S14,
and Survey or Area
Sec. 29, T41S, R23E

1. Type of Work
DRILL DEEPEN PLUG BACK

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

3. Name of Operator
Chuska Energy Company

4. Address of Operator
3315 Bloomfield Highway, Farmington, N.M. 87401 505-326-5525

5. Location of Well (Report location clearly and in accordance with any State requirements.)
At surface
2380' FSL, 340' FEL
At proposed prod. zone Same

14. Distance in miles and direction from nearest town or post office*
6.5 miles southwest of Montezuma Creek, Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drive line, if any)
apprx. 2000'

16. No. of acres in lease
49,997

17. No. of acres assigned to this well

18. Distance from proposed location to nearest well, drilling, completed, or applied for, on this lease, ft.
apprx. 3 mi.

19. Proposed depth
5816'

20. Rotary or cable tool
Rotary

21. Elevations (Show whether DF, RT, GR, etc.)
4703' GR / 4716' KB

22. Approx. date work will start*
March, 1992

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
12 1/4"	K-55 8 5/8"	24.0	500'	Class 'G' w/2% CaCl/1/4 Celloflake
7 7/8"	K-55 5 1/2"	15.5	5746'	Class 'G' w/2% CaCl/1/4 Celloflake

See attached for 10 point drilling plan and detailed drilling program

CONFIDENTIAL

R649-3-3
ELM Approved
4-30-92

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

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

Signature: HARRY A. WIELAND Title: OPERATIONS MANAGER Date: 5-26-93

(This space for General or State office use)

APP. NO. 43-037-31727 Approval Date _____

Approved by _____ Title _____ Date _____

Conditions of approval, if any: _____

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, NM 87401 505-326-5525

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

2380' FSL & 340' FEL
Section 29-T41S-R23E

5. Lease Designation and Serial No.

8702-1116

6. If Indian, Allotment or Tribe Name

Navajo Tribal

7. If Unit or CA, Agreement Designation

N/A

8. Well Name and No.

Kokopelli 29I

9. API Well No.

10. Field and Pool, or Exploratory Area

Wildcat

11. County or Parish, State

San Juan County, UT

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 Spud & Surface 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

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

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 depths for all markers and zones pertinent to this work.)

Subsequent Report

Aztec Rig No. 222 spudded Kokopelli 29I well @ 7:30 PM, 10-16-92, with 12 1/4" bit and set 8 5/8" surface csg @ 431.5'. Surface casing was cemented with 325 sx Cl "G" cement by Dowell Service Company @ 1:00 AM, 10-17-92.

SEP 10 1993

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

Signed

D. H. Wickham

Title

Operations Manager

Date

10-16-92

(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

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

6. Lease Designation and Serial Number
NOG 8702-1116

7. Indian Allottee or Tribe Name
NAVAJO TRIBAL

8. Unit or Communitization Agreement
N/A

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. 87401

4. Telephone Number
505-326-5525

5. Location of Well
Footage : 2380' FSL, 340' FEL
Co. Sec. T., R., M. : Sec. 29, T41S, R23E

9. Well Name and Number
Kokopelli 29I

10. API Well Number
43001-31727

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 Spud & Surface Csg

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 _____

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.)

Larry A. Chambers, Chuska Energy Company, notified Mark Kelley, BLM, on recording @ 9:45 A.M., 10-15-92, of intent to spud the Kokopelli 29I well @ 1:00 P.M. on 10-16-92, with 12 1/4" bit and set 8 5/8" surface csg @ +/- 425' and cement w/ +/- 325 sx C1 'G' cement @ 6:00 A.M., 10-17-92.

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

Name & Signature [Signature] BARRY A. WIELAND Title OPERATIONS MANAGER Date 5-27-93

(State Use Only)

SEP 10 1993

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

6. Lease Designation and Serial Number
NOG 8702-1116

7. Indian Allottee or Tribe Name
NAVAJO TRIBAL

8. Unit or Communitization Agreement
N/A

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 Hwy, Farmington, N.M. 87401

4. Telephone Number
505-326-5525

5. Location of Well
Footage : 2380' FSL & 340' FEL County : San Juan
Co. Sec. T., R., M. : Sec. 29, T41S, R23E State : UTAH

9. Well Name and Number
Kokopelli 29I

10. API Well Number

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 & Surface Casing

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.)

