

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED \_\_\_\_\_ SUB REPORT/abd. \_\_\_\_\_

DATE FILED 11-29-89

LAND FEE & PATENTED \_\_\_\_\_ STATE LEASE NO. \_\_\_\_\_ PUBLIC LEASE NO. \_\_\_\_\_ INDIAN I-109-IND-5351

DRILLING APPROVED 01-24-90

SPUDED IN: \_\_\_\_\_

COMPLETED: 3-2-93 LA PUT TO PRODUCING: \_\_\_\_\_

INITIAL PRODUCTION: \_\_\_\_\_

GRAVITY A.P.I. \_\_\_\_\_

GOR: \_\_\_\_\_

PRODUCING ZONES: \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_

WELL ELEVATION: \_\_\_\_\_

DATE ABANDONED: LAID Per BLM off. 3-2-93

FIELD: DUCHESNE

UNIT: \_\_\_\_\_

COUNTY: DUCHESNE

WELL NO. UTE TRIBAL 11-16D API NO. 43-013-31259

LOCATION 2169' FSL FT FROM (IN) (S) LINE. 1911' FWL FT. FROM (E) (W) LINE NESW 1/4 - 1/4 SEC. 16

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
				4S	4W	16	COORS ENERGY COMPANY

RECEIVED  
NOV 29 1989

DIVISION OF  
OIL, GAS & MINING



November 27, 1989

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

Attn: Mr. Ron Firth

Dear Mr. Firth:

Attached you will find a copy of the APD to drill the following well:

Ute Tribal 11-16D  
Section 16, T4S-R4W  
Duchesne County, Utah

If you find you have any questions or need further information, please write to me at the above address or call at (303) 278-7030.

Thank you for your consideration of this Application.

Very truly yours,

D. S. Sprague  
Manager, Engineering Services

DSS:kr  
Attachments

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING

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

1a. Type of Work DRILL  DEEPEN  PLUG BACK

b. Type of Well Oil Well  Gas Well  Other

2. Name of Operator  
Coors Energy Company

3. Address of Operator  
PO Box 467, Golden, Colorado 80402

4. Location of Well (Report location clearly and in accordance with any State requirements)  
At surface 1911' FWL, 2169' FSL, NE/SW  
At proposed prod. zone same

5. Lease Designation and Serial No.  
I-109-IND-5351

6. If Indian, Allottee or Tribe Name  
Ute Tribe

7. Unit Agreement Name  
----

8. Farm or Lease Name  
Ute Tribal

9. Well No.  
11-16D

10. Field and Pool, or Wildcat  
Duchesne (090)

11. 00, Sec., T., R., H., or Blk. and Survey or Area  
Sec. 16, T4S-R4W

12. County or Parrish  
Duchesne

13. State  
Utah

14. Distance in miles and direction from nearest town or post office\*  
3-1/2 miles southeast of Duchesne, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drig. line, if any) 2169'

16. No. of acres in lease 4150.06

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. 1133'

19. Proposed depth 6400' Green River

20. Rotary or cable tools rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
5916' GL surveyed

22. Approx. date work will start\*  
January, 1990

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
See attached drilling program				

**RECEIVED**  
NOV 29 1989  
DIVISION OF OIL, GAS & MINING

See attached application exhibits, multipoint and drilling program for details.

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

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

Signed D.S. Sprague Title Manager, Engineering Date 11-17-89

(This space for Federal or State office use)

API NO. 43-013-31259 Approval Date \_\_\_\_\_

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

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

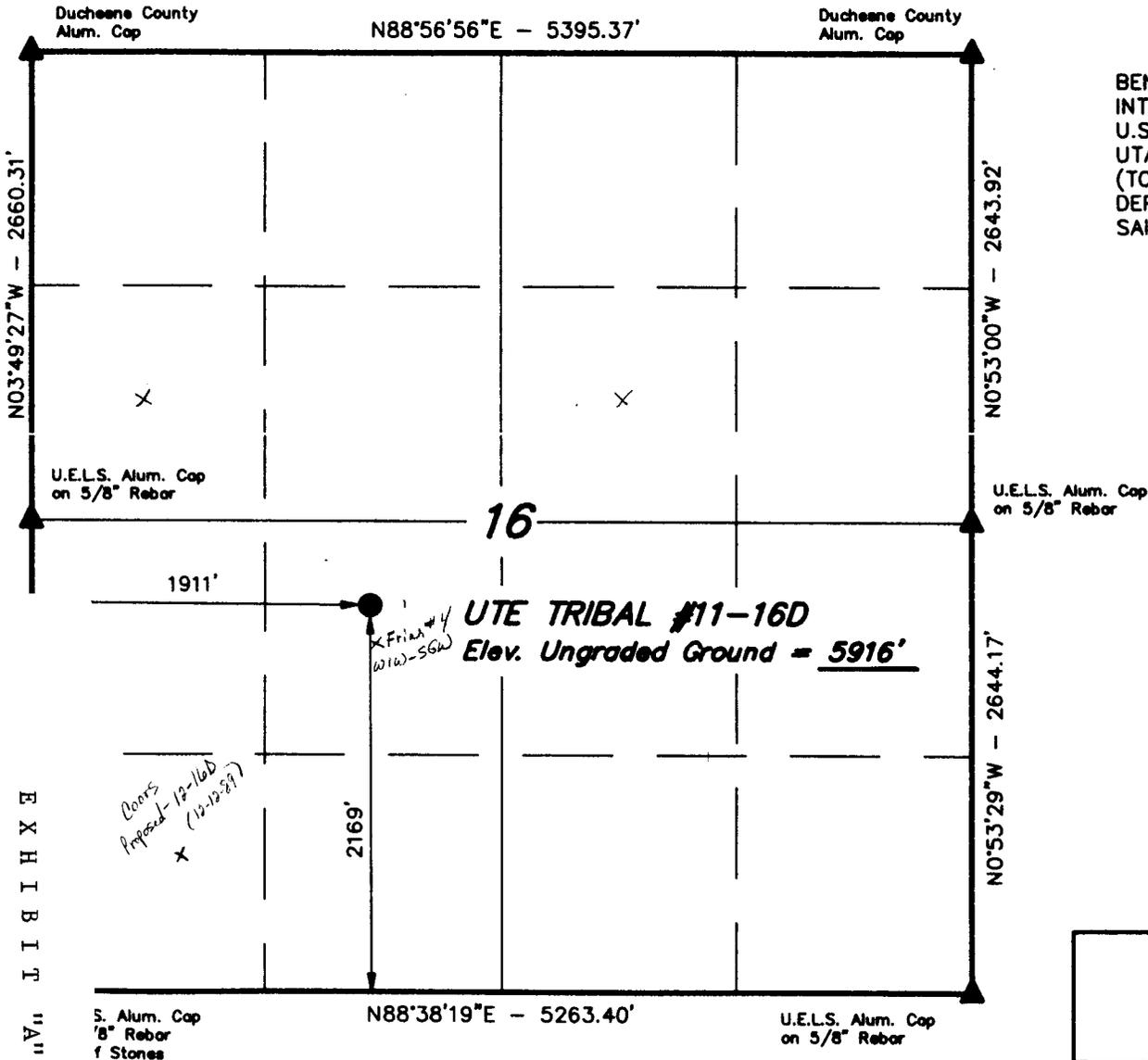
DATE: 1-24-90

BY: John R. Bass

WELL SPACING: 15-3-2

\*See Instructions On Reverse Side

T4S, R4W, U.S.B.&M.



**COORS ENERGY CO.**

Well location, UTE TRIBAL #11-16D, located as shown in the NE 1/4 SW 1/4 of Section 16, T4S, R4W, U.S.B.&M. Duchesne County, Utah.

**BASIS OF ELEVATION**

BENCH MARK M62 (1934) LOCATED NEAR A ROAD INTERSECTION IN THE SE 1/4 OF SECTION 17, T4S, R4W, U.S.B.&M., TAKEN FROM THE DUCHESNE NE QUADRANGLE, UTAH, DUCHESNE COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5872 FEET.



E X H I B I T "A"

**CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Kay*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 5709  
 STATE OF UTAH

**UINTAH ENGINEERING & LAND SURVEYING**  
 P. O. BOX 1758 - 85 SOUTH - 200 EAST  
 VERNAL, UTAH - 84078

SCALE 1" = 1000'	DATE 10-2-89
PARTY L.D.T. E.M. T.D.H.	REFERENCES FIELD MAP - G.L.O. PLAT
WEATHER COOL, CLEAR	FILE COORS ENERGY CO.

**BASIS OF BEARINGS**

BASIS OF BEARINGS IS THE UTAH STATE GRID, CENTRAL ZONE, ESTABLISHED FROM SOLAR OBSERVATIONS OF THE SUN.

SECTION CORNERS LOCATED.

EXHIBIT "A"

OPERATOR Coors Energy Company (N5090) DATE 11-30-89

WELL NAME Ute Tribal 11-16D

SEC NESW 16 T 4S R 4W COUNTY Duchesne

43-013-31259  
API NUMBER

Indian  
TYPE OF LEASE

CHECK OFF:

PLAT

BOND

NEAREST WELL

LEASE

FIELD (USM)

POTASH OR OIL SHALE

PROCESSING COMMENTS:

Nearest well 43-013-15321 (Friar Oil Co. 7 SW/W1W — see plat  
Water Permit #89-43-13 / A60177 (curry leasing)  
→ Coors Energy has not purchased this well, nor do they intend to.  
Proposed 11-16D - OW, 6400', GRRV / Friar #4 - SW/W1W, 2100', UNTA  
Archaeological Survey Received 12-15-89. (Received Friar Consent 1-22-90)

APPROVAL LETTER:

SPACING:  R615-2-3

N/A  
UNIT

R615-3-2

(Cause 139-54 Watch Prod. Only)

N/A  
CAUSE NO. & DATE

R615-3-3

STIPULATIONS:

CC: BIA



RECEIVED  
DEC 15 1989

DIVISION OF  
OIL, GAS & MINING

December 13, 1989

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

Attn: Mr. Ron Firth

Dear Mr. Firth:

Application to Drill the following wells was recently sent in to your office for approval:

Ute Tribal 11-16D  
Ute Tribal 12-16D

We are enclosing copies of the T&E Survey to include as part of the Application.

Please call us if you have any questions. Thank you for your consideration.

Very truly yours,

Karen Radcliffe  
Operations Secretary

KR  
Attachments

THREATENED AND ENDANGERED SPECIES SURVEY  
OF THREE PROPOSED WELL SITES

This Report Covers Well:

~~Ute Tribal 8-10D~~

Ute Tribal 11-16D

Ute Tribal 12-16D

PREPARED FOR

COORS ENERGY CO.  
P.O. BOX 467  
GOLDEN COLORADO 80402

PREPARED BY

PETER E. KUNG  
BIOLOGICAL CONSULTING  
P.O. BOX 16708  
COLORADO SPRINGS COLORADO 80935

November 17, 1989

THREATENED AND ENDANGERED SPECIES SURVEY  
OF THREE PROPOSED WELL SITES

On Oct. 25-26 1989 three proposed well sites and the access corridors leading to these wells were surveyed for listed and candidate Threatened and Endangered species. The survey was conducted for Coors Energy Co.

The three proposed well sites and access corridors were inspected for the presence of Threatened and Endangered (T & E) species and habitat components of potential value for these species. The seven T & E species searched for during the survey are peregrine falcon, bald eagle, whooping crane, black-footed ferret, Colorado River squawfish, the Uinta Basin hookless cactus, and Barneby peppergrass. In addition, seven species that are currently candidates for addition to the T & E species list were searched for: ferruginous hawk, Swainson's hawk, white-faced ibis, long-billed curlew, mountain plover, snowy plover, and razorback sucker.

The surveyed area at each well site was about 2.5 acres, large enough to include an undisturbed buffer zone around the proposed drill pad. The access corridor was surveyed for 25 feet either side of the proposed road centerline. The survey was conducted by walking back-and-forth over the proposed well site and access corridor such that all areas to be disturbed could be inspected. In addition, a search for raptor nests was conducted in all appropriate habitat within 0.25 miles of the proposed well site and within 0.10 miles of the proposed access corridor. Special attention was given to cliffs, large trees, and other

sites frequently used for nesting. During the survey, physical, floral, and faunal characteristics of the proposed site and access corridor were assessed. In addition to the usual well site and access corridor surveys, a proposed pipeline route from UT 1-3D to UT 8-10D (approx. 2000 ft.) was also thoroughly investigated.

No T & E species were observed, nor was there any sign (eg. tracks, feces, nests, burrows, etc.) that suggest such species had occurred on the sites surveyed in the recent past.

Data on the physical and floristic characteristics of the proposed wells and access corridors indicate that some appropriate habitat exists for the 14 species considered. Below, the potential for each species to occur on site is discussed.

**Colorado River Squawfish** - Not a possible inhabitant. This fish inhabits large rivers in the Uinta Basin such as the Green River and lower portion of the Duchesne River. It has never been recorded in small perennial streams such as those found near Duchesne, Utah. No appropriate habitat exists for this species in the areas surveyed.

**Razor-back sucker** - Not a possible inhabitant. This fish inhabits large rivers in the Uinta Basin such as the Green River and lower portion of the Duchesne River. It has never been recorded in small perennial streams such as those found near Duchesne, Utah. No appropriate habitat exists for this species in the areas surveyed.

