

UTAH DIVISION OF OIL, GAS AND MINING

REMARKS: WELL LOG _____ ELECTRIC LOGS _____ FILE WATER SANDS _____ LOCATION INSPECTED _____ SUB. REPORT/ABD. _____

OPERATOR NAME CHANGE 11-26-79

DATE FILED 11-14-78

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-14076 INDIAN

DRILLING APPROVED: 11-13-78

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 5893' GR

DATE ABANDONED: 11-14-79 - Location Abandoned; Approval suspended until drilling commences

FIELD: Wildcat 3/86

UNIT:

COUNTY: Grand

WELL NO. Federal 4076-14-23

API NO: 43-019-30474

LOCATION 1002' FT. FROM XX (S) LINE. 1371' FT. FROM XX (W) LINE. SE SW 1/4-1/4 SEC. 23

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				18S	22E	23	TEXOMA PRODUCTION CO.

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed
✓
✓

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

State Well Completed
.....
..... OS..... PA.....

Location Inspected
.....
State or Fee Land

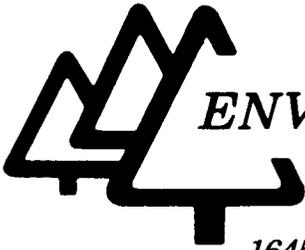
LOGS FILED

Driller's Log
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
BMC Sonic GR..... Lat..... Mi-L..... Sonic.....
SSLog..... CCLog..... Others.....

LWP
4-5-90

Feb. 79 - Mar

77



ENVIROTEK

1645 Court Place
Denver, Co. 80202

• Suite 235 •

(303) 573-9593

October 24, 1978

State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, Utah 84116

Re: The Anschutz Corporation
Federal 4076 ~~13-23~~ 14-23
Section 23, T18S, R22E
Grand County, Utah

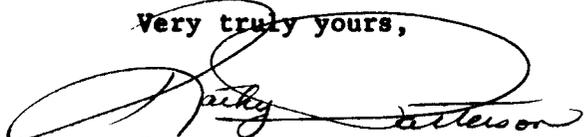
Gentlemen:

With regard to the above referenced well, The Anschutz Corporation is requesting that the well be located 1002' from the West boundary of Section 23, T18S, R22E. It is requested that the well be put in this particular location due to topography.

Please also be advised that Envirotek is acting as agent for The Anschutz Corporation for this matter.

If additional information is needed, please advise.

Very truly yours,



Kathy Patterson

Enclosures

/kp



14

AMENDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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
 The Anschutz Corporation

3. ADDRESS OF OPERATOR
 2400 Anaconda Tower 555 17th St. Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 1371' FWL, 1002' FSL, Section 23, T18S, R22E
 At proposed prod. zone
 Same *SE SW*

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 23 miles NW of Cisco, Utah

16. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 1002'

16. NO. OF ACRES IN LEASE
 2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
 80

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

19. PROPOSED DEPTH
 6400'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5893' ungr.

22. APPROX. DATE WORK WILL START*
 December 1, 1978

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/2"	9-5/8"	32#	100'	cement to surface
8-3/4"	7"	15.5 & 17#	2200'	250 sacks
6-1/4"	4-1/2"	9.5#	6400'	250 sacks

Amended casing program

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: *Nov. 13 1978*

BY: *Chas B. Fright*

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 *[Signature]* TITLE Production Coordinator DATE October 31, 1978

(This space for Federal or State office use)

PERMIT NO. 43-019-30474 APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

AMENDMENT TO TEN POINT RESOURCE PROTECTION PLAN

ITEM # 4

4. Casing Program

Production casing will be 4-1/2" 9.5# K-55 new casing to be set at approximately 6400' and cemented with 250 sacks.

Surface casing will be 7" 15.5# and 17# new casing to be set to a depth of 2200' and cemented with 250 sacks.

Conductor pipe will be set to a depth of 100' and will be 9-5/8" 32# K-55 and will be cemented to surface.

AMENDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1425.

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

TYPE OF WORK
DRILL DEEPEN PLUG BACK

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

NAME OF OPERATOR
The Anschutz Corporation

ADDRESS OF OPERATOR
2400 Anaconda Tower 555 17th St. Denver, Colorado 80202

LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
1371' FWL, 1002' FSL, Section 23, T18S, R22E
At proposed prod. zone
Same

DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
23 miles NW of Cisco, Utah

DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1002'

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2560

17. NO. OF ACRES ASSIGNED TO THIS WELL
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DISTANCE FROM PROPOSED* LOCATION TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIES FOR, ON THIS LEASE, FT.

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6400'

20. ROTARY OR CABLE TOOLS
Rotary

ELEVATIONS (Show whether DF, RT, GR, etc.)
5893' ungr.

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December 1, 1978

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8-3/4"	7"	15.5 & 17#	2200'	250 sacks
6-1/4"	4-1/2"	9.5#	6400'	250 sacks

NOTICE OF APPROVAL

State of Utah, Department of Natural Resources
Division of Oil, Gas, and Mining
1888 West North Temple
Salt Lake City, Utah 84116

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

SIGNED [Signature] TITLE Production Coordinator DATE October 31, 1978

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY J. Ronald Smith TITLE ACTING DISTRICT ENGINEER DATE FEB 21 1979

CONDITIONS OF APPROVAL, IF ANY: **CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY**

NECESSARY FLARING OF GAS DURING DRILLING AND COMPLETION APPROVED
SUBJECT TO ROYALTY (NTL-4)

NOTICE OF APPROVAL

*See Instructions On Reverse Side

T18S, R22E, S.L.B. & M.

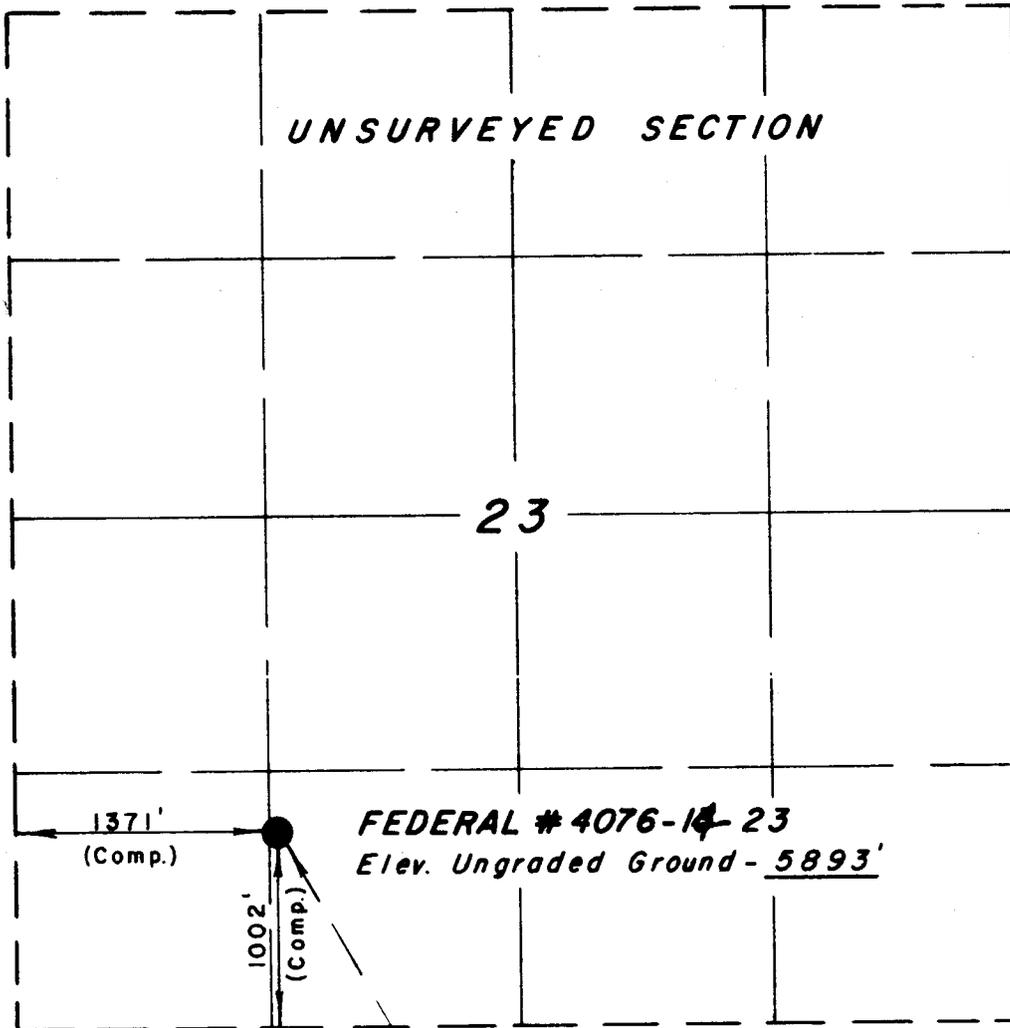
PROJECT

ANSCHUTZ CORPORATION

Well location located as shown in the SE 1/4 SW 1/4 Section 23, T18S, R22E, S.L.B. & M. Grand County, Utah.

NOTE:

Basis of Bears is referenced to Sun Observation taken on October 18, 1978.



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.

Lawrence Clay

REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	October 19, 1978
PARTY	LK RP RP	REFERENCES	GLO Plat
WEATHER	Cool	FILE	ANSCHUTZ CORP.

X = Section Corners Located

South 1/4 Corner of Section 36,
T18S, R22E, S.L.B. & M.

THE ANSCHUTZ CORPORATION

TEN POINT (10) RESOURCE PROTECTION PLAN

Well : Federal 4076 14-23
Location : Section 23, T 18 S, R 22 E
County & State : Grand County, Utah
Federal Lease Number : U-14076
1

AMENDMENT TO TEN POINT RESOURCE PROTECTION PLAN

ITEM # 4

4. Casing Program

Production casing will be 4-1/2" 9.5# K-55 new casing to be set at approximately 6400' and cemented with 250 sacks.

Surface casing will be 7" 15.5# and 17# new casing to be set to a depth of 2200' and cemented with 250 sacks.

Conductor pipe will be set to a depth of 100' and will be 9-5/8" 32# K-55 and will be cemented to surface.

13 POINT SURFACE USE PLAN

FOR
WELL LOCATION

THE ANSCHUTZ CORPORATION
Federal 14-23
LOCATED IN

SECTION 23, T18S, R22E

GRAND COUNTY, UTAH

1. Existing Roads

See attached Topographic Maps "A" and "B".

To reach The Anschutz Corporation well 4076 14-23 in Section 23, T18S, R22E, Grand County, Utah, proceed west from Grand Junction, Colorado on U. S. 70 for 54 miles. At the Cisco exit, proceed 18.5 miles northwest on Diamond Canyon Road to the proposed location. There is 200' of new road to be built to reach the site located on the left side of the road.

No upgrading of present roads is anticipated.

2. Planned Access Road

See Topographic Map "B".

200' of new access road will need to be built to reach the proposed location. The road will comply with all BLM specifications as required.

3. Location of Existing Wells

(Abandoned) Federal 078 #1 SESE Section 15, T18S, R22E

4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines

All production facilities are to be contained within the proposed location site. There are no other Anschutz Corporation flow, gathering, injection or disposal lines in Section 23.

In the event production is established, plans for a gas line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

5. Location and Type of Water Supply

Water utilized to drill this well shall be obtained from existing and approved sources in or near the area where the well shall be drilled.

6. Source of Construction Materials

All construction materials for this location site and access road shall be barrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time. **It may be necessary to use bentonite to line the pit.**

7. Methods for Handling Waste Disposal

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable materials such as cuttings, salt, chemical, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on all four sides with net wire, and the reserve pit will be fenced on three sides. Upon completion of drilling, the fourth side of the reserve pit will be fenced and allowed to dry completely before back-filling and reclamation are attempted. A portable chemical toilet will be supplied for human waste.

8. Ancillary Facilities

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. Well Site Layout

See attached location layout sheet. The BLM District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When Drilling activities commence, all work shall proceed in a neat and orderly sequence.

Also see attached layout for frac operation.

10. Plans for Restoration of Surface

Upon completion of operation, and if well is to be abandoned, the location will be backfilled, leveled, and contoured to as nearly the original topography as is feasible. Any waste material which can be buried without causing environmental damage will be collected and buried in the burn/or reserve pit. Any other waste will be taken to a sanitary landfill for disposal. During drilling operations the reserve pit will be fenced

on three sides. Only the rig side will remain unfenced. The remaining side will be fenced as soon as the rig equipment is moved to allow fencing crews access. This fence will be kept sheep tight and kept in good repair until final cleanup is undertaken. Any oil on the reserve pit will be removed or overhead flaging installed to prevent birds from landing. The top soil will be evenly spread over the entire location after contouring is complete. The area will then be reseeded with recommendations from the surface owner and/or BLM. All access roads built by The Anschutz Corporation will be rehabilitated the same as the location.

Ninety days after completion of drilling and completion operation, the surface will be recontoured in such a manner as not to interfere with production activities. Re-seeding, if any needed, shall take place in the fall, or at the instruction of the BLM District Manager.

11. Other Information

The topography of the general area is mountainous and cut with numerous canyons. The majority of the washes and streams in the area are of a non-perennial nature flowing during the early spring runoff and extremely rare. The location itself is set at the head of a small canyon. There is a wash to the south of the location. There is a large outcropping of rock to the north of the location leading up to the canyon wall. The normal annual rainfall in the area is only 8".

The soils in this semi-arid area are of the Green River formation (Middle Eocene) and the Wasatch formation (Lower Eocene) consisting of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels. Outcrops of sandstone ledges, conglomerate deposits and shale are common on this area. The topsoils in the area range from sandy clay (SM-ML) to clayey (OL) soil.

Due to the low amount of average precipitation, climate conditions and the marginal soils, the vegetation that is found in the area is common to the semi-arid region we are located in. In the lower elevations it consists of juniper and pinion pine forests as the primary flora with areas of sagebrush, rabbit brush, some grasses and cacti.