Aztec Rig No. 222 spudded Kokopelli 29I well @ 7:30 P.M., 10-16-92, with 12 1/4" bit and set 8 5/8" surface csg. @ 436.0'. Surface casing was cemented with 325 sx C1 'G' cement by Dowell Service Company @ 1:00 A.M., 10-17-92.

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

Name & Signature B. A. Wieland BARRY A. WIELAND Title OPERATIONS MANAGER Date 5-27-93

(State Use Only)

SEP 10 1993

NOV 1992
RECEIVED

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. 2004-0135
Expires March 31, 1993

3. Lease Designation and Subst No.
NOG 8702-1116
6. If Indian, Allotment or Tribal Name

Navajo
7. If Unit or CA, Agreement Designation

SUBMIT IN TRIPLICATE

1. Type of Well

Oil Well Gas Well Other

SEP 10 1993

N/A
8. Well Name and No.

Kokopelli 29I

2. Name of Operator

Chuska Energy Company

9. API Well No.

3. Address and Telephone No.

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

10. Field and Pool, or Exploratory Area
Wildcat

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

2380' FSL & 340' FEL

11. County or Parish, State

San Juan County, UT

29-415-23E

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 checked="" type="checkbox"/> Other P&A
	<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 % Completion or Resumption 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 PROGRAM:

The Kokopelli 29-I well will be plugged with the following program on 10-29-92 with Dowell Class 'G' Cement (yield=1.18 cft/sx) at approximately 10 PM, 10-29-92, with Aztec Rig No. 222. P&A program was approved by Ken Townsend, BLM, at 1:45 PM, 10-29-92. Plans submitted by Larry A. Chambers, Operations Engineer.

Plug#	Setting Depth	Formation	%Excess	No. Sacks
1	5331-5765	Akah, DC, IS	100	280
2	4364-4464	Hermosa	100	95
3	2379-2479	DeChelly	100	115
4	1354-1454	Chinle	100	105
5	377-513	Navajo, Shoe	100	125
6	0-50	Surface	50	30

RECEIVED
BLM
NOV 11-2-92

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

[Signature] Title **Operations Manager**

(This space for Federal or State office use)

Approved by _____
Conditions of approval, if any:

Title _____ Date _____

OPERATOR

APPROVED

This is U.S.C. Section 1091, which is a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

NOV 23 1992

*See instruction on Reverse Side

AREA MANAGER

UNITED STATES DEPARTMENT OF THE INTERIOR

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

Attachment to Notice of

Re: Permanent Abandonment

Intention to Abandon

Well: Kokopelli-295

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) 577-8907
3. Blowout prevention equipment is required.
4. The following modifications to your plugging program are to be made (when applicable):

SEP 10 1993

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

SEP 10 1993

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 CaCl₂ 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 perms-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.

NOT RECORDED

8. Within 30 days after plugging work is completed, file a Sundry Notice (Subsequent Report of Abandonment, Form 3160-5), in quintuplicate with Area Manager, Bureau of Land Management, 1235 La Plata Highway, Farmington, NM 87401. The report should give in detail the manner in which the plugging work was carried out, the extent (by depths) of cement plugs placed, and the size and location (by depths) of casing left in the well. Show date well was plugged.

9. All permanently abandoned wells are to be marked with a regulation marker (4" pipe extending 4' above the ground line) containing the information as specified in 43 CFR 3162.6(d). Unless otherwise approved.

10. After plugging work is completed the surface is to be rehabilitated in accord with instructions from the Fluids Surface Management Section of the Farmington Resource Area Office.

All above are minimum requirements. The period of liability under the bond of record will not be terminated until the lease is inspected and surface work approved.

