

UTAH DIVISION OF OIL, GAS AND MINING

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

DATE FILED 7-25-78

LAND: FEE & PATENTED _____ STATE LEASE NO. _____ PUBLIC LEASE NO. U-7674 INDIAN _____

DRILLING APPROVED: 7-21-78

SPUDED IN: _____

COMPLETED: _____ PUT TO PRODUCING: _____

INITIAL PRODUCTION: _____

GRAVITY A.P.I. _____

GOR: _____

PRODUCING ZONES: _____

TOTAL DEPTH: _____

WELL ELEVATION: _____

DATE ABANDONED: 5-15-79-Location abandoned; well never drilled

FIELD: Wildcat 3/16

UNIT: _____

COUNTY: Grand

WELL NO. Federal 7674-#1

API NO: 43-019-30454

LOCATION 2014' FT. FROM ~~XX~~ (S) LINE. 2240' FT. FROM ~~XX~~ (W) LINE. NE SW 11 $\frac{1}{4}$ - $\frac{1}{4}$ SEC. 30

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				17S	25E	30	ANSCHUTZ CORPORATION

17S 25E 30 ANSCHUTZ CORPORATION

5 5-79 - Location abandoned; well never drilled

FILE NOTATIONS

Entered in NID File
Location Map Pinned
Card Indexed
✓
✓

Checked by Chief
Approval Letter
Disapproval Letter

COMPLETION DATA:

Date Well Completed
..... WW..... TA.....
..... OS..... PA.....

Location Inspected
Bond released
State or Fee Land

LOGS FILED

Driller's Log.....
Electric Logs (No.)
E..... I..... Dual I Lat..... GR-N..... Micro.....
BHC Sonic GR..... Lat..... MI-L..... Sonic.....
CHLog..... (CLog..... Others.....

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
1110 Denver Club Building Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface
2014' FSL, 2240' FWL Section 30, T17S, R25E
At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
11.5 miles from Harley Dome

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
2014'

16. NO. OF ACRES IN LEASE
840

17. NO. OF ACRES ASSIGNED TO THIS WELL
640

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

19. PROPOSED DEPTH
2445'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5018'

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

5. LEASE DESIGNATION AND SERIAL NO.
U-7674
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME
Federal 7674
9. WELL NO.
1
10. FIELD AND POOL, OR WILDCAT
Wildcat
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 30, T17S, R25E
12. COUNTY OR PARISH
Grand
13. STATE
Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24#	200	250 sacks
7-7/8" 1	4-1/2"	9.5#	2445'	250 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 Wayne C. Reiss TITLE _____ DATE 7-12-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

The Anschutz Corporation
13 Point Surface Use Plan
for
Well Location
Federal 7674-1
Section 30, T17S, R25E
Grand County, Utah

1. Existing Roads

See attached topographic map "A".

To reach The Anschutz Corporation well site located in the NESW Section 30, T17S, R25E, Grand County, Utah, leave I-70 at Harley Dome and proceed in a northeast direction to the Westwater road where you will turn to the northwest for approximately 1.7 miles. Turn northeast here and follow the road approximately 8 miles. The location will be on the left side of the road.

No additional upgrading will be necessary for existing roads.

2. Planned Access Roads

See topographic map "A".

No new access road will be needed.

3. Location of Existing Wells

There are no wells within a two mile radius of the proposed location.

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

All petroleum production facilities are to be contained within the proposed location site. There are no other Anschutz Corporation flow, gathering, injection or disposal lines within a one mile radius of the location.

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

5. Location and Type of Water Supply

Water used to drill this well will be hauled from Cisco, Utah. No new roads will have to be constructed for access.

6. Source of Construction Material

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 material from other sources are anticipated at this time.

7

Method for Handling Waste Disposal

Drill cuttings will be buried in the reserve pits when covered. Drilling fluids will also be handled in the reserve pits. Any hydrocarbons produced while drill or stem production testing will be collected in a test tank set near the pipe baskets or near the well head. A portable chemical toilet will be supplied for human waste. Garbage, wastes and non-flammable waste salts and other chemicals produced or used during drilling or testing will be handled in the reserve pits, or kept in the trash or burn pits. Chicken wire will be used to cover the trash pit if blowing is a problem. The reserve pits, in addition to the trash or burn pits, will be fenced on three sides during drilling operations, and iron or other other posts and wire fencing will be available on location immediately upon cessation of drilling and the fourth side of the reserve pits will be fenced prior to full removal of the rig from the location. Any other dangerous or harmful pits or sewage areas will also be fenced or covered at the time the rig moves off location.