The fauna of the area consist mainly of mule deer, coyote, rabbit and varieties of small ground squirrels and other types of rodents. The area is used by man primarily for grazing sheep and cattle. The birds in the area are raptors, finches, ground sparrows, magpies, crows and jays.

There are no occupied dwellings or other facilities of this nature in the general area. There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location sites.

12. Lessee's or Operator Representative

Envirotek
1645 Court Place
Denver, CO 80202
(303) 573-9593
Kathy Patterson

The Anschutz Corporation
2400 Anaconda Tower
515 17th Street
Denver, CO 80202
(303) 825-6100
Pete Doty

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 associated with the operations proposed herein will be performed by The Anschutz Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

The Anschutz Corporation



Peter B. Doty

THE ANSCHUTZ CORPORATION

TEN POINT (10) RESOURCE PROTECTION PLAN

Well : Federal 4076 14-23
Location : Section 23, T 18 S, R 22 E
County & State : Grand County, Utah
Federal Lease Number : U-14076

1. Geologic Name of Surface Formation:

Wasatch

2. Estimated Tops of Important Geologic Markers:

Castlegate	1895'
Mancos	2077'
Dakota Sand	5523'
Cedar Mountain	5689'
Morrison	5764'
Salt Wash	5961'
Sommerville	6227'
Entrada	6289'
Total Depth	6400'

3. Estimated Depths of Mineral Bearing Formations:

Of the formations listed above, the Dakota Sand, Cedar Mountain, Morrison and Salt Wash may be oil and gas bearing in this well.

If any water flows are encountered, they will be adequately protected and reported.

4. Casing Program:

Surface Casing 8-5/8" 24# K-55 set at approximately 750' and cemented to surface.

Production Casing 4-1/2" 9.5# K-55 new casing to be set at approximately 6400' and cemented with 200 sacks.

5. Pressure Control - Blowout Preventors:

The blowout preventor specifications and schematic is attached hereto as a separate exhibit (Exhibit "A"). BOP to be tested to at least the designed working pressure which in this case is 3000 psi, and such tests shall be run prior to drilling out from under surface pipe and each day thereafter until well has reached total depth.

6. Drilling Fluids:

It is proposed that the hole will be drilled to total depth using air and air mist as necessary in order to clean the hole.

7. Auxiliary Equipment:

A float at the bit and a sub on the floor with a full opening valve to be stabbed into the drill pipe when the Kelly is not in the string.

8. Logging Program:

The logging program will consist of a Dual Induction Laterolog, and a Compensated Neutron Formation Density Log.

Cores and drill stem tests will be run as required.

9. Abnormal Pressure, Temperature, Potential Hazards:

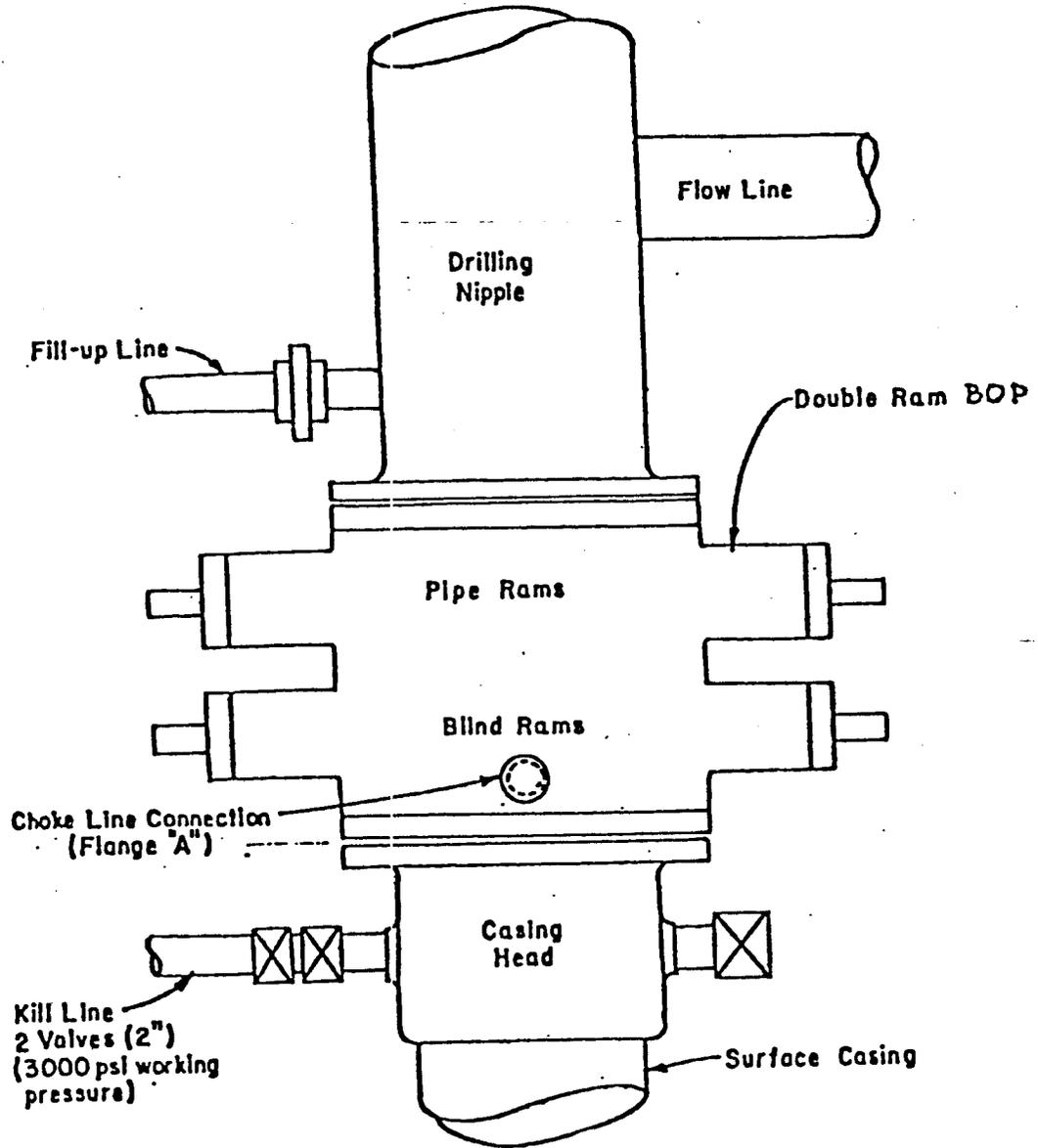
It is not anticipated that abnormal pressures or temperatures will be encountered, nor that any other abnormal hazards such as H₂S gas will be encountered in this area.

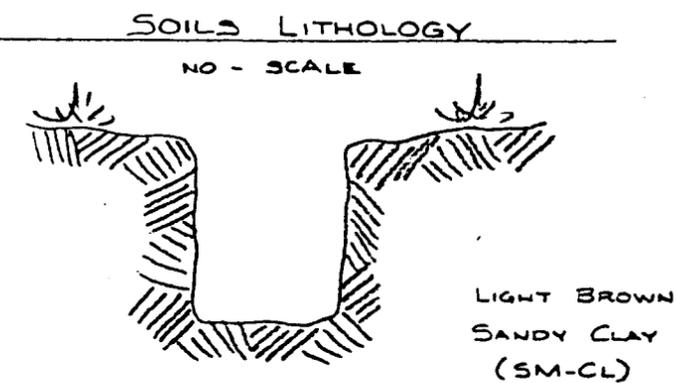
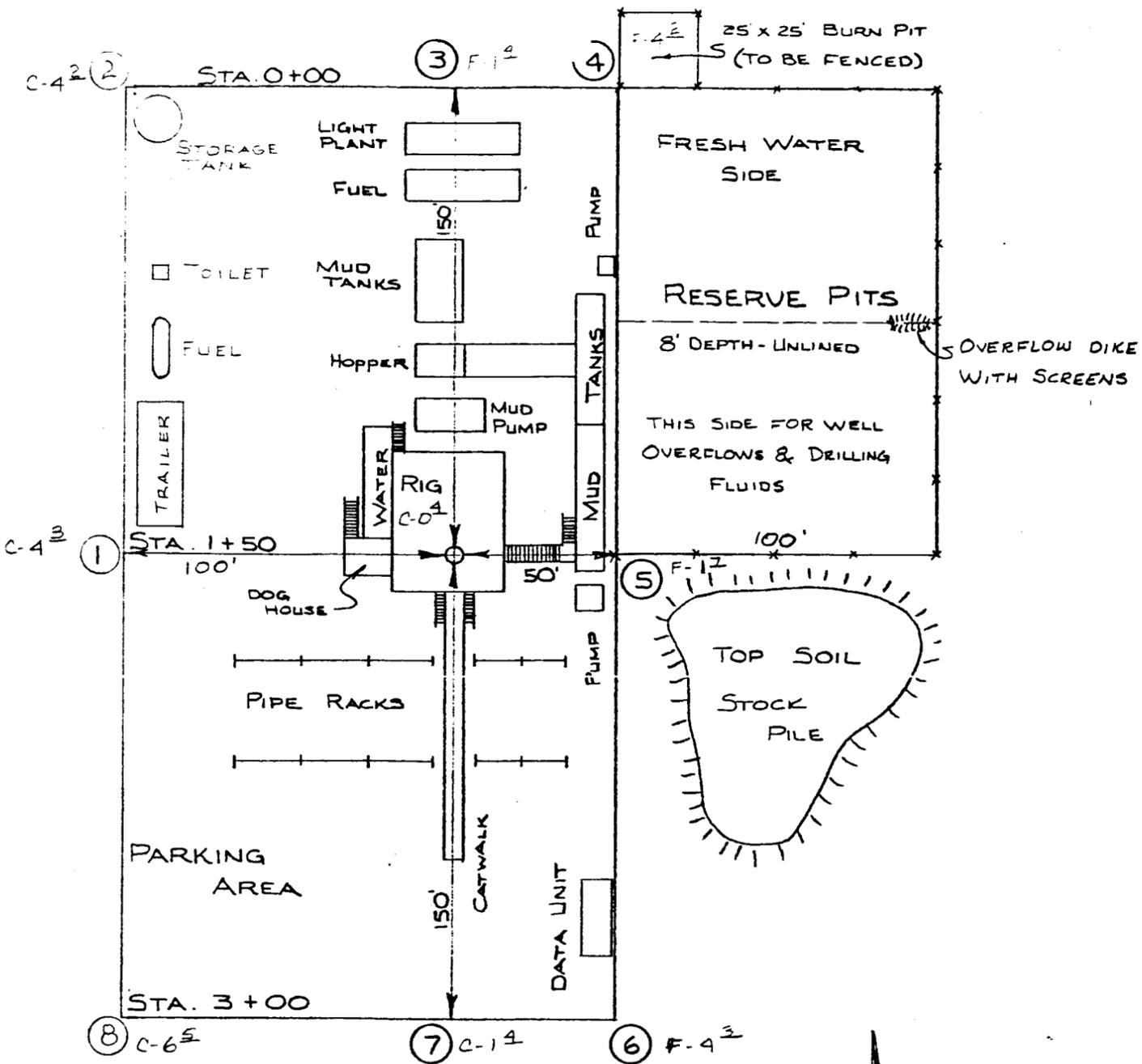
10. Starting Date - Completion:

The anticipated starting date is December 1, 1978 with approximately **thirty days** for building access road, location and drilling to total depth. If production casing is run approximately 30 days for completion operations.