**Whooping crane** - This species is a rare migrant over the Uinta Basin, stopping rarely to forage in plowed fields, wet

meadows, and marshland (e.g., Ouray Wildlife Refuge in 1976 and 1977, Pelican Lake, and Stewart Lake). Appropriate habitat exists for this species near the area surveyed, specifically along the Duchesne River. However, this bird's migration route takes it across a more eastern section of the Uinta Basin, almost eliminating its occurrence in this region. No appropriate habitat exists for this species in the areas surveyed.

**White-faced ibis** - This species is an uncommon to fairly common summer resident in the Uinta Basin, frequenting irrigated cropland, pastures, and marshes along flood plains of major rivers. White-faced ibis have been recorded from the Green River, Ashley Creek marsh, Pariette Wetlands, and Pelican Lake. Appropriate habitat exists for this species near the areas surveyed, specifically along the Duchesne River. Nevertheless, development and production will not interfere with this bird's productivity. No appropriate habitat exists for this species in the areas surveyed.

**Long-billed curlew** - This curlew is an uncommon to fairly common migrant in the Uinta Basin; no documented breeding records exist. On migration, it visits pastures, arid grassland, and shorelines. Most records are from the Pariette Wetlands, Jensen, Vernal, and Pelican Lake areas. Appropriate habitat exists for this species near the areas surveyed, specifically along the Duchesne River. Nevertheless, development and production of the wells will not interfere with this bird's migration. No appropriate habitat exists for this species in the areas surveyed.

**Mountain plover** - There are no documented records for this species in the western part of the Uinta Basin. Where it does

occur, it nests in open plains at moderate elevations. The pinyon-juniper and mixed desert shrub habitat, which is an important vegetation type in the region, is at best marginal habitat for mountain plovers. None are expected at these well sites.

**Snowy plover** - There are no documented records for snowy plovers in the western part of the Uinta Basin. These small plovers inhabit mudflats and alkali flats during both migration and the breeding season. No appropriate habitat exists for this species in the areas surveyed.

**Swainson's hawk** - This hawk is a fairly common summer resident in the Uinta Basin and it nests in deciduous trees in riparian woodlands, shelter-belts, and occasionally in scattered junipers. It forages widely, including shrubland and pinyon-juniper woodland. The most important breeding habitat in the region is the Duchesne River floodplain. The study site may be used occasionally for foraging and the nearby riparian woodland along the Duchesne River for nesting. Well development and production will not interfere with this hawk's productivity.

**Ferruginous hawk** - The ferruginous hawk is an uncommon to fairly common permanent resident in the Uinta Basin. It is usually found in open country (shrubland, grassland) but may be found in pinyon-juniper habitat as well. It usually nests on the ground or atop isolated pinyons or junipers and has been recorded near Myton, Pleasant Valley, and Roosevelt. This species could forage and nest in open, shrub-dominated vegetation types. Although it is not yet confirmed in this area as a nester, all

nests found during the previous surveys should be considered as possible future ferruginous hawk nest sites. Well development and production should be undertaken so as to minimize potential impacts to ferruginous reproductive efforts, typically March 1 to June 30.

**Bald eagle** - Bald eagles are fairly common to common winter visitors in the Uinta Basin, wintering primarily in deciduous riparian habitat and foraging widely during the day. Numerous individuals winter along the Duchesne River. Occasional sightings of bald eagles foraging near the proposed well site should be expected in winter. Well development and production will not interfere with this eagle's survival.

**Peregrine falcon** - Peregrine falcons are rare breeding residents in the Uinta Basin (e.g., Split Mountain at Dinosaur National Monument). They prefer deep canyons where they nest in the high, inaccessible cliffs. They forage widely. No good breeding sites exist for this species in the area surveyed. However, this species should be looked for as a rare migrant in the region.

**Black-footed ferret** - There are no published records of this ferret in the Uinta Basin although several unconfirmed sightings have been made east of Vernal and in the Pelican Lake area. Black-footed ferrets are thought to occur only in large prairie dog towns where they feed almost exclusively on prairie dogs. Although a prairie dog colony with active burrows was found during the survey near UT 11-16D, the present population density could not support a ferret. Current U.S. Fish and Wildlife Service "Black-footed Ferret Survey Guidelines" (4/89) were

followed. These guidelines establish minimum areas of prairie dog habitat (200 acres for white-tailed prairie dog towns) that the Service believes are needed to support a black-footed ferret. Although the prairie dog town located during the survey encompassed only approximately 7 acres, care was taken to examine all potentially affected burrows near the survey area for any ferret sign. None was expected or encountered.

**Uinta Basin hookless cactus** - This cactus occurs in arid shrubland, usually in the Green River geologic formation. Some specimens have been found in the Uinta Formation (e.g., the Synfuels Shale Oil Development site), however, no specimens have been recorded in pinyon-juniper woodland. No appropriate habitat exists for this species in the areas surveyed.

**Barneby peppergrass** - Barneby peppergrass (which is not a grass but a low-growing, perennial mustard) occurs on barren ridges in pinyon-juniper woodland. One confirmed and well documented population is located 3.5 miles southwest of Duchesne, north of Indian Canyon in Section 16, T4S R5W. No appropriate habitat exists near the proposed well sites and access corridors.

In summary, only a few of the 14 T & E species searched for are likely to occur in the areas surveyed, but none were actually encountered.

Specific descriptions of the proposed well sites and access corridors follow.

## SITE DESCRIPTION

SITE NAME: Ute-tribal #11-16D Access Road

SITE LOCATION: Sec 16 T4S R4W NE 1/4 SW 1/4

### PHYSICAL CHARACTERISTICS

Elevation: Approx. 5915 ft.  
Topography: Small side hill; southerly exposure  
Substrate: Silty loam, some shaley pavement  
Length: Approx. 125 ft.

### FLORAL CHARACTERISTICS

Habitat Type: Pinyon-Juniper  
Percent Ground Cover: 15% trees; 5% shrubs; <1% grass/forb  
Canopy Height: 8 ft. trees, 10 in. shrubs  
Dominant Shrubs and Trees (in Order of Abundance):  
Juniperus osteosperma, Artemisia nova, Pinus edulis,  
Chrysothamnus nauseosus, Sarcobatus vermiculatus,  
Atriplex confertifolia.

#### Common Forbs and Grasses:

Hilaria jamesii, Oryzopsis hymenoides

#### Miscellaneous:

Opuntia polyacantha, Halogeton glomeratus.

### FAUNAL CHARACTERISTICS

Vertebrates Observed On and Near Site: Least chipmunk,  
Horned lark, White-tailed prairie dog.

Wildlife Sign: Antelope tracks

Permanent Water: None

Observed Threatened and Endangered Species: None

Raptor Nests: None

Potential Threatened and Endangered Species: Passage of  
Swainson's and Ferruginous hawks, Bald eagle, and  
Peregrine falcons.

Potential Ecological Sensitivity: Low

OBSERVER: Peter E. Kung, B.S., Wildlife Biologist  
10/26/89, 10-25 mph gusty wind, 45 F, partly cloudy,  
dry

## SITE DESCRIPTION

SITE NAME: Ute-tribal #11-16D Well Site

SITE LOCATION: Sec 16 T4S R4W NE 1/4 SW 1/4

### PHYSICAL CHARACTERISTICS

Elevation: Approx. 5915 ft.

Topography: Small side hill; southerly exposure

Substrate: Silty loam, some shaley pavement

### FLORAL CHARACTERISTICS

Habitat Type: Pinyon-Juniper

Percent Ground Cover: 15% trees; 5% shrubs, <1% grass/forb

Canopy Height: 8 ft. trees, 10 in. shrubs

Dominant Shrubs and Trees (in Order of Abundance):

Juniperus osteosperma, Artemisia nova, Pinus edulis,  
Chrysothamnus nauseosus, Sarcobatus vermiculatus,  
Atriplex confertifolia.

Common Forbs and Grasses:

Hilaria jamesii, Oryzopsis hymenoides

Miscellaneous:

Opuntia polyacantha, Halogeton glomeratus.

### FAUNAL CHARACTERISTICS

Vertebrates Observed On and Near Site: Least chipmunk,  
Horned lark, White-tailed prairie dog.

Wildlife Sign: Antelope tracks

Permanent Water: None

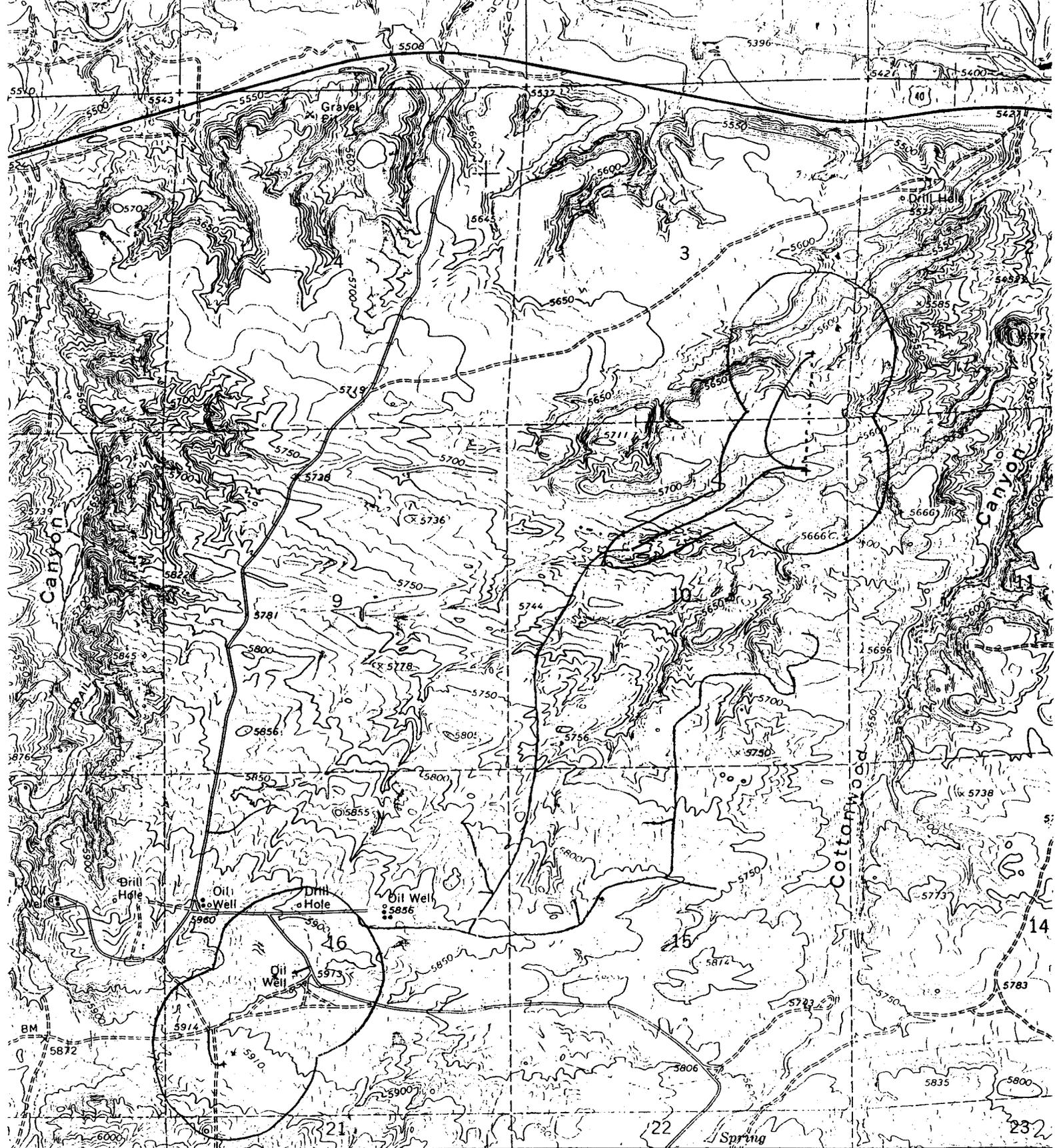
Observed Threatened and Endangered Species: None

Raptor Nests: None

Potential Threatened and Endangered Species: Passage of  
Swainson's and Ferruginous hawks, Bald eagle, and  
Peregrine falcons.

Potential Ecological Sensitivity: Low

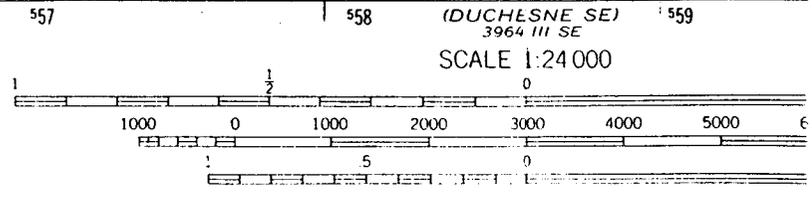
OBSERVER: Peter E. Kung, B.S., Wildlife Biologist  
10/26/89, 10-25 mph gusty wind, 45 F, partly cloudy,  
dry



1:250,000 FEET | 555 | 556 | 20' | 557 | 558 | (DUCHESNE SE) | 559

Geological Survey  
 Data from aerial  
 photo 1964  
 North American datum  
 UTM system, central zone  
 or grid ticks,

*Coors Energy*  
*TEE Survey*  
*10/24/89*



SCALE 1:24000  
 CONTOUR INTERVAL 10 FEET  
 DOTTED LINES REPRESENT 5-FOOT CONTOURS  
 DATUM IS MEAN SEA LEVEL

1900' FWL

Coors Energy proposed U.T. #11-16D well  
1911' FWL, 2169' FSL  
Sec. 16, T. 4S, R. 4W

201.70'

Frior Oil Corp. U.T. # 4 well  
1980' FWL, 1980' FSL  
Section 16, T. 4S, R. 4W

1900' FSL

Scale: 1" = 40 ft.