8. Ancillary Facilities

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

9. Wellsite Layout

See attached location layout plat. The BLM Management District Manager or other appropriate agencies will 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.

10. Plans for Restoration of Surface

As there is some top soil in the area, all top soil will be stripped and stockpiled prior to drill activities on the well site only (see #9) When all production activities have been completed, the location site access road and flowline route will be reshaped as nearly as possible to the original contour prior to construction and the top soil on the location only spread over the disturbed area. Any drainage re-routed during the construction and production activities shall be restored to the original flow line.

All additional wastes being accumulated during production activities and contained in the reserve pit and trash pit shall be buried with a minimum of 4' of cover. The location site, access road and flowline routes will be reseeded with a seed mixture recommended by the BLM District Manager when the moisture content of the soil is adequate for germination.

Restoration activities shall begin within 90 days after completion of the well. Once completion activities have begun, they shall be completed within 30 days. The lessee further covenants and agrees that all of said cleanup and restoration activities shall be done with the above mentioned items No. 7 and 10.

11. Other Information

The topography of the general area is flat to hilly.

The majority of the numerous washes and streams in the area are of a non-perennial nature flowing during the early spring run-off and extremely heavy rain storms of long duration which are extremely rare. The normal annual rainfall is only 8".

The soils in this semi-arid area consist of light brownish-gray clays to sandy soils with poorly graded gravel. Outcrops of sandstone ledges, conglomerate deposits and shale are common in this area. The top soils in the area range from sandy clay to clayey soils.

Due to the low precipitation average climate conditions and the marginal types of soils, the vegetation that is found in the area is common of 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 squirrely and other types of rodents.

The area is used by man primarily for grazing sheep and cattle. The birds of the area are raptors, finches, ground sparrows, magpies crows and jays,

The immediate area surrounding the location site is vegetated with predominantly juniper and pinion pine trees with sparse amounts of sagebrush and grasses.

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 site.

12. Lessee's or Operator's Representative

Peter MacDowell
Resource Marketing Services, Inc.
821 17th Street
Denver, Colorado

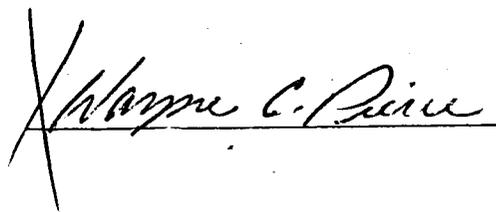
Mr. Wayne Pierce
The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado

(303)243-9332 Grand Junction
(303)892-9185 Business
(303)773-3020 Home

(303)573-5665 Business
(303)794-3860 Home

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 the plan and terms and conditions under which it is approved.

A handwritten signature in cursive script, reading "Wayne C. Peirce", is written over a horizontal line. A large, stylized 'X' is drawn over the signature.

The Anschutz Corporation

Ten Point Resource Protection Plan

Well: Federal 7674-1
Location: Section 30, T17S, R25E
County and State: Grand County, Utah
Federal Lease Number: U-7674

1. The geological name for the surface formation is the Mancos formation of the Middle Eocene Age.
2. The estimated tops of important geological markers with depths calculated from an estimated RKB elevation of 5018' are as follows:

Base Dakota Silt	1650'
Dakota Sand	1700'
Cedar Mountain	1790'
Buckhorn	1840'
Morrison	1890'
Summerville	2420'
Total Depth	2445'

3. Of the formations listed above, it is anticipated that the Dakota Sand, Cedar Mountain and Morrison may be gas bearing in the well.
4. The proposed casing program for completion of this well will consist of 4-1/2" 9.5# new casing. The 8-5/8" casing will be new.
5. The operators minimum specifications for pressure control equipment are as follows:

A 10" Double Ram Hydraulic Unit with a closing unit will be utilized. Additionally, while air drilling a Series 900 Rotating Head will be used. Pressure tests of BOP's to 1000# will be made after installation and operation and will be checked daily.

6. It is proposed that the hole will be drilled to 2445' using air and mist as necessary in order to clean the hole.
7. Auxiliary equipment to be used will be a Kelly Cock and a Float at the drill bit.
8. No coring or drill stem testing has been scheduled for this well. The logging program will consist of a dual induction laterolog, borehole compensated sonic log and a compensated neutron formation density log.
9. It is not anticipated that any abnormal pressures or temperatures will be encountered nor that any other abnormal hazards such as H₂S gas will be encountered in this area.