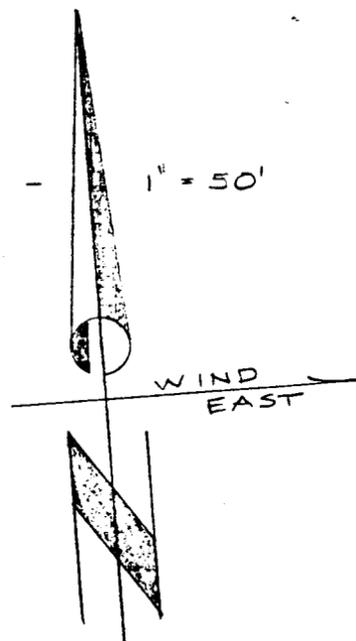
BOP Schematic

Federal 4076 14-23
Section 23, T18S, R22E



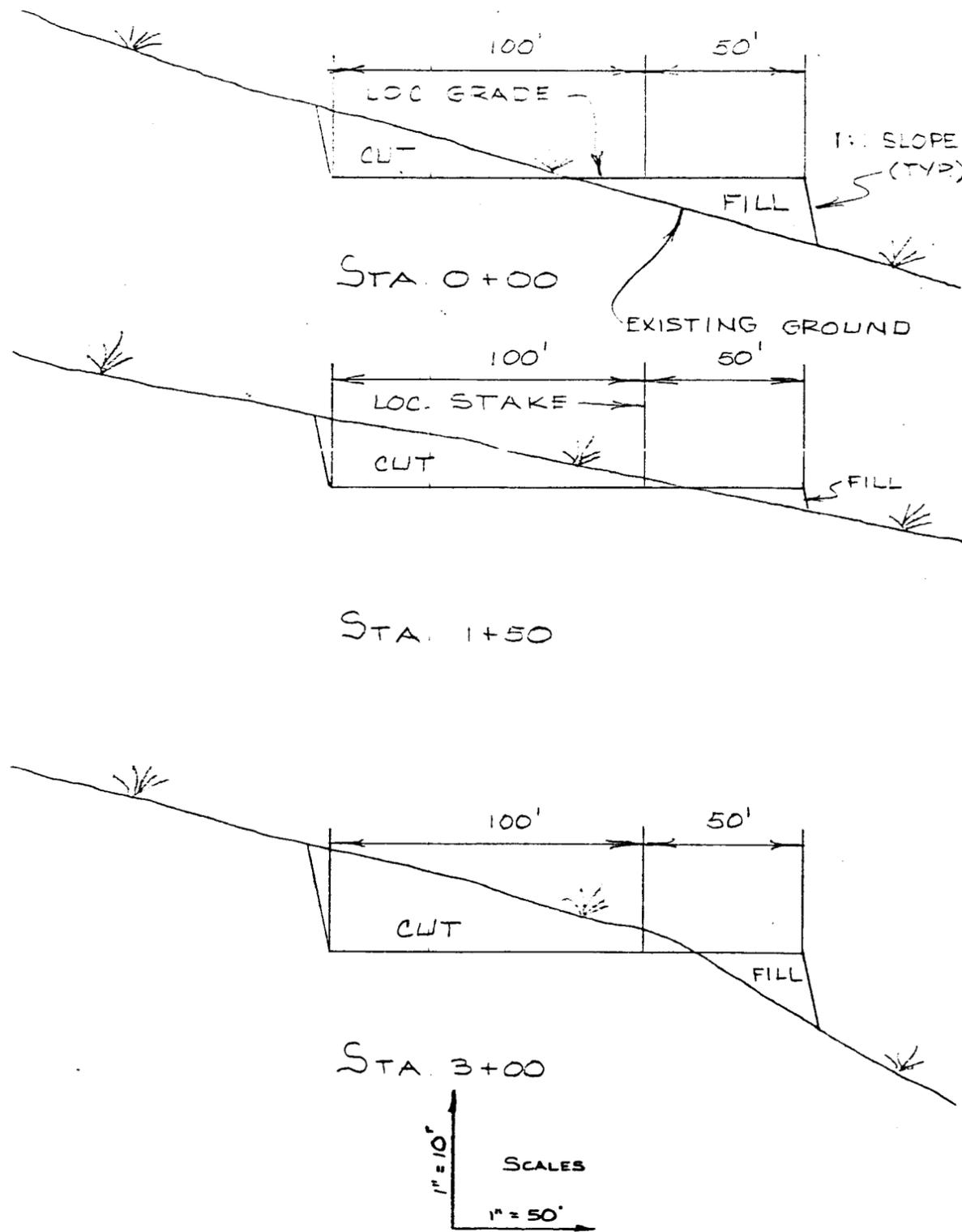


SCALE - 1" = 50'



ANSCHUTZ CORPORATION
FEDERAL HIGHWAY 14
LOCATION LAYOUT & CUT SHEET

SECTION 14-0000



APPROX. YARDAGES

CUT	2,992	CU. YDS.
FILL	914	CU. YDS.

ANSCHUTZ CORPORATION
PROPOSED LOCATION
FEDERAL # 4076-14-23

P



TOPO.

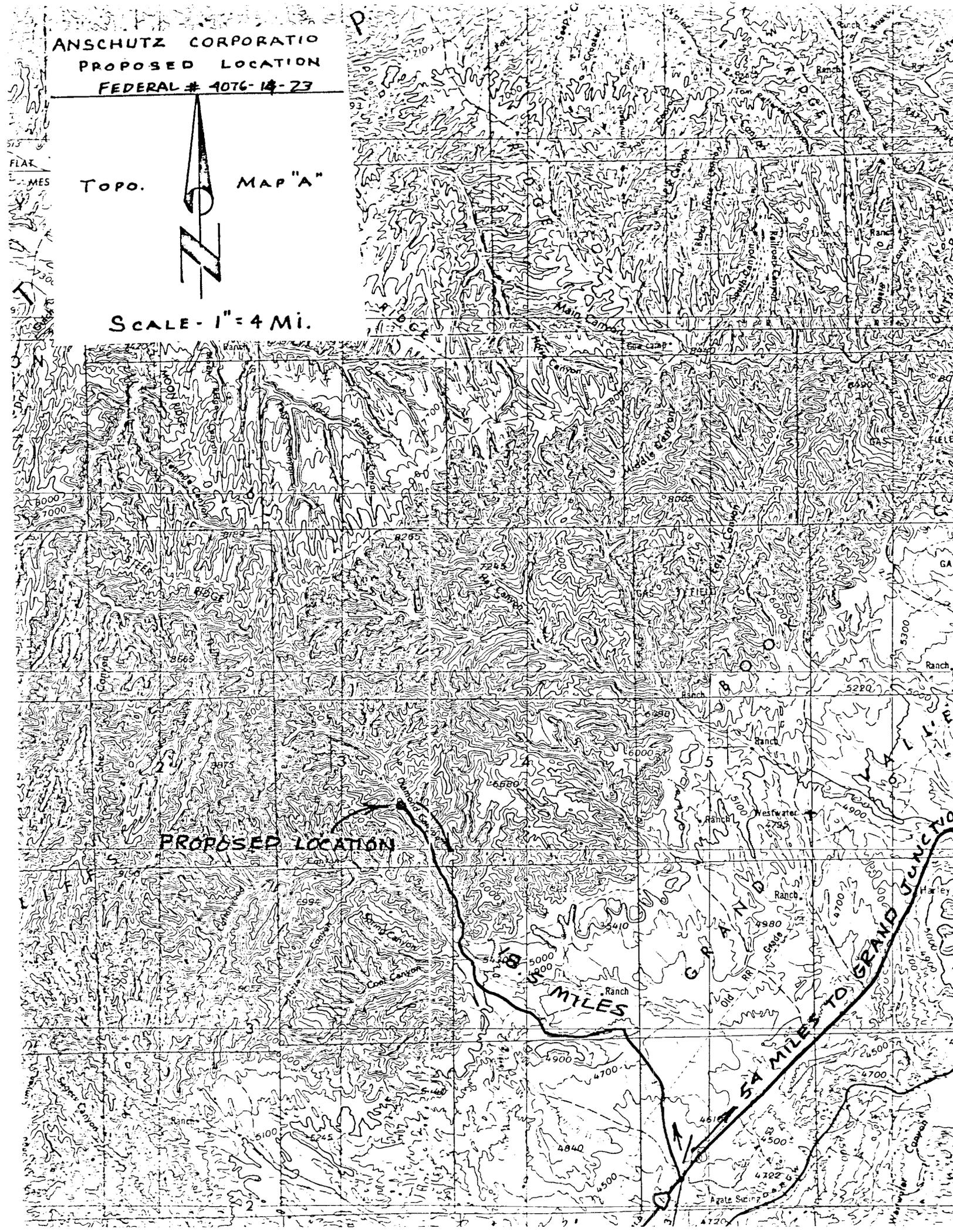
MAP "A"

SCALE - 1" = 4 Mi.

PROPOSED LOCATION

5.4 MILES

54 MILES TO GRAND JUNCTION



ANSCHUTZ CORPORATION
PROPOSED LOCATION
FEDERAL # 4076-14-23

TOPO.

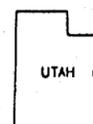
MAP "B"



SCALE - 1" = 2000'

ROAD CLASSIFICATION

- | | | |
|------------------------------------|--|---------------|
| Primary highway,
hard surface | Light-duty road, hard or
improved surface | |
| Secondary highway,
hard surface | Unimproved road | |
| ○ Interstate Route | □ U. S. Route | ○ State Route |



QUADRANGLE LOCATION

PROPOSED LOCATION
FEDERAL # 4076-13-23

PROPOSED ACCESS ROAD - 200'

DEER CANYON

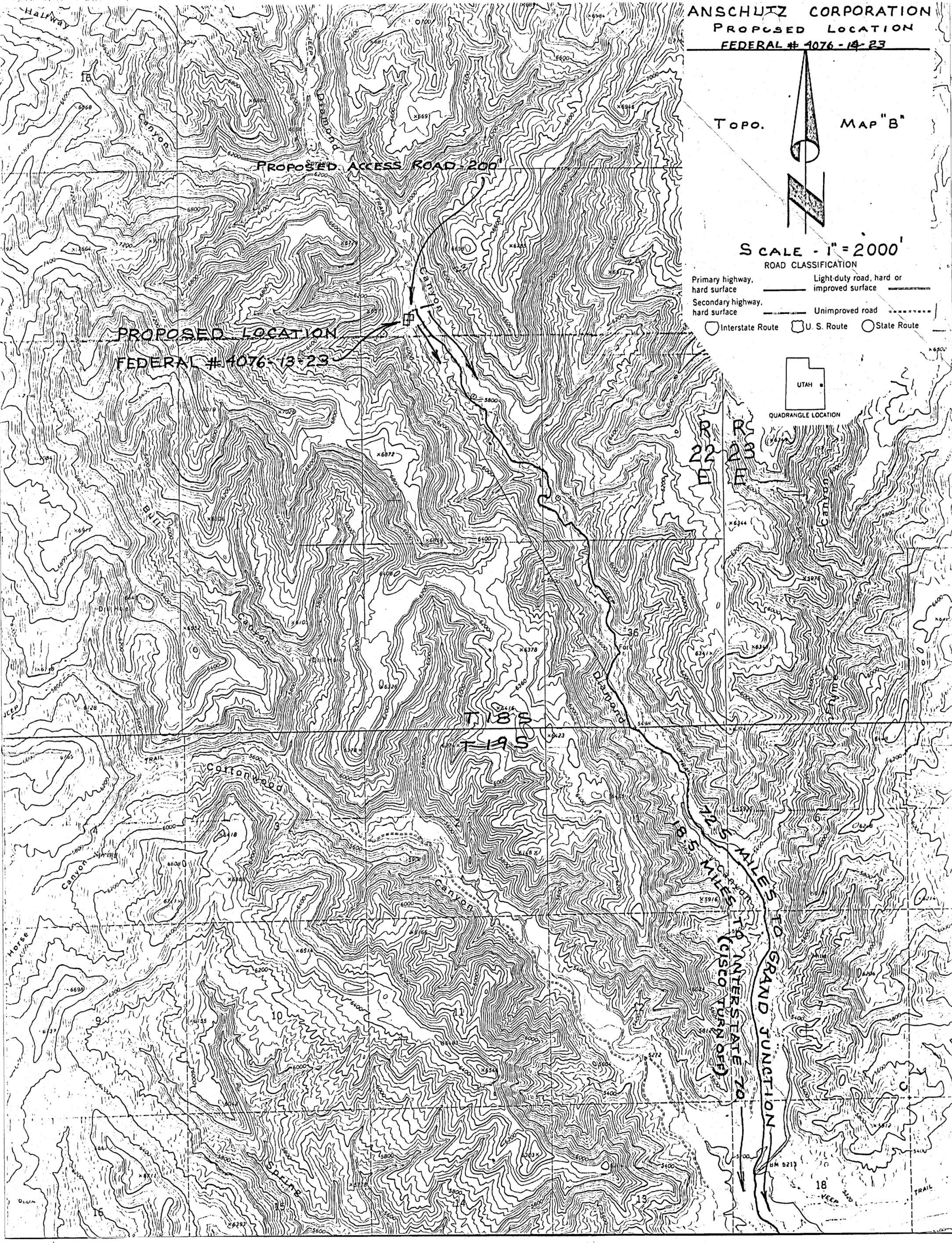
BLIND CANYON

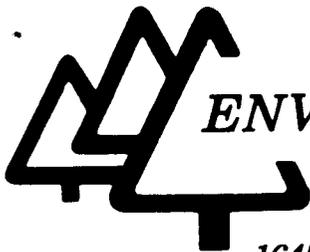
BLIND CANYON

BLIND CANYON

T18 S
T19 S

APPROXIMATELY 18 MILES TO INTERSTATE 70
(CISTO TURN OFF)
APPROXIMATELY 18 MILES TO GRAND JUNCTION





ENVIROTEK

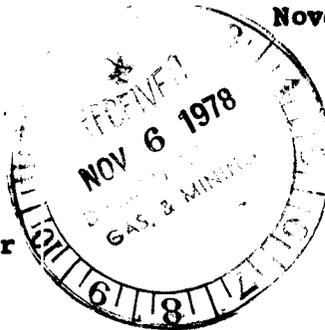
1645 Court Place
Denver, Co. 80202

• Suite 235 •

(303) 573-9593

Asbury
July

November 1, 1978



Mr. Ed Guynn, District Engineer
U.S.G.S.
8440 Federal Building
Salt Lake City, Utah 84138

Re: The Anschutz Corporation
Federal 4076 14-23 *Correct*
Grand County, Utah

Dear Mr. Guynn:

Enclosed please find an amended Application for Permit to Drill the above referenced well along with an amended Ten Point Resource Protection Plan. We were advised by Pete Doty of The Anschutz Corporation that this was the procedure to follow for this particular well.

If additional information is needed, please advise.

Very truly yours,

Kathy Patterson

Enclosure

/kp

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
 DRILL DEEPEN PLUG BACK

b. TYPE OF WELL
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 The Anschutz Corporation

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 At proposed prod. zone same

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19. PROPOSED DEPTH 6400'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5893 ungr.

22. APPROX. DATE WORK WILL START* December 1, 1978

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	8-5/8"	24# K-55	750'	Cement to Surface
7-7/8"	4-1/2"	9.5# K-55	6400'	200 sacks

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 Peter B. Doty TITLE Production Coordinator DATE Oct. 25, 1978
 (This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

T18S, R22E, S.L.B. & M.