Please advise this office when the well location is ready for final inspection.

Failure to comply with the above conditions of approval may result in an assessment for noncompliance and/or a Shut-in Order being issued pursuant to 43 CFR 3163.1.

You are further advised that any instructions, orders or decisions issued by the Bureau of Land Management are subject to administrative review pursuant to 43 CFR 3165.3 and appeal pursuant to 43 CFR 3165.4 and 43 CFR 4.700.

SEP 10 1993



UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

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

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

5. Lease Designation and No.
NOG 8702-1116

6. If Indian, Allotment or Indian Name
Navajo

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

8. Well Name and No.
Kokopelli 29I

9. API Well No.

10. Field and Pool, or Exploratory Area
Wildcat

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

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)
2380' FSL & 340' FEL

29-415-23E

SEP 10 1993

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"/> Plug and Seal
	<input type="checkbox"/> Casing Loss
	<input type="checkbox"/> Altering Casing
	<input checked="" type="checkbox"/> Other P&A
	<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 completions or Completion or Recompletion Report and Log for)

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 PROGRAM:

The Kokopelli 29-I well was plugged with the following program on 10-29-92 with Dowell Class 'G' Cement (yield=1.18 cft/sx). Aztec Rig No. 222 was release on 10-30-92 at 5:00 AM after final plug was pumped. P&A program was approved by Ken Townsend, BLM, at 1:45 PM, 10-29-92. Plans submitted by Larry A. Chambers, Operations Engineer.

Approved as to plugging of the well
Liability under bond is retained until

Plug#	Setting Depth	Formation	\$Excess	No. Sacks
1	5331-5765	Akah, DC, IS	100	280
2	4364-4464	Hermosa	100	95
3	2379-2479	DeChelly	100	115
4	1354-1454	Chinle	100	105
5	377-513	Navajo, Shoe	100	125
6	0-50	Surface	50	30

RECEIVED
 BLM
 92 NOV -4 PM 3:20
 19 FARMINGTON, NM

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

[Signature] Title **Operations Manager** Date **11-2-92**

(This space for Federal or State office use)

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

APPROVED

*See instruction on Reverse Side

OPERATOR

AREA MANAGER

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

SUBMIT IN DUPLICATE

(N. for instructions and reverse side)

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

7. LEASE DESIGNATION AND SERIAL NO.

NOG 8702-1116

8. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

N/A

8. FARM OR LEASE NAME, WELL NO.

Kokopelli 29I

9. API WELL NO.

10. FIELD AND POOL OR WILDCAT

Wildcat

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

Sec 29-41S-23E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

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

1. TYPE OF COMPLETION: NEW WELL WORK OVER DEEP-EN PLUG BACK DIFF. REGRV. 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 (Report location clearly and in accordance with any State requirements)*
At surface 2380' FSL & 340' FEL
At top prod. interval reported below Same
At total depth _____

14. PERMIT NO. SEP 10 1993 DATE ISSUED

15. DATE SPCCED 10-16-92 16. DATE T.D. REACHED 10-27-92 17. DATE COMPL. (Ready to prod.) P&A 10-29-92 18. ELEVATIONS (DP, RKB, RT, GB, ETC.)* 4703' GR/4716' KB 19. ELEV. CASINGHEAD Same

20. TOTAL DEPTH, MD & TVD 5765' MD & TVD 21. PLUG BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY ROTARY TOOLS YES CABLE TOOLS _____

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 BHC Sonic, DLL-Micro SFL, CNL-FDL Litho Density 27. WAS WELL CORED Yes

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	24.0	436	12 1/4	325 sx Cl 'G' & 2% CaCl2	1/4# Cellofla

29. LINER RECORD 30. TUBING RECORD

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

31. PREPARATION 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	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 [Signature] TITLE Operations Manager DATE 11-3-92

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

October 1990 0789012
 193037
 1002

UNIT STATES
 DEPARTMENT OF THE INTERIOR
 BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