10. It is anticipated that this well will be commenced approximately August 1, 1978 and that the operations will last two weeks.

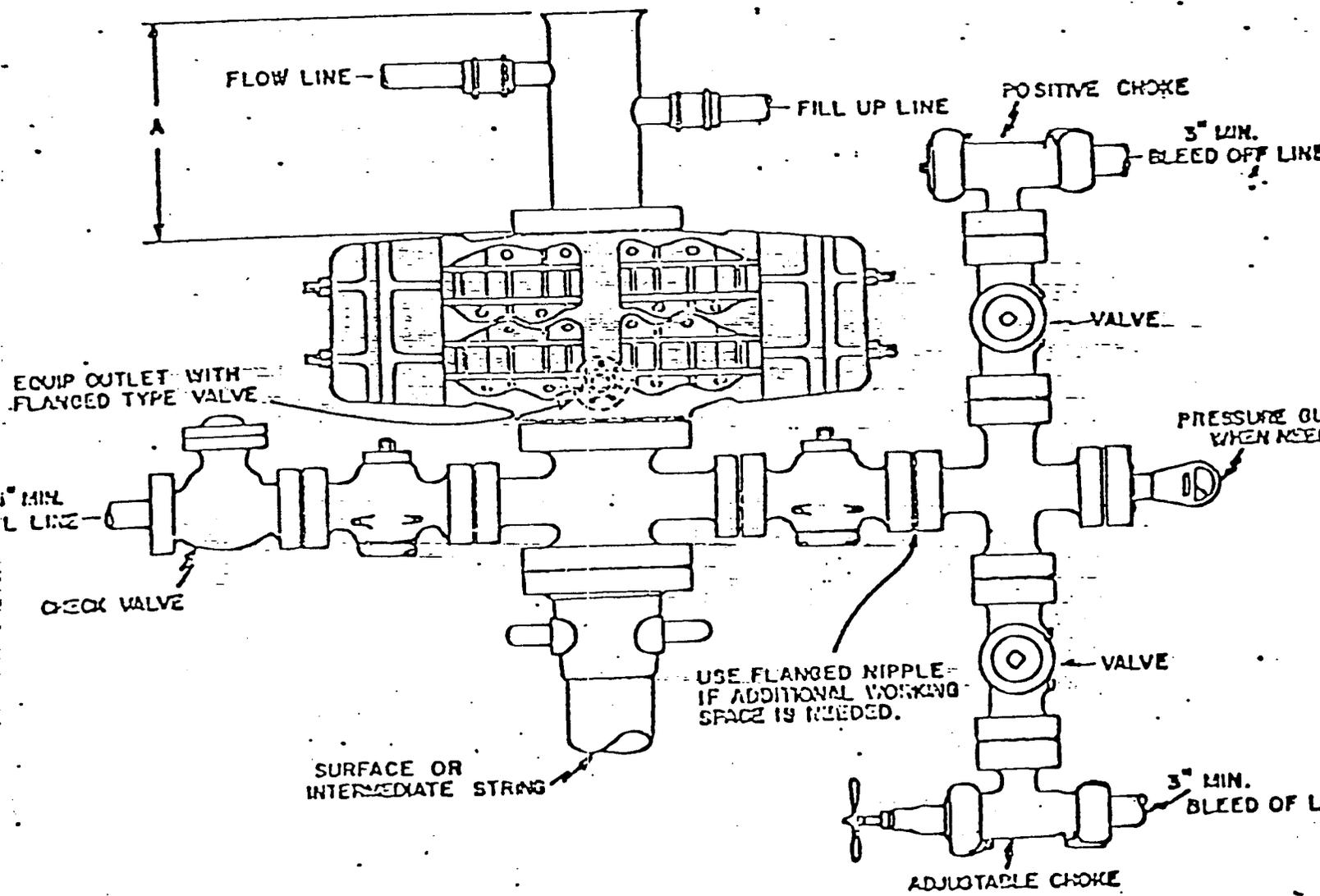
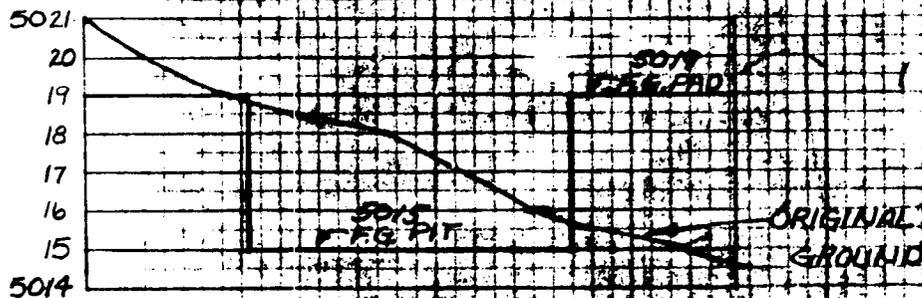
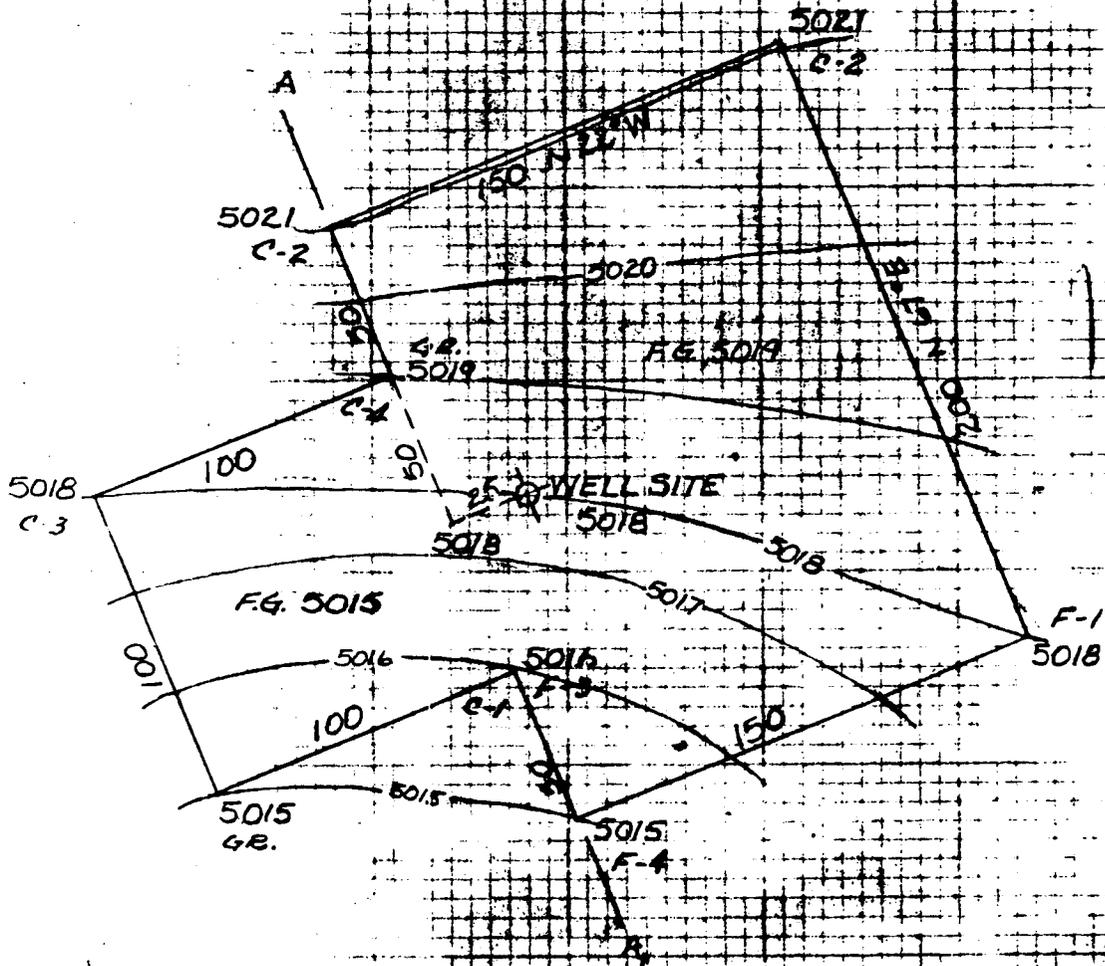