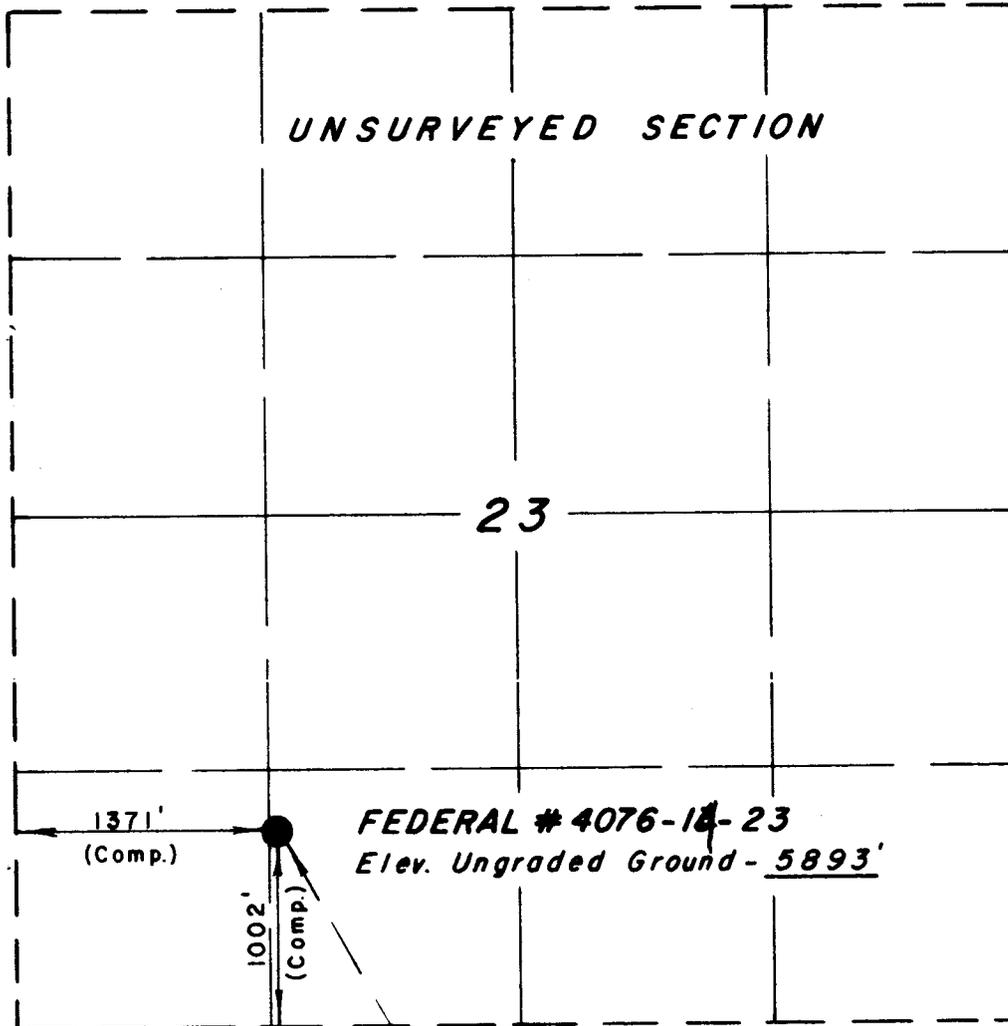
PROJECT

ANSCHUTZ CORPORATION

Well location located as shown in the SE 1/4 SW 1/4 Section 23, T18S, R22E, S.L.B. & M. Grand County, Utah.

NOTE:

Basis of Bears is referenced to Sun Observation taken on October 18, 1978.



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.

Lawrence L. Kay

REGISTERED LAND SURVEYOR
REGISTRATION NO 3137
STATE OF UTAH

X = Section Corners Located

S 29° 29' 02" E - 13,308.85'

X South 1/4 Corner of Section 36,
T18S, R22E, S.L.B. & M.

UINTAH ENGINEERING & LAND SURVEYING
P.O. BOX Q - 110 EAST - FIRST SOUTH
VERNAL, UTAH - 84078

SCALE	1" = 1000'	DATE	October 19, 1978
PARTY	LK RP RP	REFERENCES	GLO Plat
WEATHER	Cool	FILE	ANSCHUTZ CORP.

13 POINT SURFACE USE PLAN

FOR
WELL LOCATION

THE ANSCHUTZ CORPORATION
Federal 14-23
LOCATED IN

SECTION 23, T18S, R22E

GRAND COUNTY, UTAH

1. Existing Roads

See attached Topographic Maps "A" and "B".

To reach The Anschutz Corporation well 4076 14-23 in Section 23, T18S, R22E, Grand County, Utah, proceed west from Grand Junction, Colorado on U. S. 70 for 54 miles. At the Cisco exit, proceed 18.5 miles northwest on Diamond Canyon Road to the proposed location. There is 200' of new road to be built to reach the site located on the left side of the road.

No upgrading of present roads is anticipated.

2. Planned Access Road

See Topographic Map "B".

200' of new access road will need to be built to reach the proposed location. The road will comply with all BLM specifications as required.

3. Location of Existing Wells

(Abandoned) Federal 078 #1 SESE Section 15, T18S, R22E

4. Location of Tank Batteries, Production Facilities, and Production Gathering and Service Lines

All production facilities are to be contained within the proposed location site. There are no other Anschutz Corporation flow, gathering, injection or disposal lines in Section 23.

In the event production is established, plans for a gas line from this location to existing gathering lines or a main production line shall be submitted to the appropriate agencies for approval.

5. Location and Type of Water Supply

Water utilized to drill this well shall be obtained from existing and approved sources in or near the area where the well shall be drilled.

6. Source of Construction Materials

All construction materials for this location site and access road shall be barrow materials accumulated during construction of the location site and access road. No additional road gravels or pit lining materials from other sources are anticipated at this time. It may be necessary to use bentonite to line the pit.

7. Methods for Handling Waste Disposal

A reserve and burn pit shall be constructed, and at least half of the depth of the reserve pit shall be below the existing ground surface. All trash and flammable materials will be burned in the burn pit. Non-flammable materials such as cuttings, salt, chemical, etc., will be buried in the reserve pit and covered with a minimum of four feet of earth material. Prior to the onset of drilling, the burn pit will be fenced on all four sides with net wire, and the reserve pit will be fenced on three sides. Upon completion of drilling, the fourth side of the reserve pit will be fenced and allowed to dry completely before back-filling and reclamation are attempted. A portable chemical toilet will be supplied for human waste.

8. Ancillary Facilities

There are no ancillary facilities planned for at the present time and none foreseen in the near future.

9. Well Site Layout

See attached location layout sheet. The BLM District Manager or other appropriate agencies shall be notified before any construction begins on the proposed location site. When Drilling activities commence, all work shall proceed in a neat and orderly sequence.

Also see attached layout for frac operation.

10. Plans for Restoration of Surface

Upon completion of operation, and if well is to be abandoned, the location will be backfilled, leveled, and contoured to as nearly the original topography as is feasible. Any waste material which can be buried without causing environmental damage will be collected and buried in the burn/or reserve pit. Any other waste will be taken to a sanitary landfill for disposal. During drilling operations the reserve pit will be fenced

on three sides. Only the rig side will remain unfenced. The remaining side will be fenced as soon as the rig equipment is moved to allow fencing crews access. This fence will be kept sheep tight and kept in good repair until final cleanup is undertaken. Any oil on the reserve pit will be removed or overhead flaging installed to prevent birds from landing. The top soil will be evenly spread over the entire location after contouring is complete. The area will then be reseeded with recommendations from the surface owner and/or BLM. All access roads built by The Anschutz Corporation will be rehabilitated the same as the location.

Ninety days after completion of drilling and completion operation, the surface will be recontoured in such a manner as not to interfere with production activities. Re-seeding, if any needed, shall take place in the fall, or at the instruction of the BLM District Manager.

11. Other Information

The topography of the general area is mountainous and cut with numerous canyons. The majority of the washes and streams in the area are of a non-perennial nature flowing during the early spring runoff and extremely rare. The location itself is set at the head of a small canyon. There is a wash to the south of the location. There is a large outcropping of rock to the north of the location leading up to the canyon wall. The normal annual rainfall in the area is only 8".

The soils in this semi-arid area are of the Green River formation (Middle Eocene) and the Wasatch formation (Lower Eocene) consisting of light brownish-gray clays (OL) to sandy soils (SM-ML) with poorly graded gravels. Outcrops of sandstone ledges, conglomerate deposits and shale are common on this area. The topsoils in the area range from sandy clay (SM-ML) to clayey (OL) soil.

Due to the low amount of average precipitation, climate conditions and the marginal soils, the vegetation that is found in the area is common to the semi-arid region we are located in. In the lower elevations it consists of juniper and pinion pine forests as the primary flora with areas of sagebrush, rabbit brush, some grasses and cacti.

The fauna of the area consist mainly of mule deer, coyote, rabbit and varieties of small ground squirrels and other types of rodents. The area is used by man primarily for grazing sheep and cattle. The birds in the area are raptors, finches, ground sparrows, magpies, crows and jays.

There are no occupied dwellings or other facilities of this nature in the general area. There are no visible archaeological, historical or cultural sites within any reasonable proximity of the proposed location sites.

12. Lessee's or Operator Representative

Envirotek
1645 Court Place
Denver, CO 80202
(303) 573-9593
Kathy Patterson

The Anschutz Corporation
2400 Anaconda Tower
515 17th Street
Denver, CO 80202
(303) 825-6100
Pete Doty

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite 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 associated with the operations proposed herein will be performed by The Anschutz Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

The Anschutz Corporation

Peter B. Doty

THE ANSCHUTZ CORPORATION

TEN POINT (10) RESOURCE PROTECTION PLAN

Well : Federal 4076 14-23
Location : Section 23, T 18 S, R 22 E
County & State : Grand County, Utah
Federal Lease Number : U-14076
|

1. Geologic Name of Surface Formation:

Wasatch

2. Estimated Tops of Important Geologic Markers:

Castlegate	1895'
Mancos	2077'
Dakota Sand	5523'
Cedar Mountain	5689'
Morrison	5764'
Salt Wash	5961'
Sommerville	6227'
Entrada	6289'
Total Depth	6400'

3. Estimated Depths of Mineral Bearing Formations:

Of the formations listed above, the Dakota Sand, Cedar Mountain, Morrison and Salt Wash may be oil and gas bearing in this well.

If any water flows are encountered, they will be adequately protected and reported.

4. Casing Program:

Surface Casing	8-5/8" 24# K-55 set at approximately 750' and cemented to surface.
Production Casing	4-1/2" 9.5# K-55 new casing to be set at approximately 6400' and cemented with 200 sacks.

5.. Pressure Control - Blowout Preventors:

The blowout preventor specifications and schematic is attached hereto as a separate exhibit (Exhibit "A"). BOP to be tested to at least the designed working pressure which in this case is 3000 psi, and such tests shall be run prior to drilling out from under surface pipe and each day thereafter until well has reached total depth.

6. Drilling Fluids:

It is proposed that the hole will be drilled to total depth using air and air mist as necessary in order to clean the hole.

7. Auxiliary Equipment:

A float at the bit and a sub on the floor with a full opening valve to be stabbed into the drill pipe when the Kelly is not in the string.

8. Logging Program:

The logging program will consist of a Dual Induction Laterolog, and a Compensated Neutron Formation Density Log.

Cores and drill stem tests will be run as required.

9. Abnormal Pressure, Temperature, Potential Hazards:

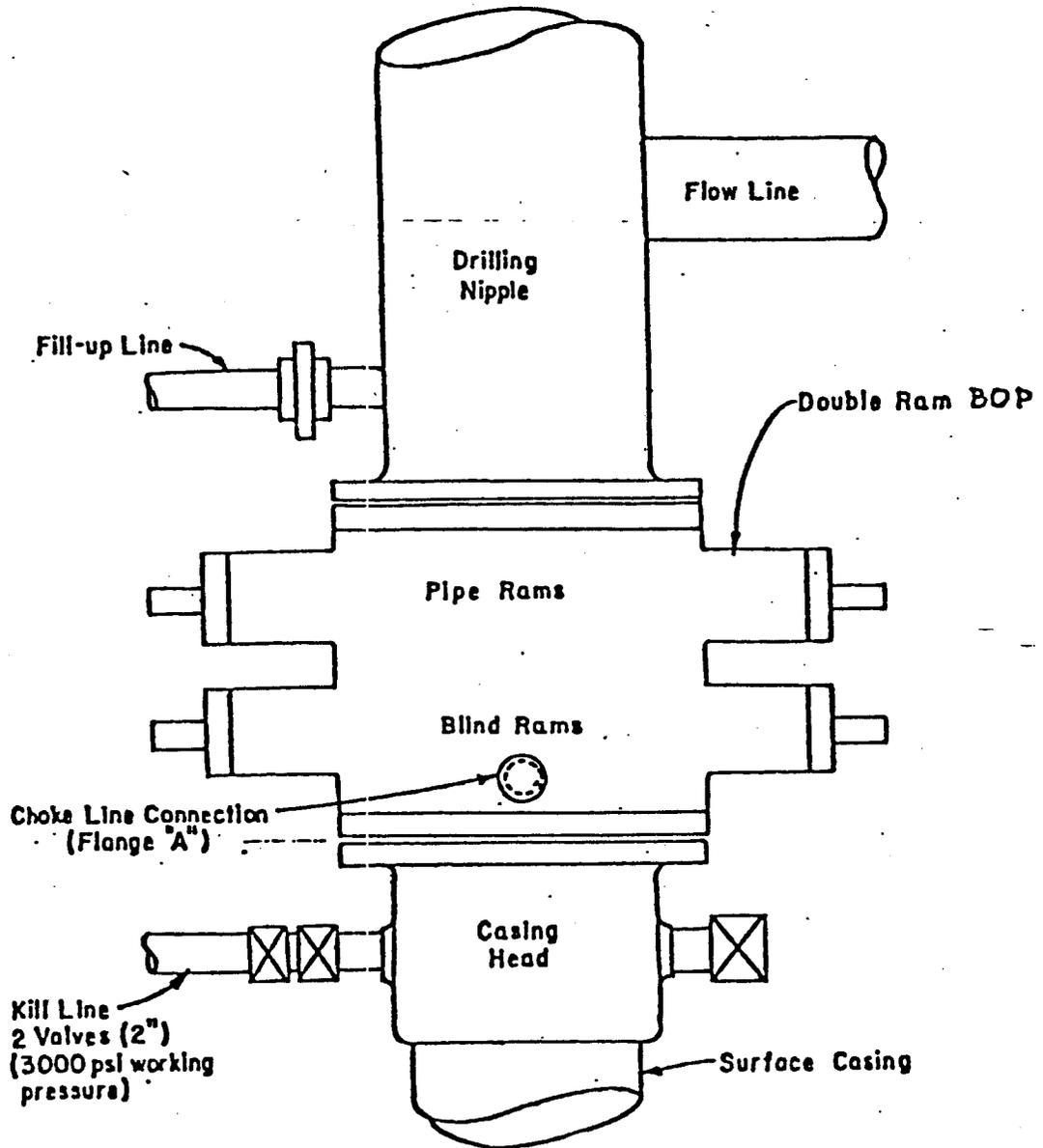
It is not anticipated that abnormal pressures or temperatures will be encountered, nor that any other abnormal hazards such as H₂S gas will be encountered in this area.