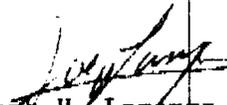
Friar Oil Corporation  
January 3, 1990  
Page 2

Please indicate your acceptance of our proposed location for the Ute Tribal 11-16D well below and return one copy of this letter to the undersigned in the enclosed self-address, stamped envelope.

Thank you in advance for your cooperation with us in this regard.

Very truly yours,

COORS ENERGY COMPANY

  
Joseph H. Lorenzo  
Senior Landman

JH lp  
PO S. Church  
D. Sprague

Enclosure

ACCEPTED THIS 16 DAY OF JANUARY, 1990.

FRIAR OIL CORPORATION

By: Brent Rushton

Title: PRESIDENT





TELECOPY TRANSMITTAL COVER SHEET

DATE: 1/22/90

*To complete  
APD  
Ute 11-16D*

PAGE 1 OF 3 (INCLUDING COVER PAGE)

TO: Lisha Romero  
State of Utah

FROM: Karen Radcliffe

MAILING ADDRESS

PHYSICAL ADDRESS

COORS ENERGY COMPANY  
P.O. Box 467  
Golden, CO 80402  
(303) 278-7030

COORS ENERGY COMPANY  
14062 Denver West Parkway  
Bldg. 52, Suite 300  
Golden, CO 80401

Type of Machine: 2123 Facsimile - Harris/3M

Telecopier No. (303) 279 6087

Verification No. (303) 278 7030 Ext. 223 or 219



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

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

January 24, 1990

Coors Energy Company  
P. O. Box 467  
Golden, Colorado 80402

Gentlemen:

Re: Ute Tribal 11-16D - NE SW Sec. 16, T. 4S, R. 4W - Duchesne County, Utah  
2169' FSL, 1911' FWL

Approval to drill the referenced well is hereby granted in accordance with Rule R615-3-2, Oil and Gas Conservation General Rules.

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

1. Spudding notification within 24 hours after drilling operations commence.
2. Submittal of an Entity Action Form within five working days following spudding and whenever a change in operations or interests necessitates an entity status change.
3. Submittal of the Report of Water Encountered During Drilling, Form 7.
4. Prompt notification if it is necessary to plug and abandon the well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or Jim Thompson, Lead Inspector, (Home) 298-9318.
5. Compliance with the requirements of Rule R615-3-20, Gas Flaring or Venting, Oil and Gas Conservation General Rules.
6. Prior to commencement of the proposed drilling operations, plans for facilities for disposal of sanitary wastes at the drill site shall be submitted to the local health department. These drilling operations and any subsequent well operations must be conducted in accordance with applicable state and local health department regulations. A list of local health departments and copies of applicable regulations are available from the Division of Environmental Health, Bureau of General Sanitation, telephone (801) 538-6121.

Page 2  
Coors Energy Company  
Ute Tribal 11-16D  
January 24, 1990

7. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-013-31259.

Sincerely,



R. L. Birth  
Associate Director, Oil & Gas

lcr  
Enclosures  
cc: Bureau of Land Management  
Bureau of Indian Affairs  
D. R. Nielson  
J. L. Thompson  
WE14/1-2

# memorandum

JAN 23 1990

DATE:

REPLY TO  
ATTN OF:

*Boatman*

Superintendent, Uintah and Ouray Agency

SUBJECT:

Coors Energy Company: Ute Tribal 11-16D  
Sec. 16-T4S-R4W

TO:

Bureau of Land Management, Vernal District Office  
Attention: Mr. Ralph Brown



Based on the available information received in this office, we concur with the Application for Permit to Drill on the subject well.

Mineral ownership belongs to the Ute Indian Tribe, while the surface is under private ownership.

If you have any questions, please contact this office at (801) 722-2406, ext. 48/54.

*Roger J. Brown*

MAR 11 1990

OFFICE OF  
LAND MANAGEMENT

MAR 11 1990

CONDITIONS OF APPROVAL FOR NOTICE TO DRILL  
WITHIN THE UINTAH OURAY RESERVATION

Company: COORS ENERGY COMPANY Well No. 11-16D  
Location: NE/SW Sec. 16, T4S, R4W Lease No. 1-109-IND-5351

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

A. DRILLING PROGRAM

1. Casing Program and Auxiliary Equipment

Surface casing shall have centralizers on every fourth joint of casing, starting with the shoe joint and up to the bottom of the cellar.

Usable water may be encountered from +50 - 200 ft. and +725 - 883 ft. in the Uinta Formation and from +883 - 1325 ft., +1730 - 1930 ft., and +2825 - 3325 ft. in the Green River Formation. The Mahogany oil shale and L1 oil shale have been identified from +3283 - 3483 ft. and +3548 - 3643 ft., respectively. Therefore, the resources will be isolated and/or protected via the cementing program for the intermediate casing by having a cement top for the intermediate casing at least 200 ft. above the oil shale.

2. Coring, Logging, and Testing Program

All Drill Stem Tests (DST) shall be accomplished during daylight hours, unless specific approval to start during other hours is obtained from the Authorized Officer. Packers can be released, but tripping should not begin before daylight unless prior approval is obtained from the Authorized Officer.

A cement bond log (CBL) shall be utilized to determine the top of cement (TOC) for the intermediate and production casing. The CBL is to be run without any additional pressure applied to the casing.

RECEIVED  
MAR 12 1990

DIVISION OF  
OIL, GAS & MINERAL

CONDITIONS OF APPROVAL  
FOR THE SURFACE USE PROGRAM OF THE  
APPLICATION FOR PERMIT TO DRILL

Company/Operator COORS ENERGY CO.  
Well Name & Number Ute Tribal 11-16D  
Lease Number I-109-IND-5351  
Location NE4 SW4 Sec. 16 T. 4S R. 4W  
Surface Ownership Private

B. SURFACE USE PROGRAM

1. Additional Information

Drilling rigs and/or equipment used during drilling operations on this well site will not be stacked or stored on Federal Lands after the conclusion of drilling operations without BLM authorization.

A copy of these conditions will be furnished to the field representative to ensure compliance.

The dirt contractor will be provided with an approved copy of the Surface Use Plan from the APD.

If a tank battery is constructed on this lease, the battery or the well pad will be surrounded by a dike of sufficient capacity to contain, at a minimum, the entire content of the largest tank within the facility/battery.

All pits will be fenced according to the following minimum standards:

- a. 39-inch net wire shall be used with at least one strand of barbed wire on top of the net wire (barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence).
- b. The net wire shall be no more than 2-inches above the ground. The barbed wire shall be 3-inches above the net wire. Total height of the fence shall be at least 42-inches.
- c. Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- d. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any two posts shall be no greater than 16 feet.
- e. All wire shall be stretched, using a stretching device, before it is attached to the corner posts.

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 Coors Energy Company

3. ADDRESS OF OPERATOR  
 PO Box 467, Golden, Colorado 80402

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
 At surface  
 1911'FWL, 2169'FSL, NE/SW  
 At proposed prod. zone  
 same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 approximately 3-1/2 miles southeast of Duchesne, Utah

15. DISTANCE FROM PROPOSED\*  
 LOCATION TO NEAREST  
 PROPERTY OR LEASE LINE, FT.  
 (Also to nearest drlg. unit line, if any)  
 2169'

16. NO. OF ACRES IN LEASE  
 4150.06

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.  
 1133'

19. PROPOSED DEPTH  
 6400'

20. ROTARY OR CABLE TOOLS  
 rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 5916'GL surveyed

22. APPROX. DATE WORK WILL START\*  
 January, 1990

5. LEASE DESIGNATION AND SERIAL NO.  
 T-109-IND-5351  
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
 Ute Tribe  
 7. UNIT AGREEMENT NAME  
 ----  
 8. FARM OR LEASE NAME  
 Ute Tribal  
 9. WELL NO.  
 11-16D  
 10. FIELD AND POOL, OR WILDCAT  
 Duchesne  
 11. SEC., T., R., M., OR BLK.  
 AND SURVEY OR AREA  
 Sec. 16, T4S-R4W  
 12. COUNTY OR PARISH  
 Duchesne  
 13. STATE  
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
See attached drilling program				

See attached application exhibits, multipoint and drilling program for details.

Change on page 2 of drilling program.

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. SIGNED D.S. Sprague TITLE Manager, Engineering DATE 11-17-89

(This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE 3/8/90  
 APPROVED BY [Signature] TITLE ASSISTANT DISTRICT MANAGER MINERALS  
 CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

\*See Instructions On Reverse Side

GREEN RIVER FORMATION - DUCHESNE  
DUCHESNE COUNTY, UTAH  
DRILLING PROGRAM  
Ute Tribal 11-16D  
Section 16, T4S-R4W, NE/SW  
Duchesne County, Utah  
Lease No. I-109-IND-5351

Approval of this application does not warrant or certify that Coors Energy holds legal or equitable title to those rights in the subject lease which would entitle Coors Energy to conduct operations thereon.

All lease operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR Part 3160), Onshore Oil and Gas Orders, and the approved plan of operations. Coors Energy is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished to Jim Simonton, Coors Energy Field Supervisor, to ensure compliance.

DRILLING PROGRAM

The duration of drilling operations for this well will be approximately 10 days.

1. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones are Expected to be Encountered.

This well will be spudded in the Uintah Formation. Oil and gas is expected in the Green River Formation. No aquifers or other mineral zones are anticipated. The following formation tops and their estimated depths are expected to be encountered in the drilling of this well.

Tgrudc 5155', Base B Lime 5610', Castle Peak 6135', TD 6400'.

Fresh water may be encountered at depths of + 200-600' and + 900-1100' in the Uintah Formation, and from + 1300-1600', + 3400-3700' and + 6500-6900' in the Green River Formation.

The Mahogany oil shale zone has been identified from + 3411-3611'. Therefore, the above resources will be isolated and/or protected via the cementing program for the production casing by having a cement top for the production casing at least 200 feet above the oil shale.

Coors Energy will report ALL water shows and water-bearing sands to Tim Ingwell of the BLM, Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If noticeable water flows are detected, Coors Energy will submit samples to the BLM, Vernal, along with any water analyses conducted.

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

2. Pressure Control Equipment, See Exhibit "J"

Coors Energy's pressure control equipment will consist of 3000 psi double rams and an annular preventer. The BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment specifications and testing procedures. See Exhibit "J" - Blowout Prevention Equipment (diagram on front side of exhibit) and the configuration drawing of 3M Choke Manifold Equipment on the backside of the Exhibit.

Ram preventers will be tested to a minimum of 70% of the internal yield of the casing. Annular preventers will be tested to 50% of internal yield of casing. Pressures will be maintained at least 10 minutes.

Tests will be conducted when initially installed, following repairs and at 30-day intervals. Tests will be done prior to drilling out from under all casing strings cemented in place.

Rams will be operated at least daily and recorded on daily drilling reports.

Well control equipment will also consist of a float run in the drill string, and a full opening valve to fit the drill string will be on the rig floor at all times. Kelly cock valves will be used.

No abnormal temperature, pressures or potential hazards are expected. Maximum expected BHP is 2800 psi.

Coors Energy will notify the Vernal District Office with sufficient lead time in order to have a BLM OA present to witness pressure testing.

3. Casing Program and Auxiliary Equipment

Coors Energy will use the following casing and cementing program for this well:

<u>SIZE OF HOLE</u>	<u>SIZE OF CASING</u>	<u>LBS/FOOT</u>	<u>SETTING DEPTH</u>	<u>QUANTITY OF CEMENT</u>
12-1/4"	8-5/8"	24.00#	400'	300 sks.
7-7/8"	5-1/2"	15.50#	6400'	1600 sks.

All casing is new with 8-round threads. All casing strings below conductor will be pressure tested to 0.22 psi per foot of setting depth or 1500 psi, whichever is greater, but not to exceed 70% of internal yield.

Coors Energy will notify the Vernal District Office, with sufficient lead time, in order to have a BLM representative on location while running all casing strings and cementing.

#### 4. Mud Program and Circulating Medium

The proposed circulating medium will be 3% KCL water or be brine water with additives as needed to control mud properties and bottom hole pressures.

No chromate additives will be used in the mud system on Federal and Indian lands without prior BLM approval to ensure adequate protection of fresh water aquifers.

Mud properties will be checked daily to ensure an adequate mud system is maintained.

#### 5. Coring, Logging and Testing Program

Coors Energy will send drilling and completion progress reports to the Vernal District Office on a timely basis.

Sidewall coring & drill stem tests may be run in potential pay zones. DLL (Dual Laterolog) will be run from TD to surface casing, a D-N (Density Neutron) log will be run from TD to 2000'. A Dipmeter log is optional and would be a minimal run. Coors Energy reserves the right to change the logging program.