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

3. LEASE RESIGNATION AND SERIAL NO.
 NOG 8702-1116

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 Navajo

7. UNIT AGREEMENT NAME
 N/A

8. FARM OR LEASE NAME, WELL NO.
 Kokopelli 29I

9. API WELL NO.

10. FIELD AND POOL, OR WILDCAT
 Wildcat

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA
 Sec 29-41S-23E

12. COUNTY OR PARISH
 San Juan

13. STATE
 Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

2. TYPE OF COMPLETION: NEW WELL REWORK DEEPEN PLUG BACK REPERM. 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 (Report location clearly and in accordance with any state requirements)*
 At surface 2380' PSL & 340' FEL
 At top prod. interval reported below Same
 At total depth Same

SEP 10 1993

14. PERMIT NO. DATE ISSUED

15. DATE SPECED 10-16-92 16. DATE T.D. REACHED 10-27-92 17. DATE COMPL. (Ready to prod.) P&A 10-29-92 18. ELEVATIONS (SW, NE, SE, NW, etc.)* 4703' GR/4716' KB 19. ELEV. CASINGHEAD Same

20. TOTAL DEPTH, MD & TVD 5765' MD & TVD 21. PLUG BACK T.D., MD & TVD 22. IF MULTIPLE COMPL. HOW MANY* 23. INTERVALS DRILLED BY ROTARY TOOLS CABLE TOOLS Yes

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

CONFIDENTIAL

26. TYPE ELECTRIC AND OTHER LOGS RUN BHC Sonic, DLL-Micro SFL, CNL-FDL Litho Density 27. WAS WELL CORED Yes

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	24.0	436	12 1/4	325 sx Cl 'G' & 2% CaCl2	1/4# Cellofla

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 (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	CHOKED SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

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

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

35. LIST OF ATTACHMENTS

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

SIGNED: [Signature] TITLE: Operations Manager DATE: 11-3-92

ACCEPTED FOR RECORD

*(See Instructions and Spaces for Additional Data on Reverse Side) NOV 23 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 the jurisdiction of the agency.

OPERATOR

BY [Signature]

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
Navajo Tribal

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME

9. WELL NO.
Kokopelli 29I

10. FIELD AND POOL OR WILDCAT
Wildcat

11. SEC. T. R. M. OR BLOCK AND SURVEY OR AREA
Sec. 29, T41S, R23E

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

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

3. NAME OF OPERATOR
Chuska Energy Company

4. ADDRESS OF OPERATOR
3315 Bloomfield Hwy. Farmington, N.M. 87401 505-326-5525

5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)
At surface 2380' FSL & 340' FEL
At top prod. interval reported below Same
At total depth _____

SEP 10 1993

14. API NO. 43-037-31727 DATE ISSUED _____ 12. COUNTY San Juan 13. STATE Utah

15. DATE SPUDDED 10-16-92 16. DATE T.D. REACHED 10-27-92 17. DATE COMPL. (Specify in Prod. Log) P&A 10-29-92 (Plug & Aband.) 18. ELEVATIONS (SP. SER. AT. CR. ETC.) 4703' GR/4716' KB 19. ELEV. CASINGHEAD Same

20. TOTAL DEPTH, MD & TVD 5765' MD & TVD 21. PLUG BACK T.D. MD & TVD _____ 22. IF MULTIPLE COMPL. HOW MANY _____ 23. INTERVALS DRILLED BY _____ 24. ROTARY TOOLS USED Yes 25. CABLE TOOLS _____

26. PRODUCING INTERVAL(S). OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)
None 43-037-31727 27. WAS DIRECTIONAL SURVEY MADE Yes

28. TYPE ELECTRIC AND OTHER LOGS LOG
BHC Sonic, DLL-Micro SFL, CNL-FDL Litho Density 29. WAS WELL CORED YES NO (Specify material) Yes
DRILL STEM TEST YES NO (Specify number of tests)