10. Starting Date - Completion:

The anticipated starting date is December 1, 1978 with approximately **thirty days** for building access road, location and drilling to total depth. If production casing is run approximately 30 days for completion operations.

BOP Schematic

Federal 4076 14-23
Section 23, T18S, R22E



ANSCHUTZ CORPORATION
PROPOSED LOCATION
FEDERAL # 4076-18-23

TOPO.

MAP "A"

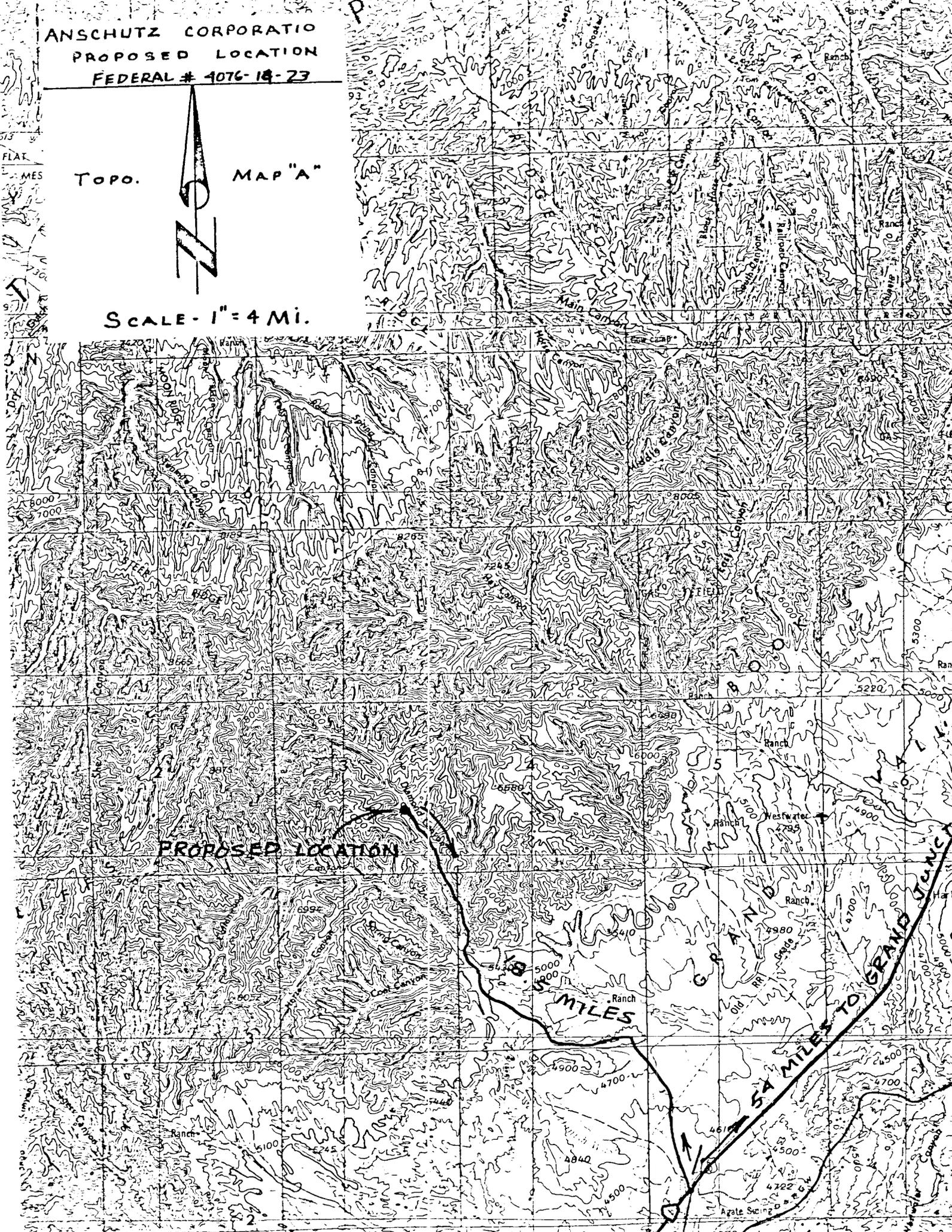


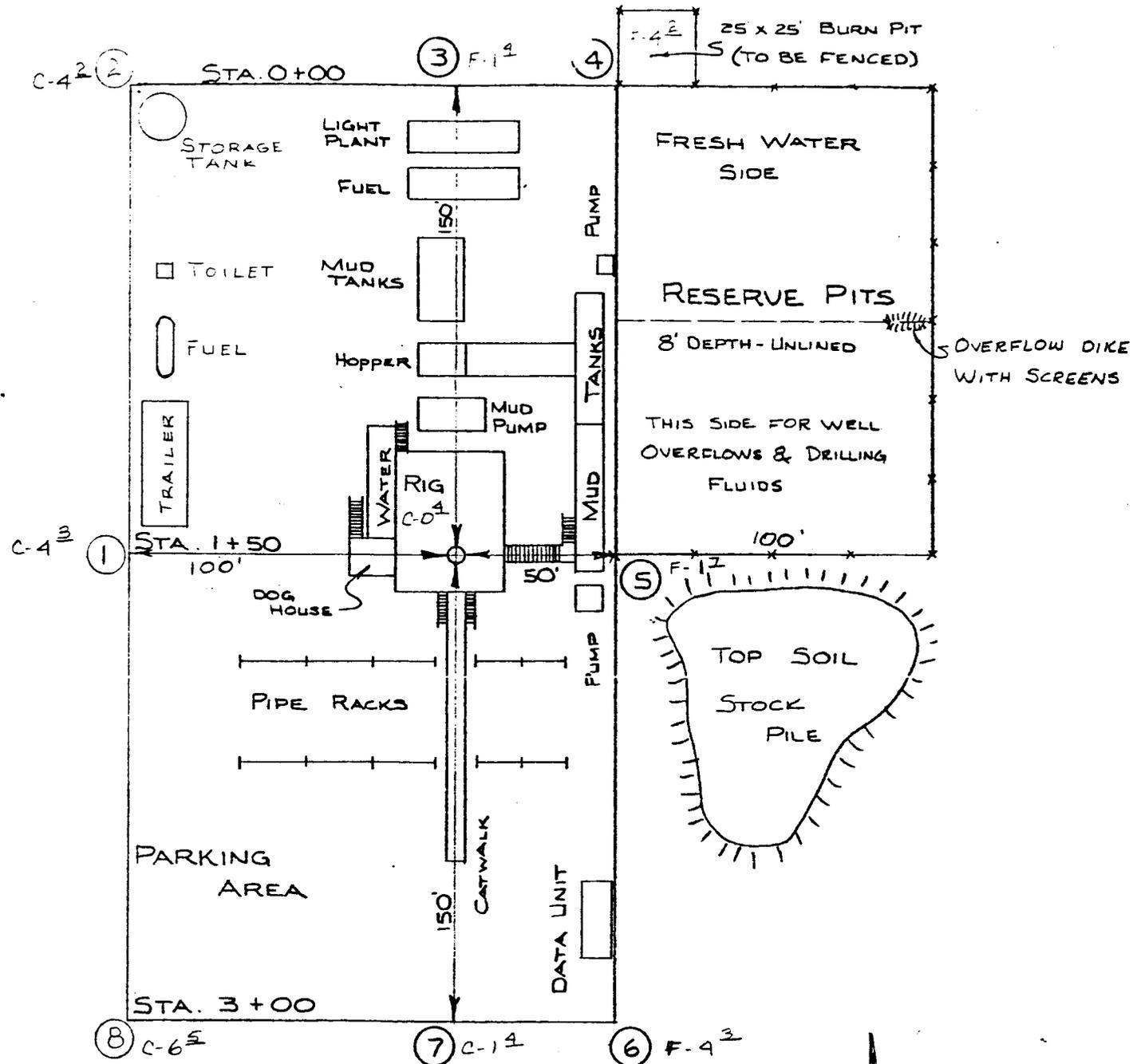
SCALE - 1" = 4 MI.

PROPOSED LOCATION

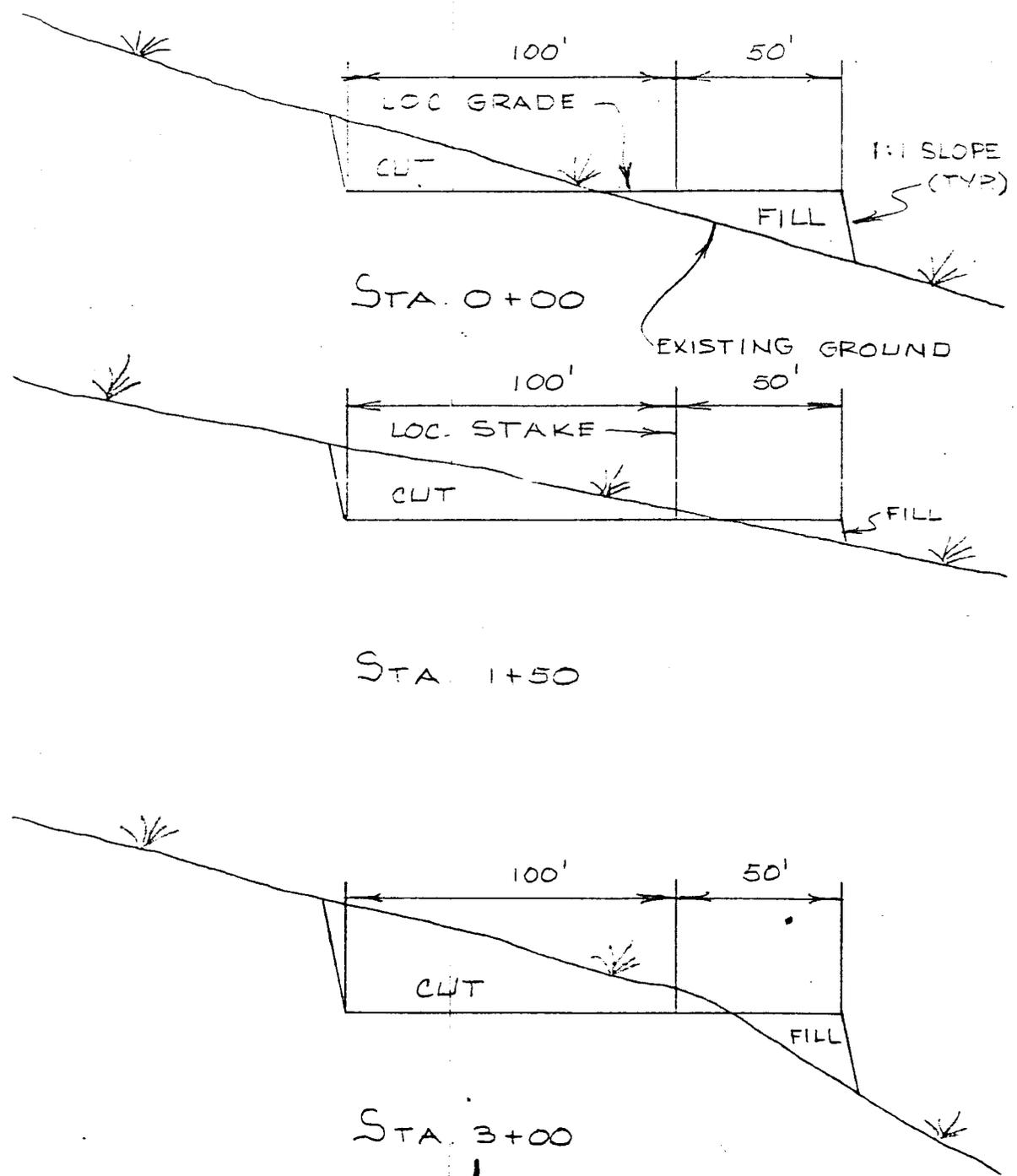
54 MILES

54 MILES TO GRAND JUNCTION



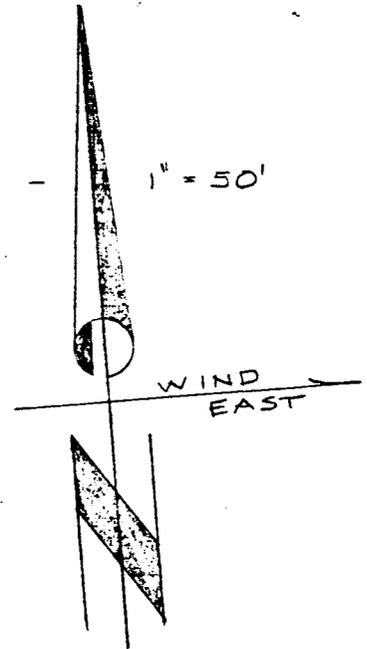


ANSCHUTZ CORPORATION
FEDERAL HIGHWAY 423
LOCATION LAYOUT & CUT SHEET



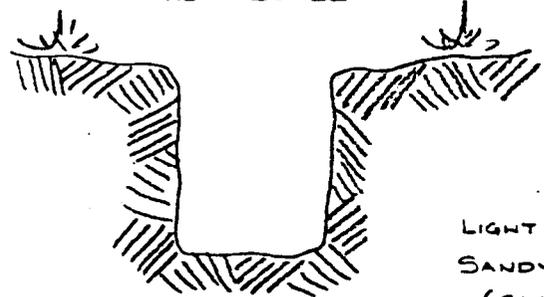
UNZ-TCM USUR

SCALE - 1" = 50'



SOILS LITHOLOGY

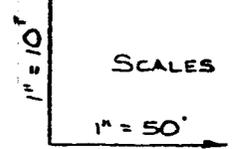
NO - SCALE



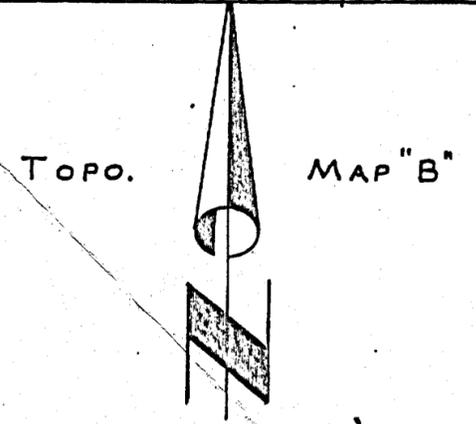
LIGHT BROWN SANDY CLAY (SM-CL)

APPROX. YARDAGES

CUT	2,992	Cu. YDS.
FILL	914	Cu. YDS.