Any Drill Stem tests (DST) that may be run, shall be accomplished during daylight hours. However, DSTs may be allowed to continue at night if the test was initiated during daylight hours and the rate of flow is stabilized and if adequate lighting is available (i.e., lighting which is adequate for visibility and vaporproof for safe operations). Packers can be released, but tripping should not begin before daylight.

A cement bond log (CBL), or some other means acceptable to the authorized officer, shall be utilized to determine the top of cement (TOC) for the intermediate and production casing.

Whether the well is completed as a dry hole or as a producer, a "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Copies of electric logs, core descriptions and analyses will be filed with Form 3160-4. If any further information is requested, it will be submitted when requested by the authorized officer (AO).

#### 6. Notifications of Operations

No locations will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the AO. If operations are to be suspended, prior approval of the AO will be obtained and notification given before resumption of operations.

Coors Energy will report the spud date orally to the AO within 48 hours after spudding. If the spudding occurs on a weekend or holiday, the report will be submitted on the following regular work day. The oral report will be followed up with a Sundry Notice.

Coors Energy shall report production data to MMS pursuant to 30 CFR 216.5 using form MMS/3160.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported in accordance with the requirements of NTL-3A or its revision.

If a replacement rig is contemplated for completion operations, a "Sundry Notice" (Form 3160-5) to that effect will be filed, for prior approval of the AO, and all conditions of this approved plan are applicable during all operations conducted with the replacement rig.

Should the well be successfully completed for production, the AO will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 days following the date on which the well is placed on production.

Pursuant to NTL-2B, with the approval of a District Engineer, produced water may be temporarily disposed of into unlined pits for a period of up to 90 days. During the period so authorized, an application for approval of the permanent disposal method, along with the required water analysis and other information, must be submitted to the District Engineer.

Gas produced from this well may not be vented or flared beyond an initial authorized test period of 30 days or 50 MMCF following its completion, whichever occurs first, without the prior written approval of the authorized officer. Should gas be vented or flared without approval beyond the authorized test period, the operator 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 the operator 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.

Coors Energy shall submit a schematic facilities diagram as required by 43 CFR 3162.7-2, 3162.7-3, and 3162.7-4 to the appropriate District Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in 43 CFR 3162.7 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with 43 CFR 3162.7-4.

A first production conference will be scheduled within 15 days after receipt of the first production notice.

No well abandonment operations will be commenced by Coors Energy without the prior approval of the AO. In the case of newly drilled dry holes or failures, and in emergency situations, oral approval will be obtained from the AO. A "Subsequent Report of Abandonment" Form 3160-5, will be filed with the AO within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration. Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the AO or his representative, or the appropriate Surface Managing Agency.

Pursuant to Onshore Oil and Gas Orders, Coors Energy has the responsibility to see that their exploration, development, production, and construction operations are conducted in a manner which conforms with applicable Federal laws and regulations and with State and local laws and regulations to the extent that such State and local laws are applicable to operations on Federal or Indian lands.

#### 7. Other Information

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the AO.

Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried or anchored down from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy will be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. The AO will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the Vernal District Office. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

In addition, the use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3.

Coors Energy understands there will be no deviation from the proposed drilling and/or workover program without prior approval from the AO. Safe drilling and operating practices will be observed. All Coors Energy's wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.

Sundry Notices (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3162.3-2.

Section 102(b)(3) of the Federal Oil and Gas Royalty Management Act of 1982, as implemented by the applicable provisions of the operating regulations at Title 43 CFR 3162.4-1(c), requires that "not later than the 5th business day after any well begins production on which royalty is due anywhere on a lease site or allocated to a lease site, or resumes production in the case of a well which has been off production for more than 90 days, the operator shall notify the authorized officer by letter or Sundry Notice, Form 3160-5, or orally to be followed by a letter or Sundry Notice, of the date on which such production has begun or resumed."

Coors Energy understands that the date on which production is commenced or resumed will be construed for oil wells as the date on which liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which liquid hydrocarbons are first produced into a permanent storage facility, whichever first occurs; and, for gas wells as the date on which associated liquid hydrocarbons are first sold or shipped from a temporary storage facility, such as a test tank, and for which a run ticket is required to be generated or, the date on which gas is first measured through permanent metering facilities, whichever first occurs.

If Coors Energy fails to comply with this requirement in the manner and time allowed, Coors Energy will be liable for a civil penalty of up to \$10,000 per violation for each day such violation continues, not to exceed a maximum of 20 days. See Section 109(c)(3) of the Federal Oil and Gas Royalty Management act of 1982 and the implementing regulations of Title 43 CFR 3162.4-1(b)(5)(ii).

Coors Energy understands the APD approval is valid for a period of one (1) year from the signature date. An additional one (1) year approval period may be granted, if requested, prior to the expiration of the original approval period.

In the event after-hour approvals are necessary, Coors Energy will contact one of the following individuals:

Gerald E. Kenczka (801) 781-1190  
Petroleum Engineer

Ed Forsman (801) 789-7077  
Petroleum Engineer

/kr

MULTIPOINT SURFACE USE PLAN  
COORS ENERGY COMPANY  
UTE TRIBAL 11-16D  
Section 16, T4S-R4W, NE/SW  
Duchesne County, Utah  
Lease No. I-109-IND-5351

Coors Energy Company will assure that this APD will be posted in the doghouse of the drilling rig during the drilling of this well. Also, a sign will be posted at the entrance to the location with the name of the well, operator and location description. We will notify Ralph Brown or Tim O'Brien at the BLM in Vernal, Utah between 24 and 48 hours prior to beginning any work on this land. Prior to starting surface construction operations, the dirt contractor shall have a completed approved copy of this APD.

1. EXISTING ROADS - See Exhibits C, D

Access to the Coors Ute Tribal 11-16D begins at the City of Duchesne, Utah, and proceeds along the following roads with approximate mileages as follows:

Proceed easterly on Highway 40 for approximately 3.2 miles to a dirt road to the right, proceed southerly along this road for approximately 2.7 miles to an intersection, turn (east) left onto an existing road and proceed for approximately 0.2 miles to a turnoff to the right, proceed southeasterly for another 0.2 miles to the access road to the Ute Tribal 11-16D.

Materials for upgrading the existing road will come from the immediate area of road improvement work.

If existing roads need to be upgraded, they will be constructed with an 18' road surface with bar ditches and water bars where required. Not over 30' will be cleared to upgrade any existing roads.

2. PLANNED ACCESS ROAD - See Exhibits C, D, E

The access road will be approximately 200' in length and will have a 30' ROW with an 18' running surface maximum. The maximum grade will be 1%. No turnouts are required. Borrow ditches will be used for drainage. No culverts or bridges are required nor are gates, turnouts, cattle guards or fence cuts. Source of surfacing material will be from the access road soils and subsoils. All travel will be confined to existing access road right-of-ways. The access road surface owner is Lesser Slave, Inc.

The access road will be upgraded to meet standards of the anticipated traffic flow, including ditching on both sides with cutouts on downhill side, draining, crowning and capping for all weather conditions. Prior to upgrading, any snow will be removed and the ground allowed to dry. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals with cutouts. Upgrading will not be done during muddy conditions and mud holes will be filled in.

Access roads and surface disturbing activities will conform to standards outlined in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development.

3. LOCATION OF EXISTING WELLS - See Exhibit F

Within a 1-mile radius of this proposed well, there is one drilling well:

The Ute Tribal 1-3D

There is one completing wells:

The Ute Tribal 1-20D

There are 10 producing wells:

Ute 8, Ute 2-15D, Ute 7-16D, Ute 8-16D, Ute 3, Ute 2, Ute 5, Ute 6, Ute 4-17D, Ute 6-16D

There is one SI well:

The Ute 1-9.

There are three locations:

Ute 9-16D, Ute 3-15D, and the Ute 1-21D.

There is one injection well:

Friar #4

There is one P&A'd well:

Ute Tribal 10-16D

With the exception of the above mentioned wells, there are no:

- a) known water wells
- b) temporarily abandoned wells
- c) disposal wells
- d) monitoring or observation wells

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES - See Exhibit B

Coors Energy Company's surface production facilities in this area will consist of a pump jack, two 400-bbl. tanks, a glycol boiler, and a 3-phase separator facility with a waste water disposal pit. If the well is a producer, at the time of well completion, a Sundry Notice along with a drawing of the pad site and production facilities will be submitted to the BLM by our Vernal office for approval.

All production facilities will be painted in an earth color such as Desert Brown, 10YR6/3, unless specified differently by the Surface Owner, within six (6) months of when they are put in place. If a tank battery is constructed on this site, a berm will be built around the tank battery high enough to contain 1-1/2 times the storage capacity of the battery.

For drilling operations, a survey map showing rig layout is attached. See Exhibit "B". All necessary surface equipment will be spotted on the 325' x 235' well site pad. Access to the well pad will be on the east side of the location between Pts. 8 and 9.

5. LOCATION AND TYPE OF WATER SUPPLY - See Exhibit K

The source of the water used to drill this well will be from Curry Leasing. Water will be taken from the Duchesne River on the east end of Duchesne. Approximately 6000 bbls of water will be required to drill and complete this well. The Temporary Change Application No. is t89-43-13, updated on 11/23/89. Application A60177 is heretofore referenced from Water Right 43-9594.

6. SOURCE OF CONSTRUCTION MATERIALS - See Exhibit B

The top 6" of topsoil will be removed from the well pad and stored on the east end of the location between Pts 7 & 8 as shown on Exhibit "B". Fill materials needed to construct the location will be derived locally from cuts needed to build the well pad or from the access road. Any artifacts found on Tribal lands will be left in place and the BIA promptly notified.

If fill materials are needed to construct roads or well sites, proper permits must be obtained from the Surface Management Agency, unless materials are obtained from a private source.

7. METHODS FOR HANDLING WASTE DISPOSAL - See Exhibit B

Disposal of drilling fluids and any produced oil or water recovered during testing operations will go to a reserve pit.

Mud reserve pits will be located on the northwest side of the location between points A & B and will be constructed for containment of drill cuttings as well as all drilling fluids and produced fluids. The reserve pit will be inspected after construction to determine if lining will be required. The pit will be fenced as per statements in Section 9.

Produced waste water will be confined to the reserve pit. At the time of pit construction, it will be inspected by the BLM to determine whether it will be necessary to line the pit. The water will be stored in this pit for a period not to exceed 90 days after first production. The reserve pit will then be allowed to dry and then back-filled and the area restored according to BLM requirements upon completion of the well.

During the 90-day period, if the well will be a producer, an application for approval of a permanent disposal method and location, along with required water analysis, will be submitted for the AO's approval. Failure to file an application within the time allowed will be considered an incident of noncompliance. During production operations, all produced waters will be disposed of according to NTL-2B stipulations.

All garbage and trash will be placed in a trash cage and hauled to an appropriate disposal site. No burning of any trash will occur at the location. A chemical toilet will be installed during drilling operations. Any disturbed area not required for producing operations will be restored according to BLM instructions.

The production facilities will create no additional surface disturbances. The drilling waste pit will be fenced on three sides with 36" woven sheep wire with two strands of barbed wire on top of the sheep wire. Upon completion of the drilling operations, the fourth side will be fenced. The reserve pit will be lined with clay or plastic to prevent seepage. The BLM will make a determination when the pit is constructed.

Trash, litter and construction materials will not be littered along road ways or drilling sites.

8. ANCILLARY FACILITIES

Camp facilities or airstrips will not be required.

9. WELL SITE LAYOUT - See Exhibit B

Attached is a diagram showing the proposed well site layout.

All pits will be fenced with a wire mesh fence and topped with at least one strand of barbed wire. The reserve pit fencing will be on three sides during drilling operations and on the fourth side when the rig moves off the location. Any hydrocarbons on the pit will be removed from the pit as soon as possible after drilling operations are completed. Pits will be fenced and maintained until clean-up.

The fence will be constructed as prescribed in the USGS Publication (1978) Surface Operating Standards for Oil and Gas Development. Alternatives to the prescribed standards shall be submitted to the Authorized Officer for approval.

The reserve pit will be located on the north side of location between Pts A & B. The stockpiled topsoil will be stored on the east side between Points 7 & 8. Access to the well pad will be made from the east side between points 8 & 9.

Diversion ditches will be constructed on the north side of the location above the cut slope, draining to the east and west.

Coors Energy Company contacted Mr. Dale Workman at the Utah State University Extension Office at (801) 738-2080 regarding weed control on the well site and along access roads. We were informed that the following weeds are prevalent to this area: Nap Weed, White Top, Quack Grass, Canadian Thistle, Musk Thistle, Leafy Spurge, and Morning Glory. We will follow their recommended procedure and spray with the suggested chemicals to control noxious weeds in these areas.

10. PLANS FOR RESTORATION OF SURFACE - See Exhibit B

Surface vegetation scraped off during drill site preparation will be removed and stock-piled prior to topsoil removal. Upon abandonment, vegetation will be redistributed as a mulching agent over the well site. All disturbed areas will be recontoured to the approximate natural contours. The top 6" of topsoil will be stock-piled on the east side of the well site as shown on Exhibit "B", between Pts 7 & 8.

The original surface will be reconstructed as close as possible upon abandonment. The stock-piled topsoil will be spread over the area. Any solid waste material present prior to abandonment will be removed from the location. Any oil or deleterious liquids will be removed by a pump truck to an approved disposal area.