30. 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	24.0	436	12 1/4	325 sx Cl'G' & 2% CaCl2 & 1/4# Celloflake	

31. LINER RECORD

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

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 abandoned)

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

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

35. LIST OF ATTACHMENTS

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

SIGNED [Signature] TITLE OPERATIONS MANAGER DATE 5-27-93
HARRY A. WIELAND

See Spaces for Additional Data on Reverse Side

INSTRUCTIONS

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

ITEM 18: Indicate which elevation is used as reference for depth measurements given in other spaces on this form and on any attachments.
 ITEMS 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

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

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

37. SUMMARY OF POROUS ZONES

Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut in pressures, and recoveries.

Formation	Top	Bottom	Description, contents, etc.
Whole Core	#15602'	5662'	Desert Creek: DoI & LS
	#25662'	5717'	Desert Creek: DoI & LS
Side Wall Core	5591	5621	
	5595	5638	
	5596	5645	
	5597	5665	
	5598		
	5599		
5600			
P&A 10-29-92			
Plug #1	5331'	5765'	280 sxs Cl 'G' yield (1.15 cfs/sx)
Plug #2	4364'	4464'	95 sxs
Plug #3	2379'	2479'	115 sxs
Plug #4	1354'	1454'	105 sxs
Plug #5	377'	513'	125 sxs
Plug #6	0'	50'	30 sxs

38. GEOLOGIC MARKERS

Name	Mens. Depth	Top	True Vert. Depth
Navajo. SS	463'		Same
Chinle	1314'		Same
DeChelly	2429'		Same
Hermosa	4414'		Same
Ismay	5381'		Same
Desert Creek	5966'		Same
Chimney Rock	5708'		Same
Akah	5726'		Same

10/22/93
api num: ✓
entity:
well name: ✓
operator:
field: Wildcat

31727 D E T A I L W E L L D A T A
prod zone: se twshp

menu: opt 00
range gr-gr
NESE

confidential flag: Y confidential expires: 11-29-93

alt addr flag:

*** application to drill, deepen, or plug back ***
lease number: NOG 8702-1116 lease type: Indian well type: Oil

surface loc: 2380' FSL, 340' FBL unit name:

prod zone loc: depth: 5816'

elevation: 4716' KB apd date: ~~5-26-93~~

*** completion information *** date recd: 4-30-92

spud date: compl date:

producing intervals: first prod:

bottom hole: 24hr water:

24hr oil: 24hr gas:

*** well comments:

BLM Approval date used

proposed zone: Ismay-Desert

auth code: 649-3-3 Creek

la/pa date:

total depth:

well status:

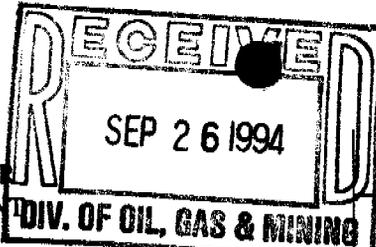
gas/oil ratio:

api gravity:

opt: 21 api: zone: date(yymm): enty acct:

CONFIDENTIAL

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT



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

Lease Designation and Serial No.
NOG 8707-1226

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

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 P&A

8. Well Name and No.
Kokopelli 27F 29I

2. Name of Operator

Harken Southwest Corporation

9. API Well No.
43-037-31727

3. Address and Telephone No.

P. O. Drawer 612007 - Dallas, TX 75261 (817) 695-4900

10. Field and Pool, or Exploratory Area
Wildcat

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

NE/SE Section 29-41S-23E
2380' FSL & 340' FEL

11. County or Parish, State
San Juan County, 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 type="checkbox"/> Other <u>Reclamation</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.)

Harken Southwest has filled in the reserve pit and restored the surface areas disturbed during drilling operations on the subject location.

Please be advised final reclamation and reseeding is scheduled for Thursday, September 29, 1994.

CC: BIA
Navajo Nation
State of Utah

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

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

Signed R. Montgomery Title Production Administrator Date 9/22/94

(This space for Federal or State office use)

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