EXHIBIT - A

TOPOGRAPHIC MAP SHOWING OUTSIDE LISTED FINISH GRADE
 DRILLING PAD & RESERVE PIT
 ANSCHUTZ FED. 7674 N.F. 1
 2014 F.S.L. & 2240 F.W.L. SEC 30, T17S, R26E
 GRAND COUNTY, UTAH

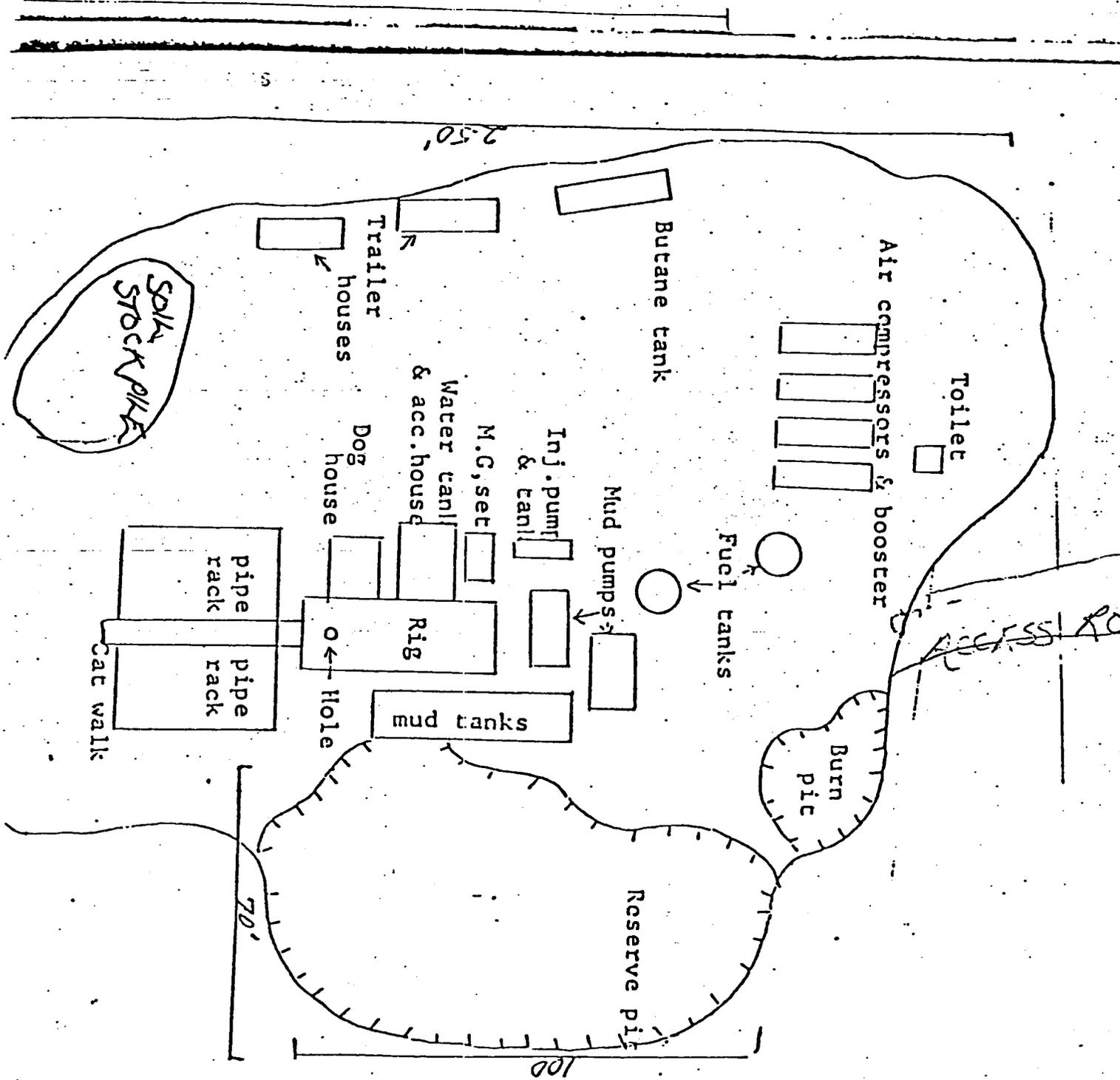


CROSS SECTION THROUGH A-A
 HOR. SCALE 1" = 60'
 VERT. SCALE 1" = 5'
 SURVEYED BY COMPASS AND LEVEL

James E. Hoag
 UTAH LAND SURVEYOR
 LICENSE NO. S.N. 1963

Federal 7674-1

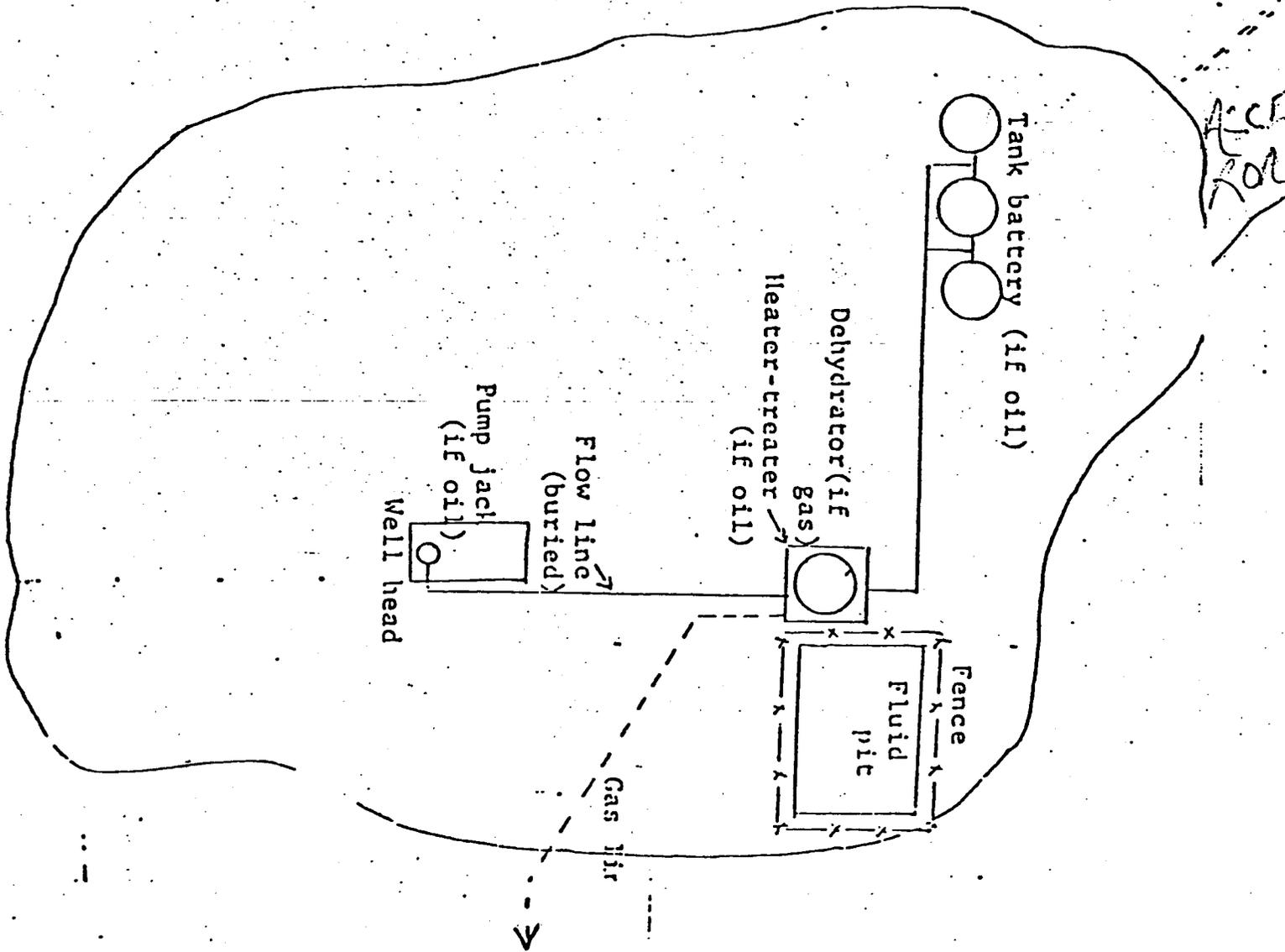
Rig Layout



Production Facility

Federal 7674-1

N



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
 1110 Denver Club Building Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface
 2014' FSL, 2240' FWL Section 30, T17S, R25E
 At proposed prod. zone
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 11.5 miles from Harley Dome

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24. SIGNED Wayne C. Reine TITLE _____ DATE 7-12-78

(This space for Federal or State office use)
 PERMIT NO. 43-017-30151 APPROVAL DATE _____

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

The Arschutz Corporation
13 Point Surface Use Plan
for
Well Location
Federal 7674-1
Section 30, T17S, R25E
Grand County, Utah

1. Existing Roads

See attached topographic map "A".