Before any dirt work to restore the location takes place, the reserve pit will be completely dry and all trash will be removed. The access road will also be blocked during restoration. The reserve pit and that part of the location not needed for production will be reclaimed in the same manner outlined in this section within 90 days from date of well completion.

Prior to reseeding, all disturbed areas including the access road, will be scarified and left with a rough surface.

The topsoil will be tested to determine if fertilizer is needed to re-establish vegetation. After spreading the stock-piled topsoil, the following seed mixture, if acceptable to Private Surface Owner, will be used for reseeding:

Smooth brome (Manchar)	5 lbs. pure live seed/acre
Orchard grass	5 lbs. pure live seed/acre
Timothy	5 lbs. pure live seed/acre
Intermediate wheat grass	5 lbs. pure live seed/acre
Alsike clover	1 lb. pure live seed/acre

This mixture will be drilled to a depth of one-half inch and planted from September 15th until the ground freezes, unless specified otherwise by the Private Surface Owner. If seeding is unsuccessful, the operator may be required to make subsequent seedings.

Coors will notify the Surface Owner 48 hours prior to starting rehabilitation procedures.

If any cultural resources are found during construction, all work will stop and the BLM will be notified.

#### 11. SURFACE OWNERSHIP

Lesser Slave, Inc. has 100% surface ownership of the location of the Ute Tribal 11-16D well site. The Private Land Owner's Surface Agreement and the archeological report or waiver is in the process of being obtained by Jim Simonton, Field Supervisor, and will be sent under separate cover upon receipt.

#### 12. OTHER INFORMATION - See Exhibits G, H, J

The Ute Tribal 11-16D is located approximately 3-1/2 miles southeast of Duchesne, Utah on the Uintah and Ouray Indian Reservation. The area is covered with native sagebrush. No wildlife was observed on the location. A Threatened and Endangered Species Study will be performed and a copy will be sent to you at a later date to add to this Application.

The operator or his contractor shall contact the BLM and the BIA offices at (801) 789-1362 (BLM) and (801) 722-2406 (BIA) between 24 and 48 hours prior to construction activities. Contact Ralph Brown or Tim O'Brien.

The BLM shall be notified upon site completion prior to moving on the drilling rig.

An archeological survey will be sent to you at a later date to add to this Application or a waiver of the report if the owner agrees to waive the survey. However if during operations, any archaeological or historical sites, or any object of antiquity (subject to the Antiquities Act of June 8, 1906) are discovered, all operations which would affect such sites are to be suspended and the discovery reported promptly to the BIA & BLM.

Since this well is on the Uintah and Ouray Indian Reservation, Coors will work closely with Ute Tribal representatives to ensure all Tribal requirements for drilling and production operations of this well are followed. See Exhibit "H", Ute Tribal Notice, stating their requirement when traversing or operating on Ute Indian Lands.

A flare pit will be located 150' from the wellbore and 75' from the reserve pit between Pits 6 & 7. If any fluids go to the flare pit, they will be removed within 48 hours.

It is Coors Energy Company's policy that no Coors' employees nor subcontractors carry firearms on access roads nor onto the location during drilling or well completion operations of this well. No alcoholic beverages or drugs will be permitted on Coors' operations on Indian lands. No prospecting will be allowed on Coors' operations.

A copy of the Designation of Operator from the Ute Indian Tribe of the Uintah and Ouray Indian Reservation assigning Lease I-109-IND-5351, to Coors Energy Company is attached, see Exhibit "G".

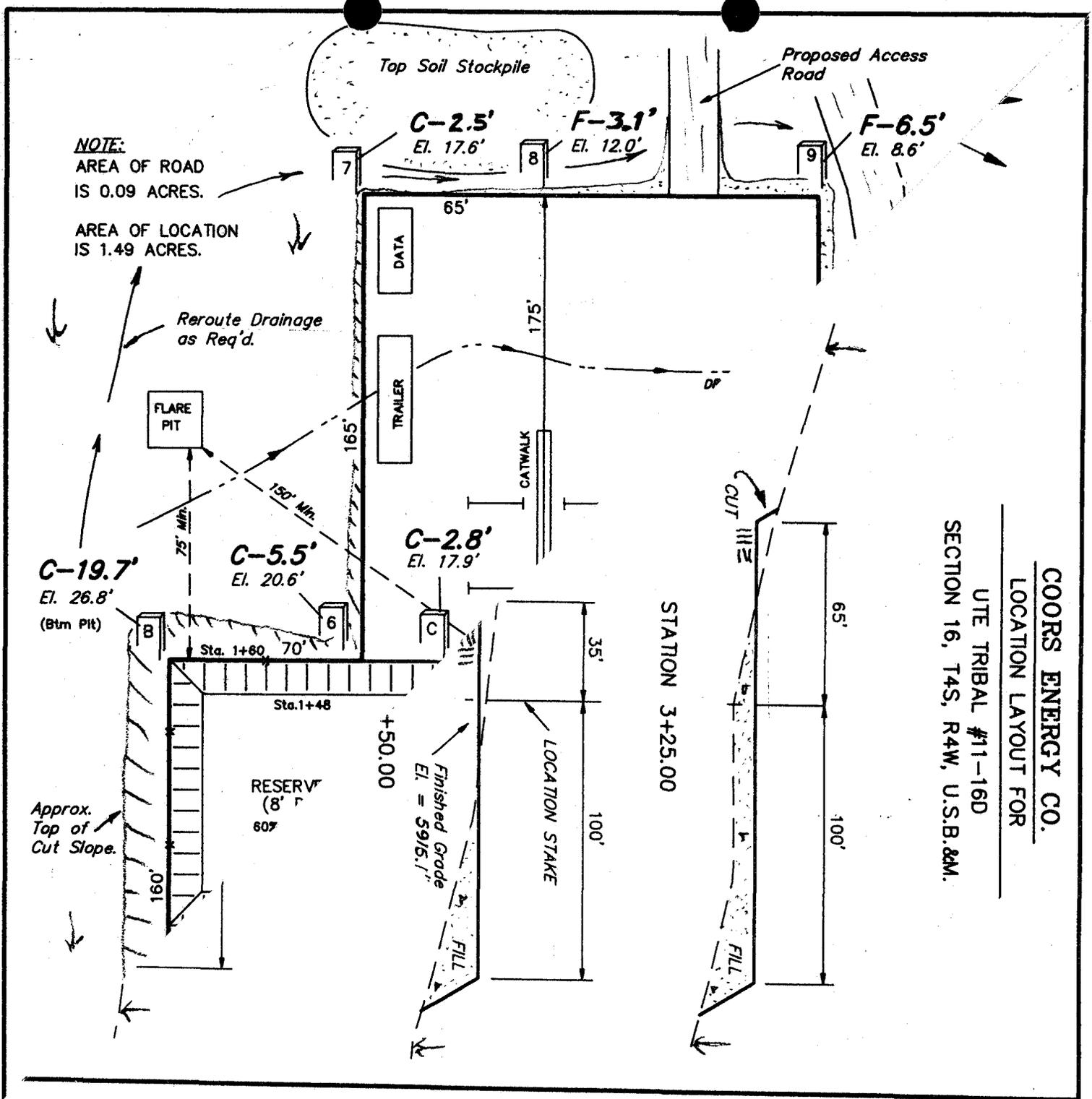
13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION  
REPRESENTATIVE

Doug Sprague  
Manager, Engineering Services  
Coors Energy Company  
P.O. Box 467  
Golden, Colorado 80402  
Phone: (303) 278-7030

CERTIFICATION

See Exhibit "I"

/kr



**NOTE:**  
 AREA OF ROAD  
 IS 0.09 ACRES.  
 AREA OF LOCATION  
 IS 1.49 ACRES.

Reroute Drainage  
 as Req'd.

FLARE  
 PIT

**C-19.7'**  
 El. 26.8'  
 (Btm Pit)

**C-5.5'**  
 El. 20.6'

**C-2.8'**  
 El. 17.9'

Approx.  
 Top of  
 Cut Slope.

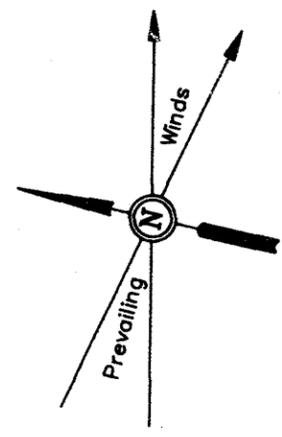
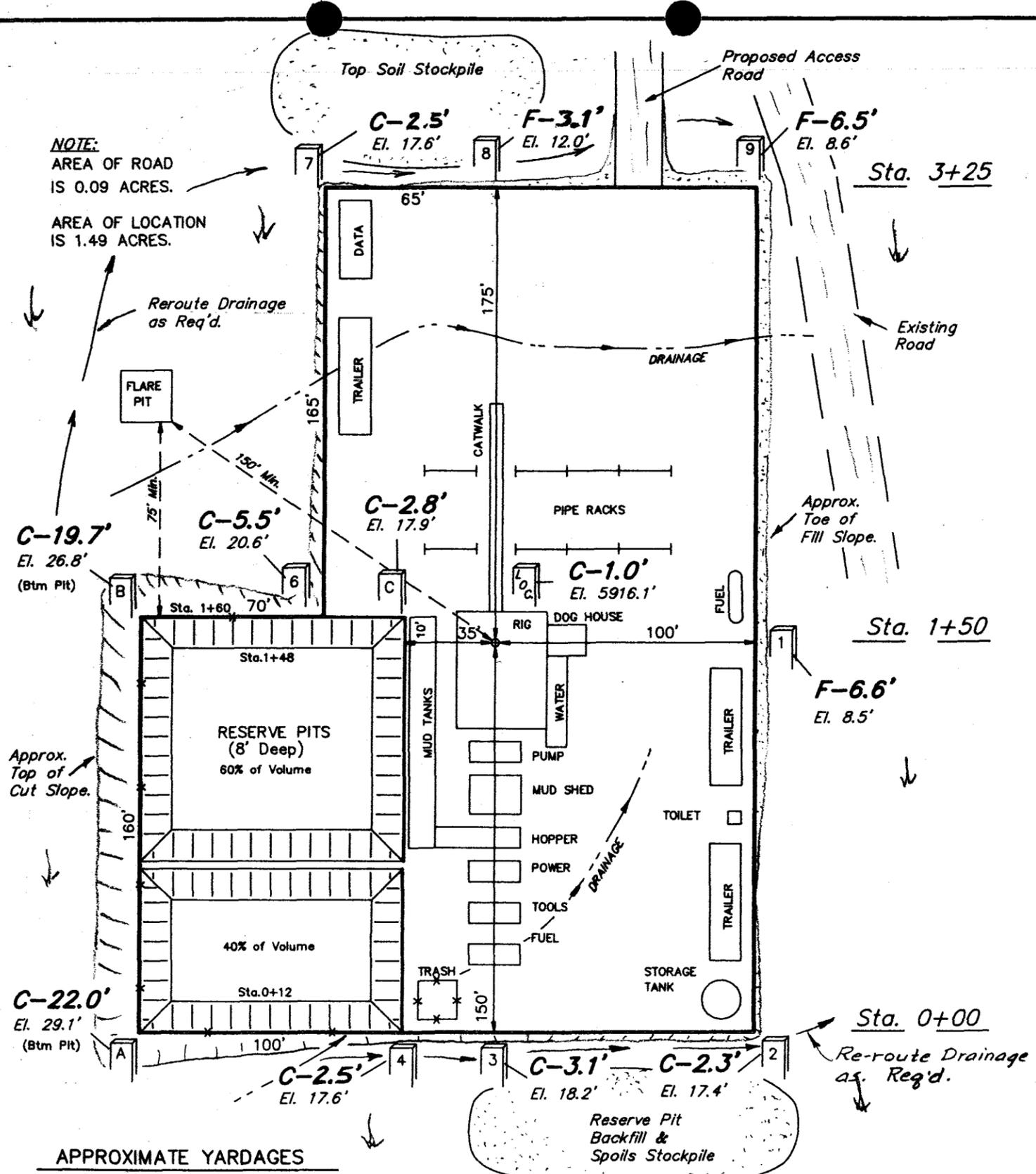
RESERV'  
 (8' x  
 60')

Finished Grade  
 El. = 59/5.1'

**COORS ENERGY CO.**  
 LOCATION LAYOUT FOR  
 UTE TRIBAL #11-16D  
 SECTION 16, T4S, R4W, U.S.B.8M.

**COORS ENERGY CO.**  
**LOCATION LAYOUT FOR**  
 UTE TRIBAL #11-16D  
 SECTION 16, T4S, R4W, U.S.B.&M.

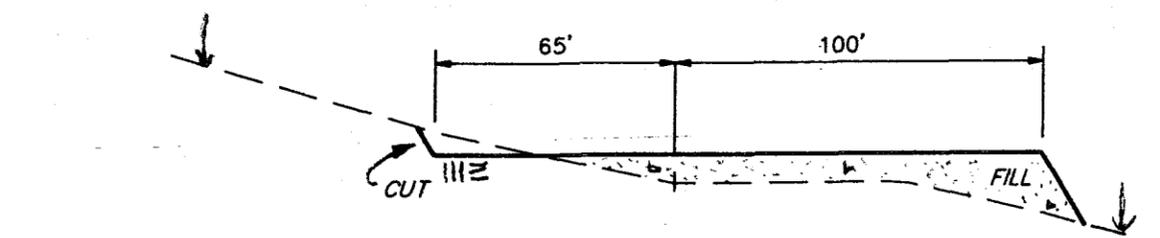
**NOTE:**  
 AREA OF ROAD IS 0.09 ACRES.  
 AREA OF LOCATION IS 1.49 ACRES.