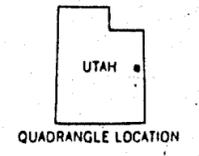
ANSCHUTZ CORPORATION
PROPOSED LOCATION
FEDERAL # 1076-14-23



TOPO. MAP "B"

SCALE - 1" = 2000'

- ROAD CLASSIFICATION
- | | | | |
|---------------------------------|-------|---|-------|
| Primary highway, hard surface | ————— | Light duty road, hard or improved surface | ————— |
| Secondary highway, hard surface | ————— | Unimproved road | |
- Interstate Route □ U. S. Route ○ State Route



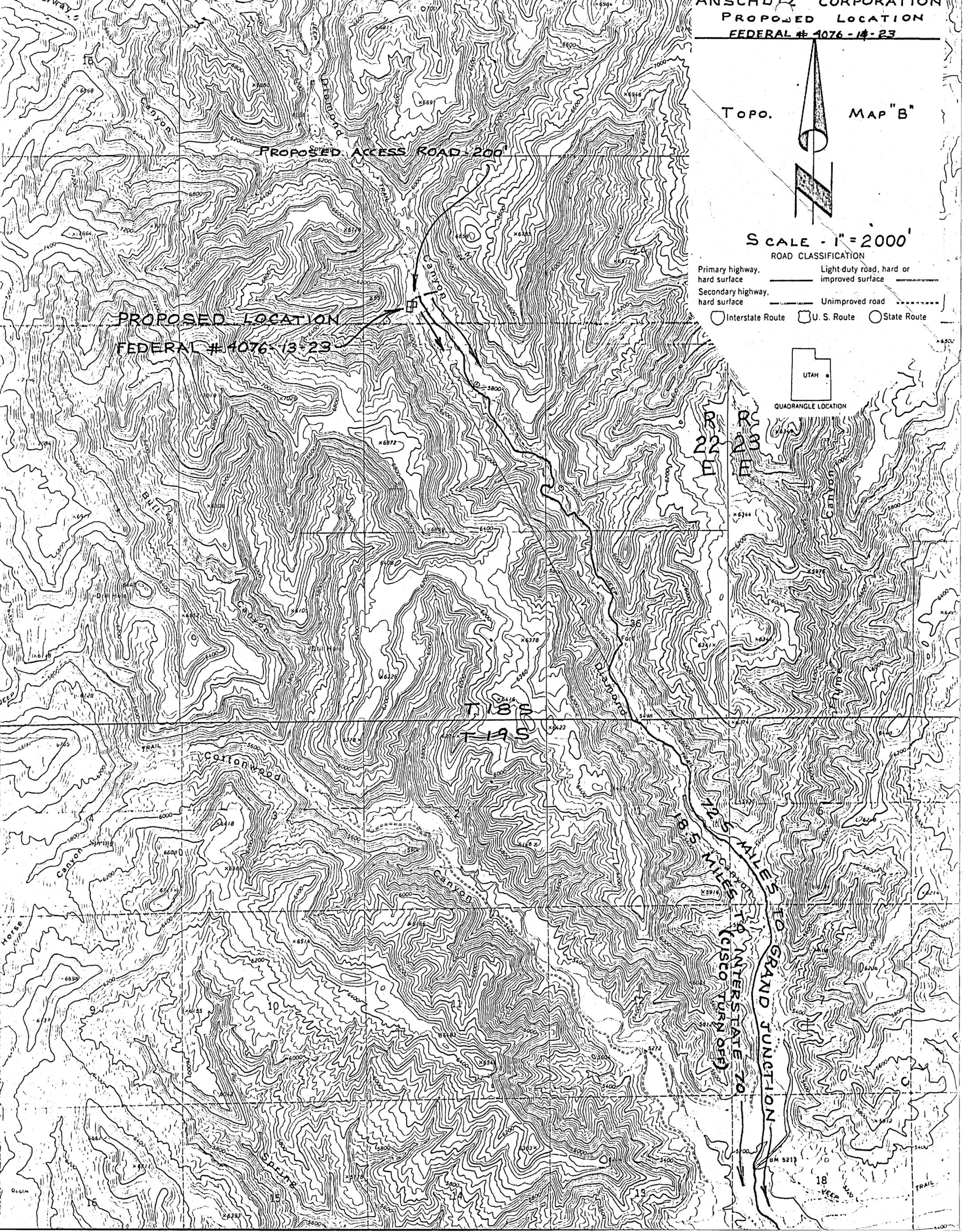
QUADRANGLE LOCATION

PROPOSED ACCESS ROAD - 200'

PROPOSED LOCATION
FEDERAL # 1076-13-23

TO INTERSTATE 70
(CISTO TURN OFF)

TO GRAND JUNCTION



STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

** FILE NOTATIONS **

Date: Nov. 13 -
Operator: ~~Ginschutz Corp.~~ Texoma Production
Well No: Spd. 4076 - 14-23
Location: Sec. 23 T. 18S R. 22E County: Grand
File Prepared: Entered on N.I.D.:
Card Indexed: Completion Sheet:
API Number: B-019-30474

CHECKED BY:

Administrative Assistant: [Signature]
Remarks: No other wells - Sec. 23 - Unit Well
Petroleum Engineer: _____
Remarks: 7
Director: _____
Remarks: _____

INCLUDE WITHIN APPROVAL LETTER:

Bond Required: Survey Plat Required:
Order No. _____ Surface Casing Change
to _____
Rule C-3(c), Topographic exception/company owns or controls acreage
within a 660' radius of proposed site
O.K. Rule C-3 O.K. In Grand Unit
Other: Canyon

Letter ~~written~~ / Approved

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(Other instructions on the
reverse side)

Form approved.
Budget Bureau No. 42-R1424.
5. LEASE DESIGNATION AND SERIAL NO.

U-14076

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals.)

1. OIL WELL GAS WELL OTHER **Wildcat**

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
2400 Anaconda Tower 555 17th Street Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.)
At surface
1371' FWL, 1002' FSL Section 23, T18S, R22E

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
5893' ungr.

9. UNIT AGREEMENT NAME
Diamond Canyon

10. FARM OR LEASE NAME
Federal 4076

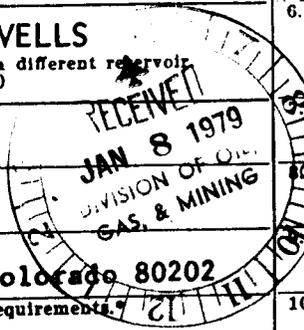
11. WELL NO.
14-23

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 23, T18S, R22E

12. COUNTY OR PARISH
Grand

13. STATE
Utah



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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) _____	
(Other) New location layout <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

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

Per the request of John Evans 11-20-78, enclosed please find a corrected location layout, along with a frac diagram.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING
DATE: Jan 9 1979
BY: [Signature]

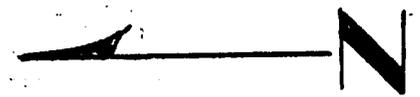
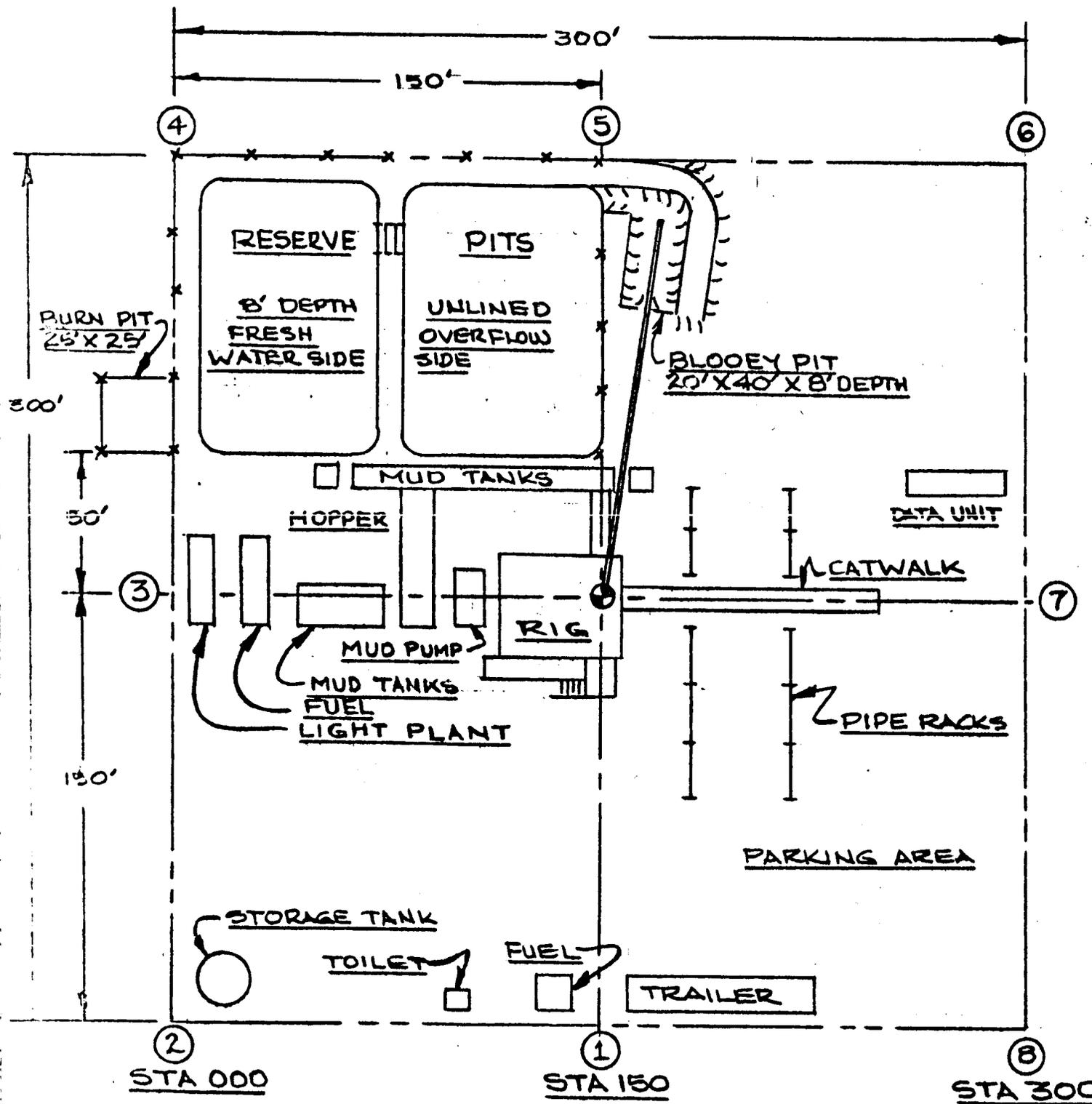
18. I hereby certify that the foregoing is true and correct

SIGNED [Signature] TITLE Production Coordinator DATE December 19, 1978

(This space for Federal or State office use)