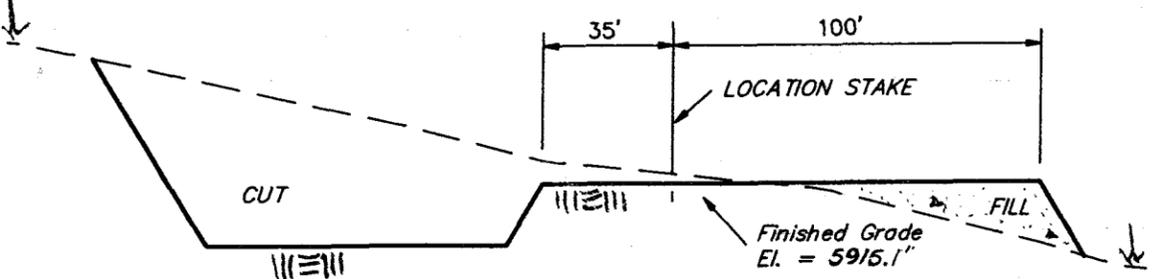
SCALE: 1" = 50'  
 DATE: 10-5-89

X-Section Scale  
 1" = 50'

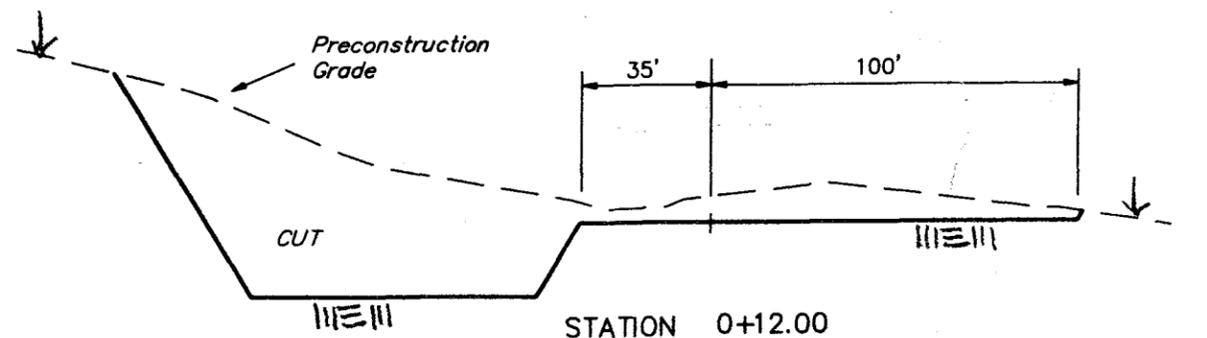
TYP. LOCATION LAYOUT TYP. CROSS SECTIONS



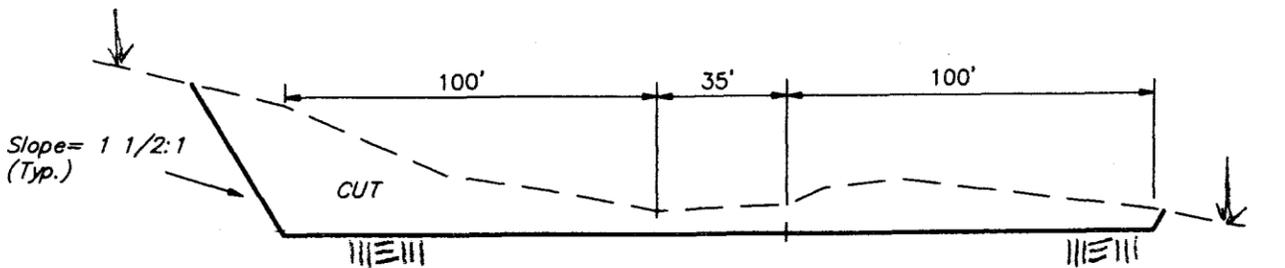
STATION 3+25.00



STATION 1+50.00



STATION 0+12.00



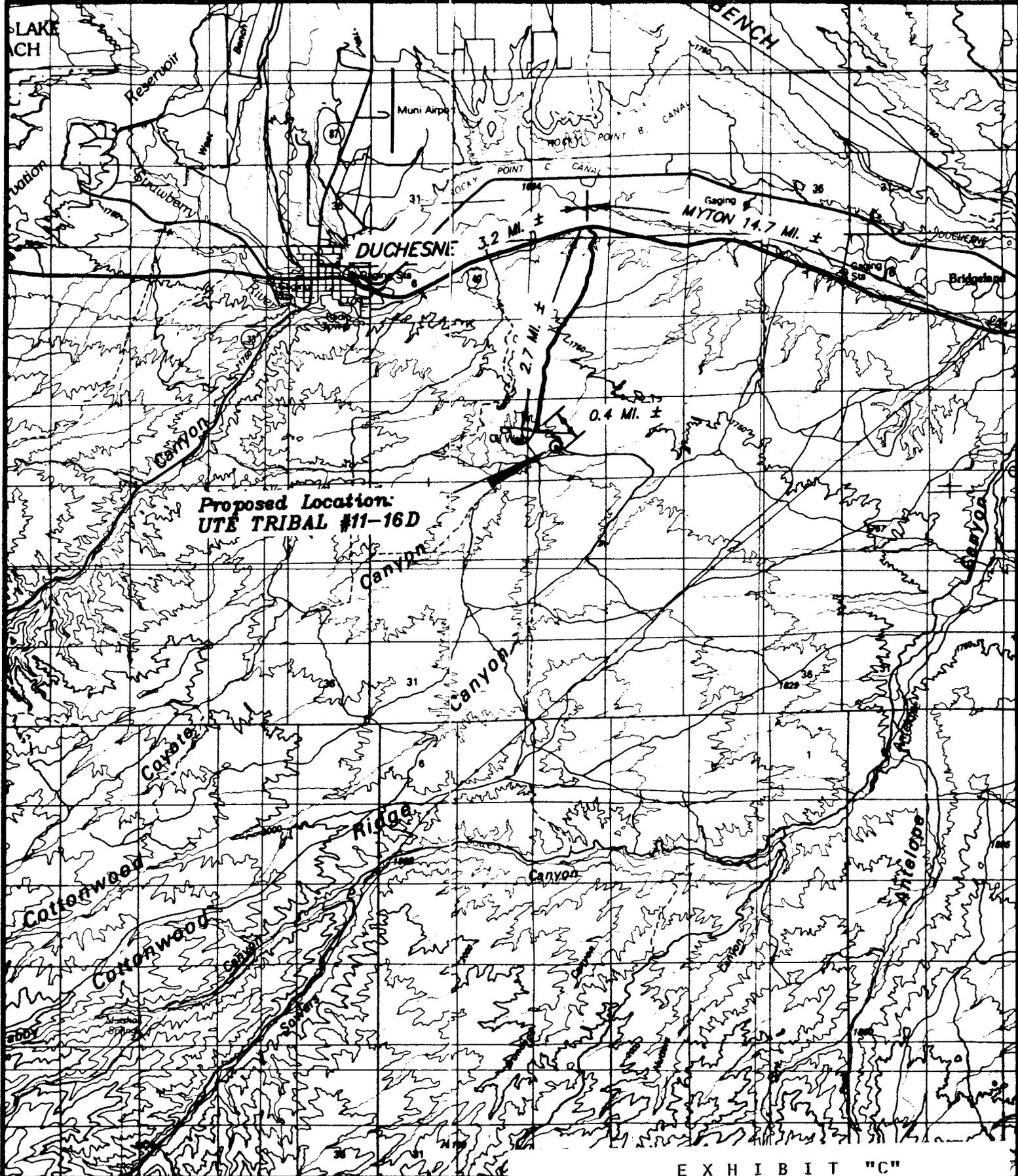
STATION 0+00.00

**APPROXIMATE YARDAGES**

CUT	
(6") Topsoil Stripping	= 1,400 Cu. Yds.
Pit Volume (Below Grade)	= 3,468 Cu. Yds.
Remaining Location	= 5,625 Cu. Yds.
<b>TOTAL CUT</b>	<b>= 10,493 CU. YDS.</b>
<b>FILL</b>	<b>= 5,819 CU. YDS.</b>

EXCESS MATERIAL AFTER 5% COMPACTION	= 4,368 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,134 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation)	= 1,234 Cu. Yds.

Elev. Ungraded Ground at Loc. Stake = **5916.1'**  
 Elev. Finished Grade at Loc. Stake = **5915.1'**



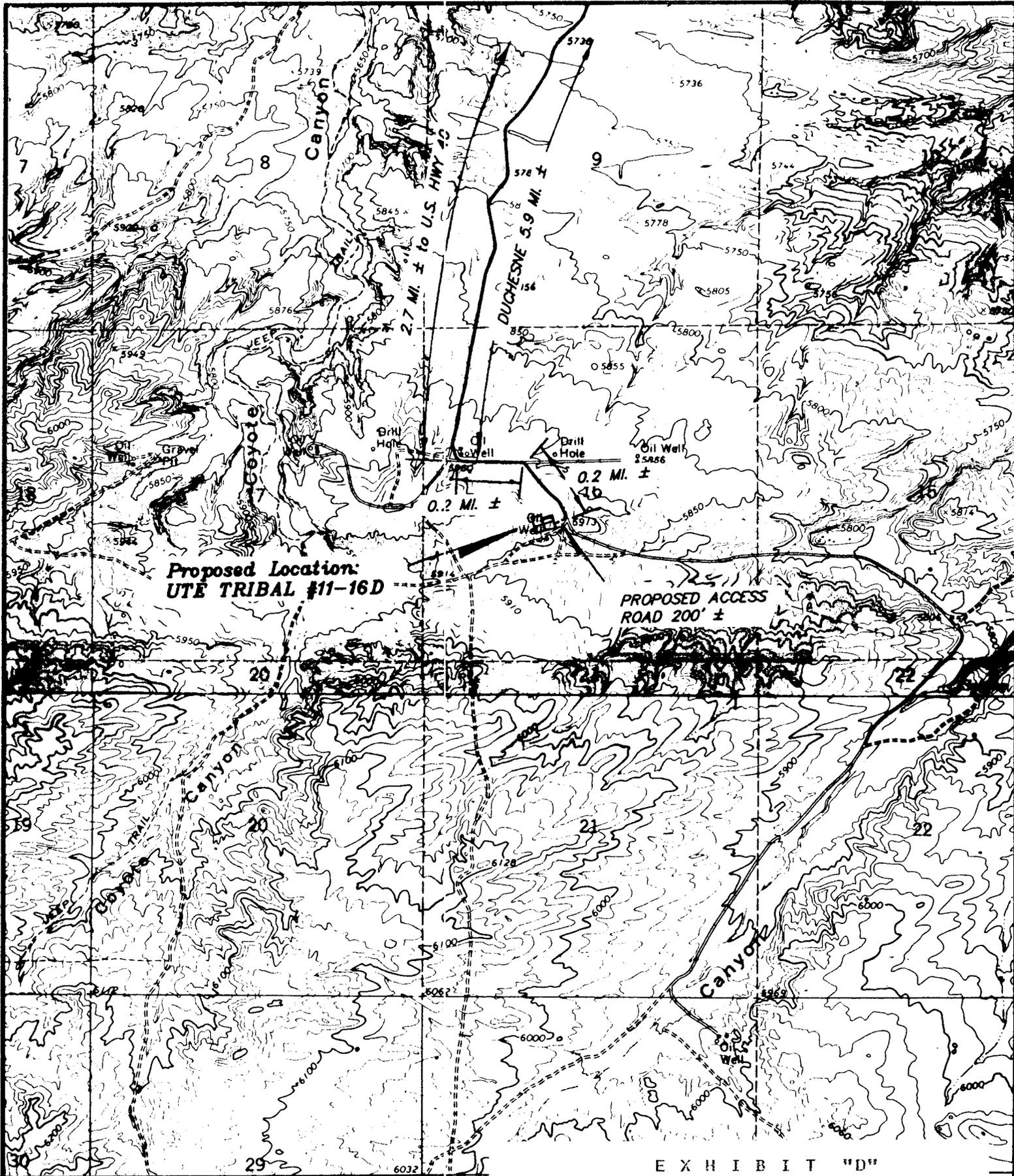
TOPOGRAPHIC  
MAP "A"



COORS ENERGY CO.

UTE TRIBAL #11-16D  
SECTION 16, T4S, R4W, U.S.B.&M.