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

*See Instructions on Reverse Side

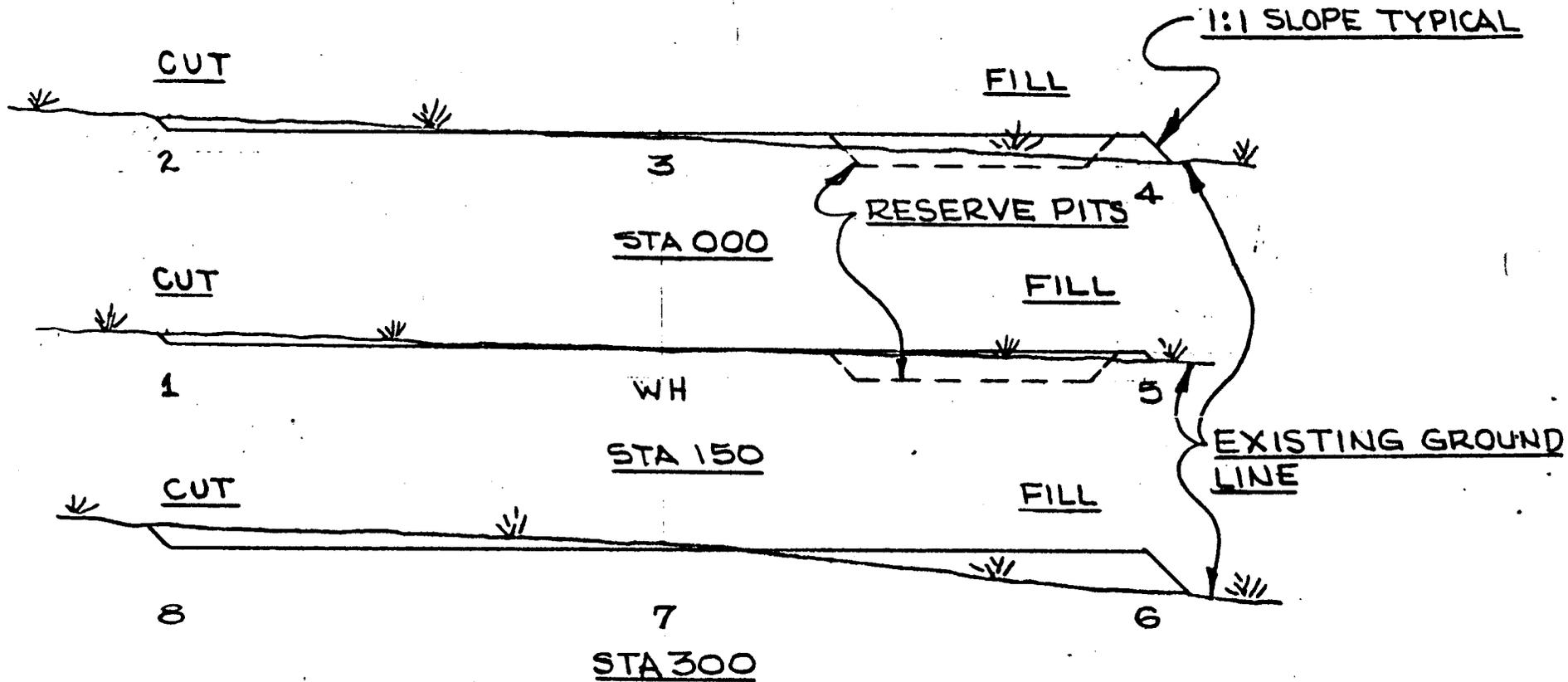


CUT & FILL SCHEDULE (FT)

POINT	CUTS	FILL
1	4±	
2	4±	
3		1±
4		9±
5		3±
6		13±
7	1±	
8	6±	
WH	0±	

LOCATION LAYOUT

ANSHUTZ CORPORATION
 FEDERAL 4076
 ENVIROTEK CO.
 LOC: SEC 23 TWP 18 R 6 Z 2E
 SCALE: 1" = 50'
 DRAWN BY: R. CULP



CUT & FILL PROFILE

SCALE: 1" : 50'

DATE: 12-18-78

APPROVED BY:

ENVIROTEK

DRAWN BY REC

REVISED

ANSHUTZ CORPORATION

FEDERAL 4076

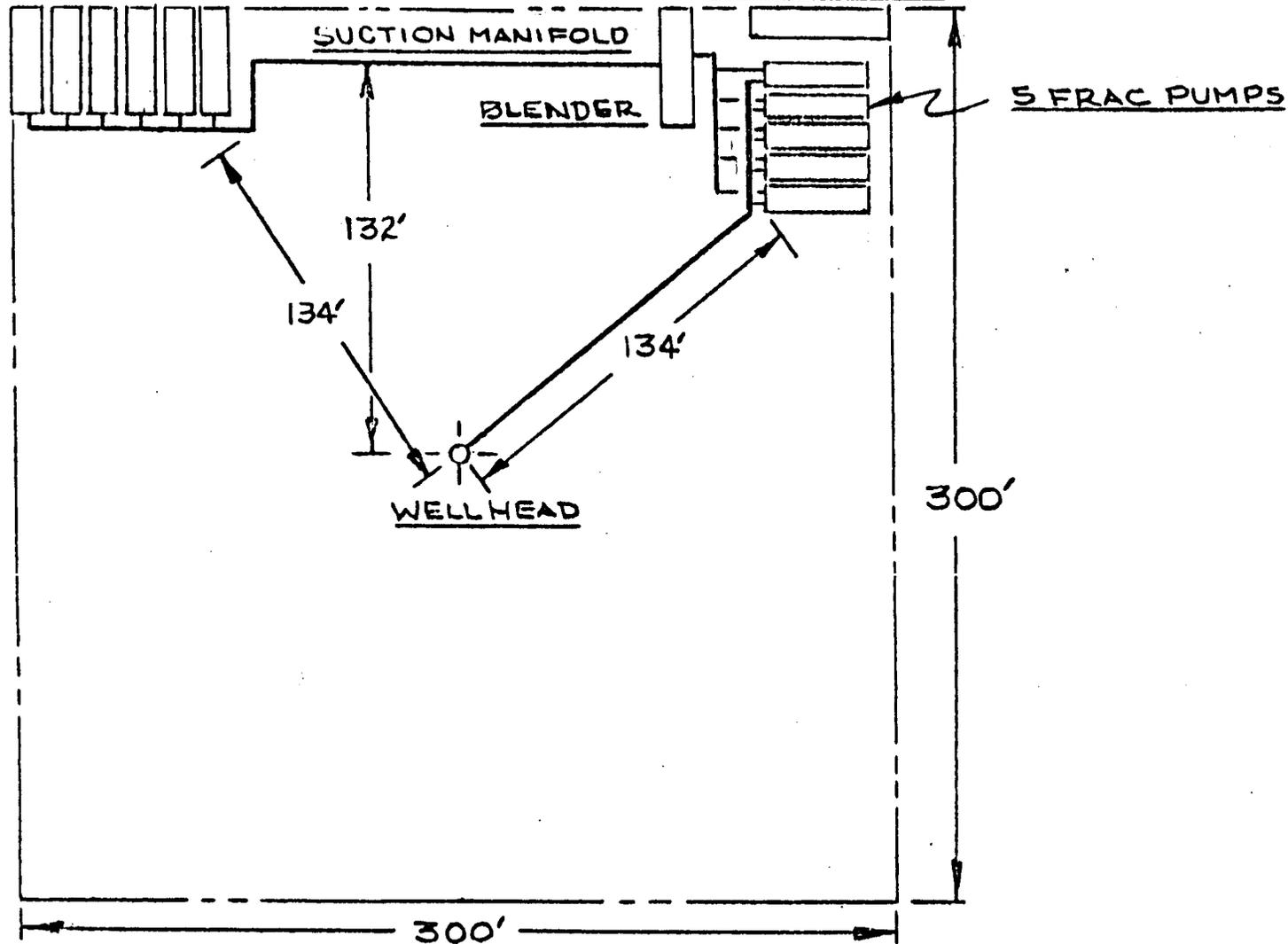
LOCATION:

SEC 23 TWP 18S RANGE 22E

DRAWING NUMBER

6 FRAC TANKS

SAND STORAGE



FRAC DIAGRAM

SCALE: 1" = 60'

APPROVED BY:

ENVIROTEK

DRAWN BY REC

DATE: 12-18-78

REVISED

WELL NO. 14-23 ; LEASE FED 4076
LOCATION: SEC 23 TWP 18S RANGE 22E

ANSCHUTZ CORPORATION

DRAWING NUMBER

United States Department of the Interior
Geological Survey
8440 Federal Building
Salt Lake City, Utah 84138

Usual Environmental Analysis

Lease No. U-14076

Operator Anschutz Corporation

Well No. 14-23

Location 1371' FWL 1002' FSL

Sec. 23

T. 18S.

R. 22E.SLB & M

County Grand

State Utah

Field Wildcat

Status: Surface Ownership Federal

Minerals Federal

Joint Field Inspection Date November 20, 1978

Participants and Organizations:

Rocky Curnutt

Bureau of Land Management

Peter Dofy

Anschutz Corporation

Robert Culp

Envirotek

Kathy Patterson

Envirotek

Leonard Lewis

Mike's Water & Dozer Service

Carmen Beightel

Bureau of Land Management

John Evans

U.S. Geological Survey

Related Environmental Analyses and References:

(1) Book Mountain Unit Resource Analysis, BLM, Utah

(2) EA No.

Handwritten notes:
Pad 165 x 300
50 x 150
1/10 mi new access
5 mi upgrade exist road
Prod flow line not in
Site use 1/2 per Sapp
SN 12/19/78
Stockpile topsoil
2 ac

Analysis Prepared by: John Evans
Environmental Scientist
Grand Junction, Colorado

Reviewed by: George Diwachak
Environmental Scientist
Salt Lake City, Utah

Date November 22, 1978

Noted - G. Diwachak

Proposed Action:

On October 30, 1978, Anschutz Corporation filed an Application for Permit to Drill the No. 14-23 exploratory well, a 6400-foot oil and gas test of the Dakota, Cedar Mountain, Morrison and Salt Wash Formations; located at an elevation of 5893 ft. in the SE $\frac{1}{4}$ NE $\frac{1}{4}$ Sec. 23, T. 18S., R. 22E., SLB & M on Federal surface; Lease No. U-14076. There was no objection raised to the wellsite nor to the access road.

A rotary rig would be used for the drilling. An adequate casing and cementing program is proposed. Fresh-water sands and other mineral-bearing formations would be protected. A Blowout Preventor would be used during the drilling of the well. The proposed pressure rating should be adequate. Details of the operator's NTL-6 10-Point Subsurface and 13-Point Surface Protection Plans are on file in the U.S.G.S. District Office in Salt Lake City, Utah and the U.S.G.S. Northern Rocky Mountain Area Office in Casper, Wyoming.

A working agreement has been reached with the Bureau of Land Management, the controlling surface agency. Rehabilitation plans would be decided upon as the well neared completion; the Surface Management Agency would be consulted for technical expertise on those arrangements.

The operator proposes to construct a drill pad 165 ft. wide x 300 ft. long and a reserve pit 50 ft x ft. 150 ft. A new access road would be constructed 18 ft. wide x 0.1 miles long. An existing road would be upgraded to 18 ft. wide by 5 miles.

If production is established, plans for production facilities would be submitted to the appropriate agencies for approval. The anticipated starting date is April, 1979 and duration of drilling activities would be about 30 days.

Operator indicated that he would use an emulsion type completion operations. The surface use plan did not contain a frac diagram and the operator would be required to supplement his surface use plan. A new Drill Rig Layout plan is required as an air drilling rig would be used. A blooie pit would be required. No Production Facility Layout supplied - Operator said he could not provide this data at this time.

Location and Natural Setting:

The proposed drill site is approximately 20 miles NE of Cisco, Utah, the nearest town. A fair road runs to within 0.1 mile of the location. This well ia wildcat well in the Diamond Canyon Unit.

Topography:

The proposed location is 1000' E. of Diamond Canyon Creek near junction of small side canyon. The location slopes to the south at 3 to 5%. A small drainage runs along the east side of the drill pad and reserve pit would be constructed in this natural low spot. This drainage pattern drains only the local area around the pad and should not cause any serious environmental hazards by being blocked by reserve pit construction.

Geology:

The surface geology is Wasatch. The soil is silty-clay. No geologic hazards are known near the drillsite, however there are sandstone cliffs on the northwest corner of the drill pad. Large boulders have landed on the extreme edge of the proposed drill pad. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Sub-surface Protection Plan.

Approval of the proposed action would be conditioned that adequate and sufficient electric/radioactive/density logging surveys would be made to locate and identify any potential mineral resources. Production casing and cementing would be adjusted to assure no influence of the hydro-carbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs would be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist. Loss of circulation may result in the lowering of the mud levels, which might permit exposed upper formations to blow out or to cause formation to slough and stick to drill pipe. A loss of circulation would result in contamination due to the introduction of drilling muds, mud chemicals, filler materials, and water deep in to the permeable zone, fissures, fractures, and caverns within the formation in which fluid loss is occurring. The use of special drilling techniques, drilling muds, and lost circulation materials may be effective in controlling lost circulation.

A geologic review of the proposed action has been furnished by the Area Geologist, U.S. Geological Survey, Salt Lake City, Utah.

The operator's drilling, cementing, casing and blowout prevention programs have been reviewed by the Geological Survey engineers and determined to be adequate. Surface casing may require modification to protect ground water. The operator requested a change of casing programs to only 100' of surface casing. This may not be adequate.

←
CIC for 350'
Sur C 59
Well # 258-6

Soils:

No detailed soil survey has been made of the project area. The top

soils in the area range from a sandy clay to a clay type soil. The soil is subject to runoff from rainfall and has a high runoff potential and sediment production would be high. The soils are mildly to moderately alkaline and support the salt-desert shrub community. The pinon, juniper association is also present.

Top soil would be removed from the surface and stockpiled. The soil would be spread over the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposes to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 2 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeding of slope-cut area would minimize this impact.

The existing access road would require additional upgrading to control erosion that would occur from travel over the road. Diamond Creek runs year round and is a valuable water resource to the area. The operator has previously upgraded the road; however additional upgrading is necessary due to the fragile soils that the road traverses and the close proximity to Diamond Creek.

Air:

No specific data on air quality is available at the proposed location. There would be a minor increase in air pollution due to emissions from rig and support traffic engines. Particulate matter would increase due to dust from travel over unpaved dirt roads. The potential for increased air pollution due to leaks, spills, and fire would be possible.

Relatively heavy traffic would be anticipated during the drilling-operations phase, increasing dust levels and exhaust pollutants in the area. If the well was to be completed for production, traffic would be reduced substantially to a maintenance schedule with a corresponding decrease of dust levels and exhaust pollutants to minor levels. If the project results in a dry hole, all operations and impact from vehicular traffic would cease after abandonment. Due to the limited number of service vehicles and limited time span of their operation, the air quality would not be substantially reduced.

Toxic or noxious gases would not be anticipated.

The proposed well would be air drilled. If dust from drilling is not controlled severe dust levels would occur locally. The operator was requested and agreed to control dust from his operation. The blooie pit would also be constructed with a high berm to help contain cuttings in the pit.

Precipitation:

Annual rainfall should range from about 10 to 15" at the proposed location. The majority of the numerous drainages in the surrounding area are of a non-perennial nature flowing only during early spring runoff and during extremely heavy rain storms.

Diamond Creek runs year round and may at times prevent access to the drill site during high flow or runoff events.

Winds are medium and gusty, occurring predominately from west to east. The climate is semi-arid with abundant sunshine, hot summers and cold winters with temperature variations on a daily and seasonal basis.

Surface Water Hydrology:

The proposed location is approximately 1000' east of Diamond Creek. Construction of the drill pad should have minor impact on the surface water systems. The routine use of the access road to the site is subject to heavy erosion that could result in degradation of Diamond Creek. Additional water bars, drainage control and surfacing material would be required. The BLM will make specific recommendations and have requested that they be present during construction activities.

Some additional erosion would be expected in the area since surface vegetation would be removed. To control erosion, drainage systems such as water bars and dikes would be installed to minimize the problem. The proposed project should have minor impact on the surface water systems if extensive erosion control is completed on the access road. The potentials for pollution would be present from leaks or spills. The operator is required to report and clean-up all spills or leaks.

Ground Water Hydrology:

Some minor pollution of ground water systems would occur with the introduction of drilling fluids (filtrate) into the aquifer. This is normal and unavoidable during rotary drilling operations. The potential for communication, contamination and comingling of formations via the well bore would be possible. The drilling program is designed to prevent this. There is need for more data on hydrologic systems in the area and the drilling of this well may provide some basic information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirements of NTL-2B. The depths of fresh water formations are listed in the 10-Point Subsurface Protection Plan. There would be no tangible effect on water migration in fresh water aquifers. The pits would be unlined. If fresh water should be available from the well, the owner or surface agency may request completion as a water well if given approval.

Fresh water sands may be encountered in the Wasatch and Mesa Verde Formations. The operator did not report that he encountered any fresh water in nearby abandoned hole in Sec. 15. If fresh water is encountered, modification of the casing program would be required.

Vegetation:

Plants in the area are of the salt-desert-shrub types grading to the pinon-juniper association.

Proposed action would remove about 2 acres of vegetation. Removal of vegetation would increase the erosional potential and there would be a minor decrease in the amount of vegetation available for grazing.

The operator proposes to rehabilitate the surface upon completion of operations.

The operator would also be required to rehabilitate areas not needed in production.

Wildlife:

Animal and plant inventory has been made by the BLM. No endangered plants or animals are known to habitat on the project area. The fauna of the area consists predominantly of mule deer, coyotes, rabbits, foxes, wapiti, and varieties of small ground squirrels and other types of rodents and various types of reptiles. The area is used by man for the primary purpose of grazing domestic livestock and sheep. The birds of the area are raptors, finches, ground sparrow, magpies, crows, and jays.

An elk winter range area is located about one mile to the north of the proposed location. Minor or no impact is anticipated.

Social-Economic Effect:

An on the ground surface archaeological reconnaissance would be required prior to approval of the proposed action. Appropriate clearances would then be obtained from the surface managing agency. If a historic artifact, an archaeological feature or site is discovered during construction operations; activity would cease until the extent, the scientific importance, and the method of mitigating the adverse effects could be determined by a qualified cultural resource specialist.

There are no occupied dwellings or other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and is judged to be minor. All permanent facilities placed on the location would be painted a color to blend in with the natural environment. Present use of the area is grazing, recreation, and oil and gas activities.

Noise from the drilling operation may temporarily disturb wildlife and people in the area. Noise levels would be moderately high during drilling and completion operations. Upon completion, noise levels would be infrequent and significantly less. If the area is abandoned, noise levels should return to pre-drilling levels.

The site is not visible from any major roads. After drilling operations, completion equipment would be visible to passersby of the area but would not present a major intrusion.

The economic effect on one well would be difficult to determine. The overall effect of oil and gas drilling and production activity are significant in Grand County.

But should this well discover a significant new hydrocarbon source, local, state, and possible national economics might be improved. In this instance, other development wells would be anticipated, with substantially greater environmental and economic impacts.

Should the wellsite be abandoned, surface rehabilitation would be done according to the surface agency's requirements and to USGS's satisfaction. This would involve leveling, contouring, reseeding, etc., of the location and possibly the access road. If the well should produce hydrocarbons, measures would be undertaken to protect wildlife and domestic stock from the production equipment.

There are no national, state, or local parks, forests, wildlife refuges or ranges, grasslands, monuments, trails or other formally designated recreational facilities near the proposed location.

The proposed location is within the Book Mountain Planning Unit. This Environmental Assessment Record was compiled by the Bureau of Land Management, the surface managing agency of the Federal surface in the area. The study includes additional information on the environmental impact of oil and gas operations in this area and gives land use recommendations. The E.A.R. is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserves pits would contain all fluids used during the drilling operations. A trash pit would be utilized for any solid wastes generated at the site and would be buried at the completion of the operations. Sewage would be handled according to State sanitary codes. For further information, see the 13-Point Surface Plan.

Alternative to the Proposed Action:

1) Not Approving the Proposed Permit--The Oil and Gas Lease Grants The Lessee Exclusive Right To Drill For, Mine, Extract, Remove and Dispose Of All Oil and Gas Deposits.

Under leasing provisions, the Geological Survey has an obligation to allow mineral development if the environmental consequences are not too severe or irreversible. Upon rehabilitation of the site, the environmental effects of this action would be substantially mitigated, if not totally annulled. Permanent damage to the surface and subsurface would be prevented as much as possible under U.S.G.S. and other controlling agencies supervision with rehabilitation planning reversing almost all effects. Additionally, the growing scarcity of (oil and gas) should be taken into consideration. Therefore, the alternative of not proceeding with the proposed action at this time is rejected.

2) Minor relocation of the wellsite would not significantly reduce the environmental impact. There are no severe vegetative, animal, or archaeological-historical-cultural conflicts at the site. Since only a minor impact on the environment would be expected, the alternative of moving the location is rejected. At abandonment, normal rehabilitation of the area such as contouring, reseeding, etc., would be undertaken with an eventual return to the present status as outlined in the 13-Point Surface Plan.

The operator is to provide USGS and BLM with a new Drill Rig Layout and Drill Pad Diagram prior to approval. Production facilities are not approved. The operator proposes emulsion type frac and the frac diagram would be required with a Sundry Notice for approval. The access road requires extensive upgrading to control erosion per BLM specifications. (See field copy of A.P.D. for recommended changes) Surface use plan not signed. (Signed copy in file)

Adverse Environmental Effects Which Cannot be Avoided:

Surface disturbance and removal of vegetation from approximately 2 acres of land surface for the lifetime of the project which would result in increased and accelerated erosional potential. Grazing would be eliminated in the disturbed areas and there would be a minor and temporary disturbance of wildlife and livestock. Minor induced air pollution due to exhaust emissions from rig engines of support traffic engines would occur. Minor increase in dust pollution would occur due to vehicular traffic associated with the operation. If the well is a gas producer, additional surface disturbance would be required to install production pipelines. The potential for fires, leaks, spills of gas, oil or water would exist. During the construction and drilling phases of the project, noise levels would increase. Potential for sub-surface damage to fresh water aquifers and other geologic formations exists. Minor distractions from aesthetics during the lifetime of the project would exist. If the well is a producer, an irreplaceable and irretrievable commitment

of resources would be made. Erosion from the site would eventually be carried as sediment in Diamond Creek. The potential for pollution to Diamond Creek would exist through leaks and spills.

Determination:

This requested action ~~does~~/does not constitute a major Federal action significantly affecting the environment in the sense of NEPA, Sec. 102 (2)(C).

1/3/79
Date

A handwritten signature in cursive script, appearing to read 'E. L. ...', is written over a horizontal line.
District Engineer
U.S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
THE ANSCHUTZ CORPORATION #14-23	1371' FWL & 1002' FSL (SE 1/4 SW 1/4) SEC. 23 T. 18S., R. 22E., SLM GRAND COUNTY, UTAH G.F.E.I. 5893'	U-14076
<p>1. Stratigraphy and Potential Oil and Gas Horizons. The surface rocks are Tuscher which are primarily conglomeratic fluvial sandstones. The Tuscher Formation lies stratigraphically between the Wasatch Formation and the Mesaverde group. The Dakota sand, Cedar Mountain and horizon could contain oil and gas. Operator's estimated tops appear reasonable.</p>		
<p>2. Fresh Water Sands. Usable water may be found in the sands of the Tuscher Formation and Mesaverde. Deeper aquifers such as the Dakota probably contain saline water or brine.</p>		
<p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Site falls within an area considered valuable prospectively for coal. The Nestler member (Chesterfield and Palisade coal zones) of the Price River Formation (Mesaverde) contains coal beds. The coal beds lie above the Castlegate sandstone. The coals are probably thin and discontinuous in this area of the Book Cliffs. (Fisher, 852)</p>		
<p>4. Possible Lost Circulation Zones. Unknown.</p>		
<p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. aquifers penetrated. Protect any fresh/usable</p>		
<p>6. Possible Abnormal Pressure Zones and Temperature Gradients. None anticipated by operator. Hazards such as H₂S gas are not expected to occur in this area.</p>		
<p>7. Competency of Beds at Proposed Casing Setting Points. Unknown.</p>		
<p>8. Additional Logs or Samples Needed. The logging program proposed by the operator should be adequate to delineate coals in Mesaverde.</p>		
<p>9. References and Remarks Within 2 mile radius of Book Cliffs KGS. USGS Bull 852, Fisher (PLATE 10)</p>		
Date: 11/9/78		Signed: REG

Prepared from FID Notes - 11/28/76 JE
Anschutz 14-23

UNITED STATES GOVERNMENT

1" = 50' on 23 18 22E



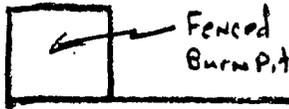
14-23-25-0000

Memorandum

TO :
FROM :
SUBJECT:

DATE:

access ROAD



Stack pile top 12" soil

Additional area Available for trial TOP - Sunday notice required -

50'

10' Deep (may be made larger if necessary)

Fenced prior to drilling -

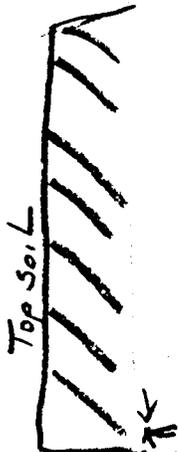
100'

125' MIN.

Ditch

Blochie pit 25' x 25'

High BERM



300'



150'

* Too close to Blochie pit -
MOVE DATA UNIT -

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan





2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-825-6100
TWX 910-931-2620



May 15, 1979

Mr. Cleon B. Feight, Director
Division of Oil, Gas & Mining
State of Utah
1588 West, North Temple
Salt Lake City, Utah 84116

Dear Mr. Feight:

The following wells have not commenced drilling and have been removed from our active files. Hence we no longer plan upon drilling them.

Federal 335 No. 2
Federal 335 No. 4
Federal 4275 No. 1
Federal 7674 No. 1

The following wells have not yet commenced drilling pending further geological evaluation:

Federal 258 No. 4
Federal 258 No. 7
Federal 258 No. 8
Federal 350 No. 1
Federal 350 No. 2
Federal 350 No. 3
State 400 No. 1
State 404 No. 1
State 414 No. 1
Federal 675 No. 3
State 7265 No. 2
State 7265 No. 3
Federal 4076 No. 14-23
~~State 920 No. 1~~

We are sorry if our lack of correspondence has created an inconvenience for you.

Very truly yours,


Peter B. Doty
Operations Coordinator

PBD:jp

P.S. Enclosed are the forms you requested on the Federal 675 No. 2.



2400 ANSCHUTZ TOWER • 555 SEVENTEENTH STREET • DENVER, COLORADO 80202 • 303-825-6100 • TWX 910-931-2620

July 3, 1979

Mr. Cleon B. Feight, Director
Division of Oil, Gas & Mining
State of Utah
1588 West, North Temple
Salt Lake City, Utah 84116

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Very truly yours,


Peter B. Doty
Operations Coordinator

PBD:jp



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771
November 14, 1979

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
C. RAY JUVELIN
THADIS W. BOX
CONSTANCE K. LUNDBERG
EDWARD T. BECK
E. STEELE McINTYRE

Anschutz Corp. *Septima*
2400 Anaconda Tower 555 17th Street
Denver Colo,
80202

RE: See Attached Sheet For
Well Information.

Gentlemen:

In reference to above mentioned well(s), considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. As of the above date we are suspending approval of these applications pending notification as to what you are doing ao each well. Since approval has already been obtained a new application will not be necessary if you decide to drill, but we will require a letter stating the date you intend to spudd-in.

Your prompt attention will be greatly appreciated.

Very truly yours,
DIVISION OF OIL, GAS, AND MINING
Debbie Beauregard
DEBBIE BEAUREGARD
CLERK-TYPIST

CC: U.S. Geological Survey

ATTACHMENT, WELLS.

- 1) Fereral 258 No. 7
- 2) Fereral 258 No. 8
- 3) Federal 350 No. 1
- 4) Federal 350 No. 2
- 5) Federal 350 No. 3
- 6) State 400 No. 1
- 7) State 402 No. 1
- 8) State 404 No. 1
- 9) State 414 No. 1
- 10) State 7265 No. 2
- 11) State 7265 No. 3
- 12) State 920 No. 1
- 13) Federal 675 No. 3
- 14) Federal 4076 No. 14-23
- 15) State 915 No. 1
- 16) Federal 258 No. 4

ATTACHMENT, WELLS.

1)	Federal	258	No.	7
2)	Federal	258	No.	8
3)	Federal	350	No.	1
4)	Federal	350	No.	2
5)	Federal	350	No.	3
6)	State	400	No.	1
7)	State	402	No.	1
8)	State	404	No.	1
9)	State	414	No.	1
10)	State	7265	No.	2
11)	State	7265	No.	3
12)	State	920	No.	1
13)	Federal	675	No.	3
14)	Federal	4076	No.	14-23
15)	State	915	No.	1
16)	Federal	258	No.	4