DATE: 10-2-89



**Proposed Location:  
UTE TRIBAL #11-16D**

**PROPOSED ACCESS  
ROAD 200' ±**

EXHIBIT "D"

**TOPOGRAPHIC  
MAP "B"**



SCALE: 1" = 2000'

**COORS ENERGY CO.**

**UTE TRIBAL #11-16D  
SECTION 16, T4S, R4W, U.S.B.&M.**

DATE: 10-2-89

(Submit in Triplicate)

SUPERVISOR, OIL AND GAS OPERATIONS:

## DESIGNATION OF OPERATOR

The undersigned is, on the records of the U. S. Department of the Interior, Bureau of Indian Affairs

DISTRICT LAND OFFICE: The Ute Indian Tribe of the Uintah and Ouray Indian Reservation  
SERIAL NO.: I-109-Ind-5351

and hereby designates

NAME: Coors Energy Company  
ADDRESS: 14062 Denver West Parkway, Bldg 52, Suite 300, Golden, Colorado 80401

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

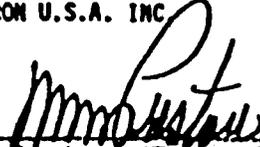
See Exhibit "A" attached hereto and made a part hereof.

It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

CHEVRON U.S.A. INC

By: 

J. B. Preston (Signature of lessee) Assistant Secretary

August 25, 1987

(Date)

P. O. Box 599, Denver, Colorado 80201

(Address)

EXHIBIT "G"

EXHIBIT "A"

Exhibit "A" attached to and made a part of that certain Designation of Operator dated August 25, 1987.

Township 4 South, Range 4 West, U.S.M.

Section 7: Lots 1, 2, 3, 4, 5, 6, 7, SE $\frac{1}{4}$ NW $\frac{1}{4}$ , S $\frac{1}{2}$ NE $\frac{1}{4}$ , SE $\frac{1}{4}$

Section 8: All

Section 9: SW $\frac{1}{4}$

Section 10: S $\frac{1}{4}$

Section 15: N $\frac{1}{4}$

Section 16: All

Section 17: All

Section 18: Lots 3, 4, E $\frac{1}{2}$ SW $\frac{1}{4}$ , E $\frac{1}{4}$



NOTICE

TO: All Well Operators, Lessees, Subcontractors, Vendors, and Affiliated Agents and Employees Thereof

When entering the Ute Reservation, the entering individual is coming into a sovereign nation separate and distinct from the State of Utah. As such, there are special requirements which must be complied with when traversing or operating on Ute Indian Lands.

1. Trespass permits shall be obtained and carried with individual on tribal lands at all times:
2. All operators, subcontractors, vendors, and their employees or agents shall not carry firearms or other weapons.
3. All operators, subcontractors, vendors, and their employees or agents are confined to established roads and well sites. All litter must be removed from Ute Lands.
4. All operators, subcontractors, vendors, and their employees or agents may not gather firewood on Indian lands. Absent a duly granted "wood permit," such gathering is a criminal offense punishable in Federal court.
5. If water or fill materials are needed in constructing roads, well sites, or are used in the drilling process, proper permits are needed. Required information for permits includes: a) the approximate amount of water or materials needed; b) the location and ownership of the water rights or materials to be used and; c) the approximate amount of water or materials to be used.
- 6) All artifacts found while on Tribal lands shall be left in place and the Tribe promptly notified of the find.
- 7) No prospecting will be allowed on Tribal lands.
- 8) No alcoholic beverages or drugs shall be permitted while working on the Reservation.



P.O. BOX 467 GOLDEN, COLORADO 80402

CERTIFICATION BY OPERATOR'S FIELD REPRESENTATIVE

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access road; that I am familiar with the conditions that presently exist; that the statements made in this plan are, to the best of my knowledge, true, complete, and correct; and that the work associated with this plan will be carried on by Coors Energy Company, and its contractors and subcontractors, in conformity with the plan and the terms and conditions under which it is approved.

11-17-89

Date

D.S. Sprague

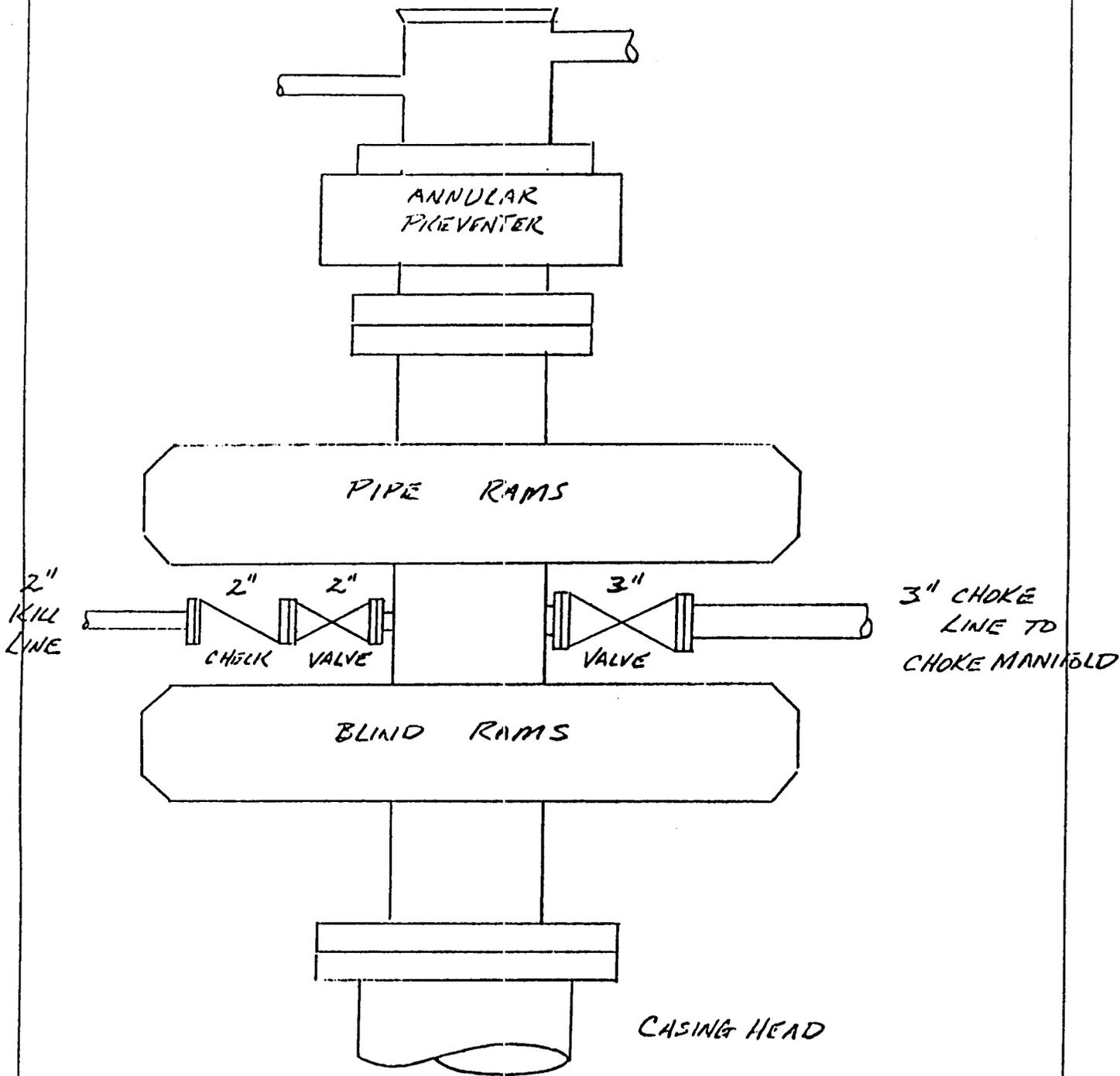
D.S. Sprague  
Manager  
Engineering Services

DSS:kr

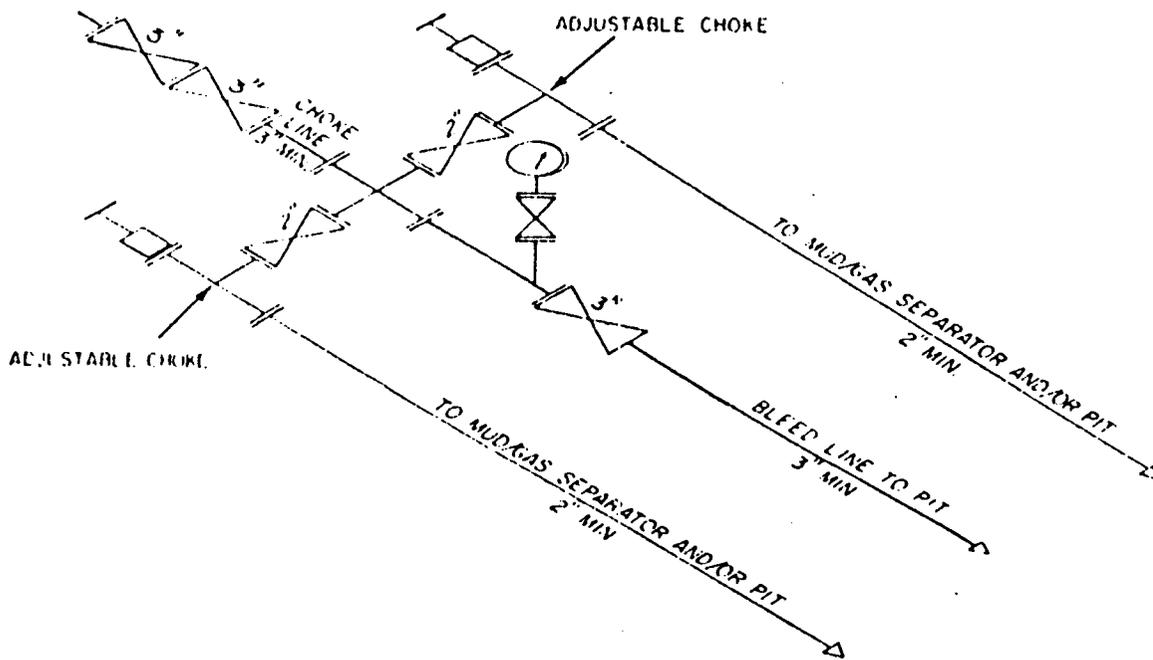
EXHIBIT "I"

# BLOWOUT PREVENTION EQUIPMENT

3000 PSI W.P.



1. ANNULAR PREVENTER
2. DOUBLE RAM, PIPE AND BLIND RAMS WITH 2 SIDE OUTLETS FOR KILL AND CHOKER LINES, ALTERNATIVE WOULD BE TO USE DRILLING SPOOL WITH 2 SIDE OUTLETS, SPOOL WOULD BE INSTALLED BETWEEN RAMS OR BETWEEN CASING HEAD AND BLIND RAMS.



3M CHOKE MANIFOLD EQUIPMENT — CONFIGURATION MAY VARY

# APPLICATION FOR TEMPORARY CHANGE OF WATER

## STATE OF UTAH

Rec. by \_\_\_\_\_  
 Fee Paid \$ \_\_\_\_\_  
 Receipt # \_\_\_\_\_  
 Microfilmed \_\_\_\_\_  
 Roll # \_\_\_\_\_

For the purpose of obtaining permission to make a temporary change of water in the State of Utah, application is hereby made to the State Engineer, based upon the following showing of facts, submitted in accordance with the requirements of Section 73-3-3 Utah Code Annotated 1953, as amended.

TEMPORARY CHANGE APPLICATION NO. t89-43-13

Proposed amendatory changes: point of diversion [X], place of use [X], nature of use [X]

1. NAME: Curry Leasing  
ADDRESS: P.O. Box #227 Altamont, UT 84001
2. FILING DATE: October 23, 1989
3. RIGHT EVIDENCED BY: A60177

HERETOFORE referenced from Water Right: 43-9594

4. FLOW: 0.05 cfs OR 36.5 acre-feet
5. SOURCE: Duchesne River, tributary to Green River
6. COUNTY: Duchesne
7. POINT(S) OF DIVERSION:  
(1) ft. E 950 ft. from SW corner, Section 27, T2S, R5W, USBM  
Diverting Works: Pump trucks and hauled
8. NATURE OF USE:  
OIL EXPLORATION: Oil well drilling, completion and service work  
PERIOD OF USE: August 3 to August 3

9. PLACE OF USE:

Sec 27, T2S, R5W, USBM

NORTH-EAST NE NW SW SE	NORTH-WEST NE NW SW SE	SOUTH-WEST NE NW SW SE	SOUTH-EAST NE NW SW SE
: : :	: : :	: : X:	: : :

### EXPLANATORY

State Right-of-Way

The Place of Use is shown on the application as follows: East 950 feet from SW Corner, Section 27, T2S, R5W, USB&M.

### THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

10. FLOW: 0.05 cfs OR 12.0 acre-feet REMAINING WATER: Same as HERETOFORE  
Continued on Next Page

EXHIBIT "K"

11. SOURCE: Duchesne River

12. COUNTY: Duchesne

COMMON DESCRIPTION: 1 mile east of Duchesne

13. POINT(S) OF DIVERSION: Changed as follows:

- (1) ft. E 950 ft. from SW corner, Section 27, T2S, R5W, USBM  
Diverting Works: Pump trucks Source: Duchesne River
- (2) N 2250 ft. E 750 ft. from SW corner, Section 6, T4S, R4W, USBM  
Diverting Works: Pump trucks Source: Duchesne River

14. PLACE OF USE: Changed as follows:

ALL T4S, R4W, USBM

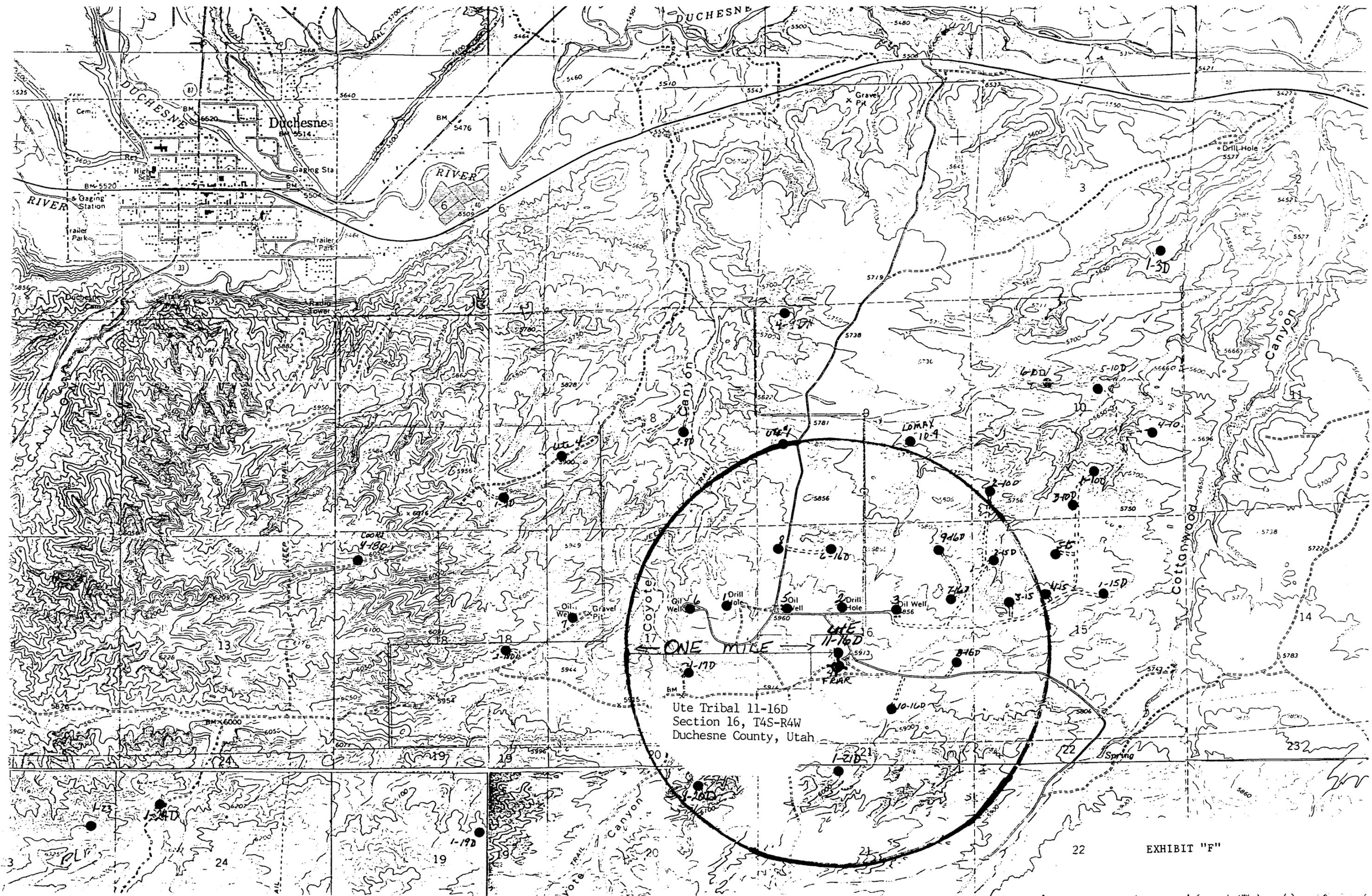
NORTH-EAST NE NW SW SE	NORTH-WEST NE NW SW SE	SOUTH-WEST NE NW SW SE	SOUTH-EAST NE NW SW SE
---------------------------	---------------------------	---------------------------	---------------------------

15. NATURE OF USE: Changed as follows:

OIL EXPLORATION: Oil well drilling, completion and service work in Sowers-Antelope a  
 PERIOD OF USE: October 23, 1989 to October 22, 1990

The undersigned hereby acknowledges that even though he/she may have been assisted in the preparation of the above-numbered application through the courtesy of the employees of the State Engineer's Office, all responsibility for the accuracy of the information contained therein, at the time of filing, rests with the applicant.

  
 \_\_\_\_\_  
 Signature of Applicant

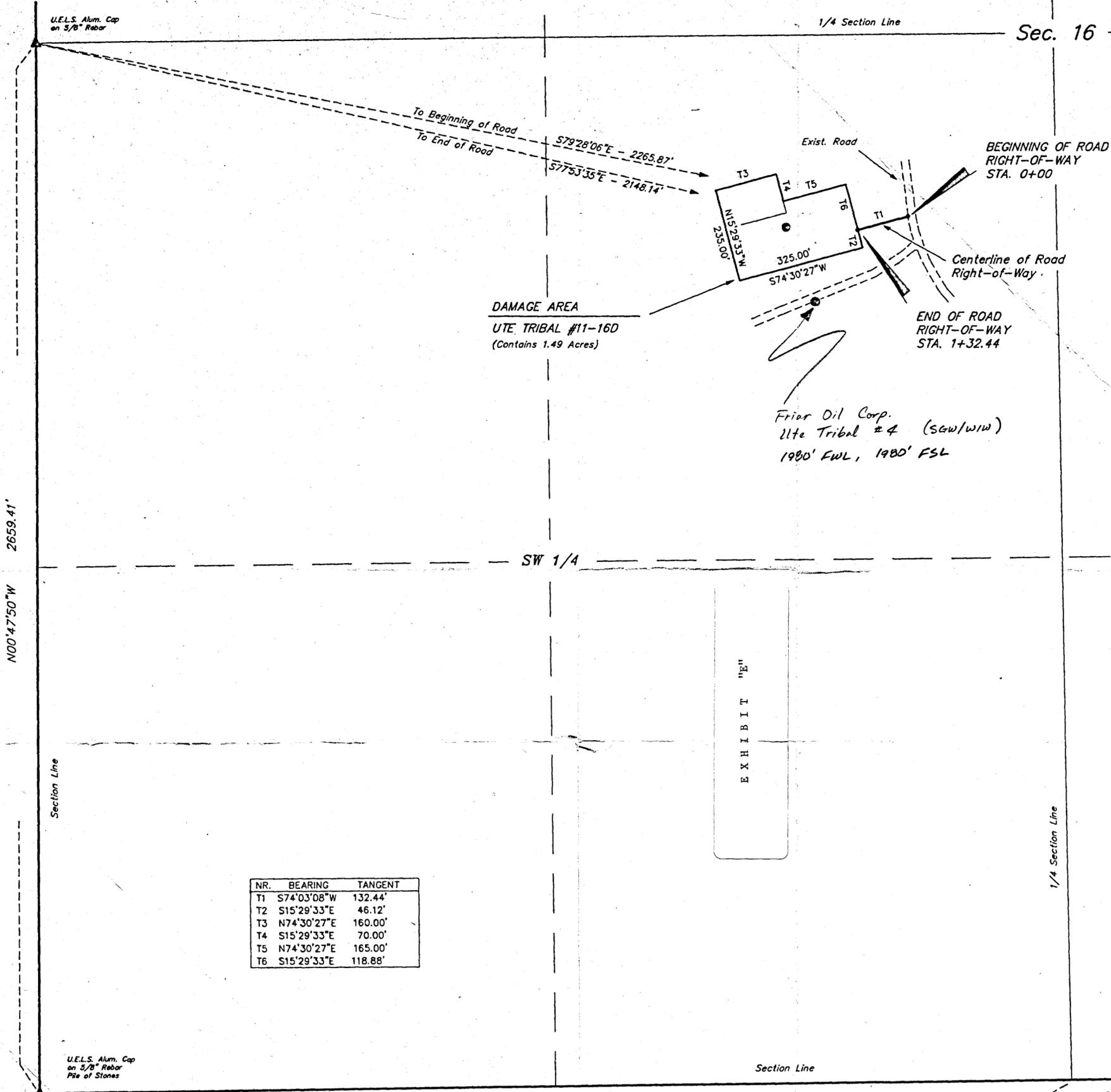


Ute Tribal 11-16D  
Section 16, T4S-R4W  
Duchesne County, Utah

T 4 S, R 4 W, U. S. B. & M.

COORS ENERGY CO.  
**ROAD RIGHT-OF-WAY  
 & DAMAGE AREA**  
 (FOR UTE TRIBAL #11-16D)

LOCATED IN  
 SECTION 16, T4S, R4W, U.S.B.&M.  
 DUCHESNE COUNTY, UTAH



DESCRIPTIONS

ROAD RIGHT-OF-WAY

A 30' WIDE ROAD RIGHT-OF-WAY (15' PERPENDICULAR ON EACH SIDE OF THE FOLLOWING DESCRIBED CENTERLINE).  
 BEGINNING AT A POINT IN THE SW 1/4 OF SECTION 16, T4S, R4W, U.S.B.&M. WHICH BEARS S79°28'06"E 2265.87' FROM THE WEST 1/4 CORNER OF SAID SECTION, THENCE S74°03'08"W 132.44' TO A POINT IN THE SAID SW 1/4 WHICH BEARS S77°53'35"E 2148.14' FROM THE SAID 1/4 CORNER.  
 BASIS OF BEARINGS IS THE UTAH STATE GRID, CENTRAL ZONE. CONTAINS 0.09 ACRES MORE OR LESS.

DAMAGE AREA

BEGINNING AT A POINT IN THE SW 1/4 OF SECTION 16, T4S, R4W, U.S.B.&M. WHICH BEARS S77°53'35"E 2148.14' FROM THE WEST 1/4 CORNER OF SAID SECTION, THENCE S15°29'33"E 46.12'; THENCE S74°30'27"W 325.00'; THENCE N15°29'33"W 235.00'; THENCE N74°30'27"E 160.00'; THENCE S15°29'33"E 70.00'; THENCE N74°30'27"E 165.00'; THENCE S15°29'33"E 118.88' TO THE POINT OF BEGINNING.  
 BASIS OF BEARINGS IS THE UTAH STATE GRID, CENTRAL ZONE. CONTAINS 1.49 ACRES MORE OR LESS.

NR.	BEARING	TANGENT
T1	S74°03'08"W	132.44'
T2	S15°29'33"E	46.12'
T3	N74°30'27"E	160.00'
T4	S15°29'33"E	70.00'
T5	N74°30'27"E	165.00'
T6	S15°29'33"E	118.88'

**RECEIVED**  
 NOV 29 1989

CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

*Robert L. Key*  
 REGISTERED LAND SURVEYOR  
 REGISTRATION NO. 5709  
 STATE OF UTAH

**NOTES:**  
 BASIS OF BEARINGS IS THE UTAH STATE GRID, CENTRAL ZONE.  
 ▲ = SECTION CORNERS LOCATED.

**U.E.L.S. UTAH ENGINEERING & LAND SURVEYING**  
 85 SOUTH 200 EAST - VERNAL, UTAH 84078  
 (801) 789-1017

SCALE: 1" = 200'	DATE: 10-11-89
SURVEYED BY: L.D.T. E.M.	DRAWN BY: J.R.S. T.D.H.
WEATHER: COOL, CLEAR	FILE: COORS ENERGY CO.

**RECEIVED**

FEB 24 1993

DIVISION OF  
OIL GAS & MINING

3162.35  
U-08438

FEB 17 1993

ATTN: James G. Stephen  
Evertson Oil Company, Inc.  
P.O. Box 397  
Kimball, NE 69145

Re: Notification of Expiration  
Well No. Ute Tribal 11-16D  
Section 16, T4S, R4W  
Duchesne County, Utah  
Lease No. I-109-IND-5351  
43-013-31259

Dear Mr. Stephen:

The Application for Permit to Drill the above-referenced well was approved on March 8, 1990. The location and access road were completed April 27, 1990, at the approved location, but the well was not drilled.

January 31, 1991, Coors requested the APD for Well No. 11-16D be allowed to expire as it would not be drilled. If you intend to drill at this location at a future date, a new Application for Permit to Drill must be submitted.

The surface disturbance associated with the approved location of this well is to be rehabilitated in accordance with the surface owners agreement. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

**|s| HOWARD B. CLEAVINGER II**

Howard B. Cleavinger II  
Assistant District Manager for Minerals

cc: Coors Energy Company

bcc: Well File                      Div. OG&M  
      BIA                              U-922/943  
      Ute Tribe                     AIRS  
      RA



# State of Utah

DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

Norman H. Bangerter  
Governor

Dee C. Hansen  
Executive Director

Dianne R. Nielson, Ph.D.  
Division Director

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

March 2, 1993

Mr. Doug Sprague  
Coors Energy Company  
P.O. Box 467  
Golden, Colorado 80402

Dear Mr. Sprague:

Re: Well No. Ute Tribal 11-16D, Sec. 16, T. 4S, R. 4W, Duchesne County, Utah  
API No. 43-013-31259

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval prior to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

Don Staley  
Administrative Manager  
Oil and Gas

DME/lde

cc: Evertson Oil Company  
R.J. Firth  
Bureau of Land Management - Vernal  
Well file

WOI196