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Peter MacDowell
Resource Marketing Services, Inc.
821 17th Street
Denver, Colorado

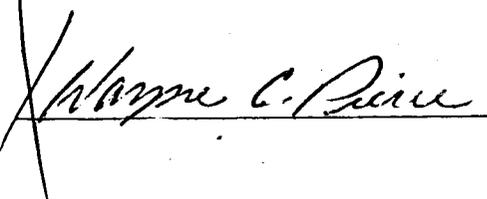
(303)243-9332 Grand Junction
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Mr. Wayne Pierce
The Anschutz Corporation
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Clarence C. Peice

The Anschutz Corporation

Ten Point Resource Protection Plan

Well: Federal 7674-1
Location: Section 30, T17S, R25E
County and State: Grand County, Utah
Federal Lease Number: U-7674

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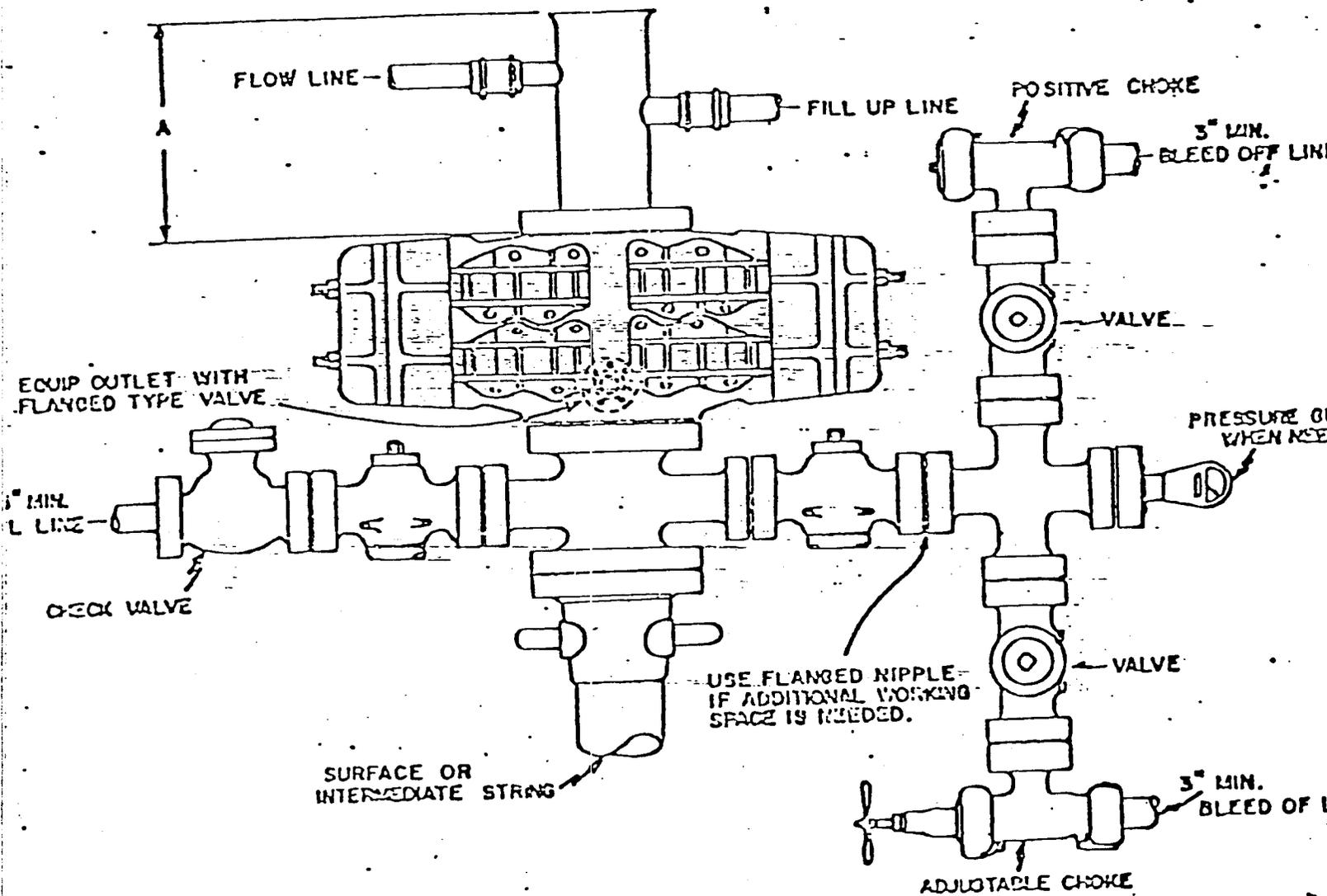
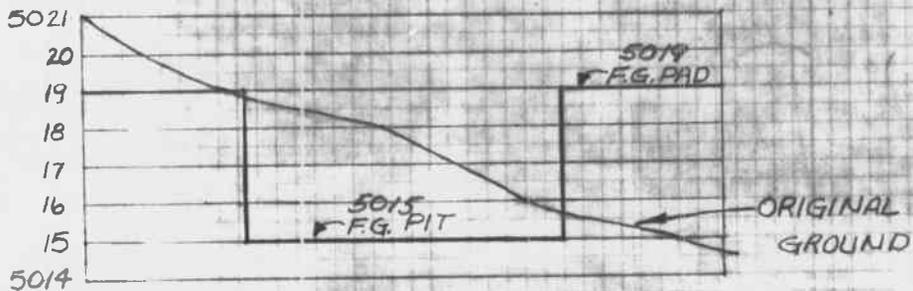
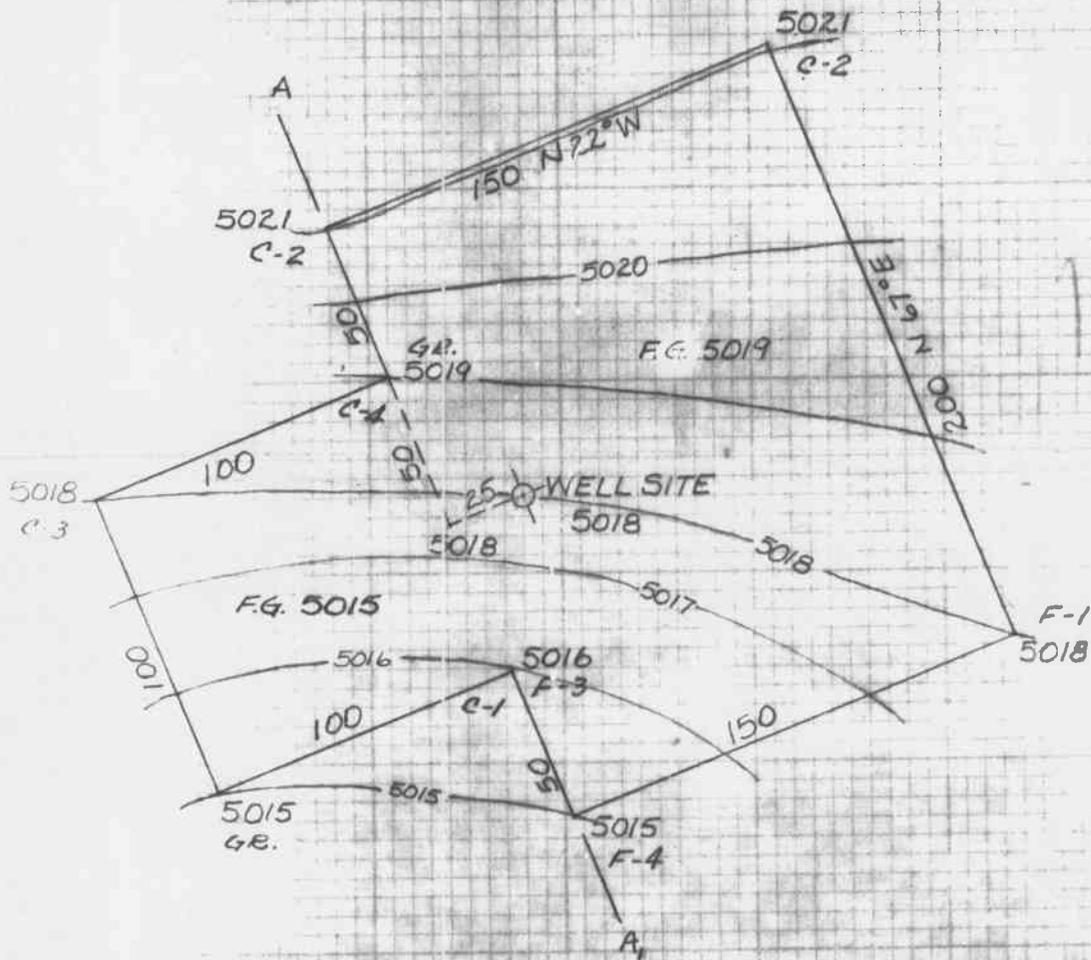


EXHIBIT - A

TOPOGRAPHIC MAP SHOWING CUTS & FILLS TO FINISH GRADE
 DRILLING PAD & RESERVE PIT
 ANSCHUTZ FED. 7674 N^o 1
 2014 F.S.L. & 2240 F.W.L. SEC. 30, T17S, R26E
 GRAND COUNTY, UTAH



CROSS SECTION THRU A-A,
 HOR. SCALE: 1" = 60'
 VERT. SCALE: 1" = 5'

SURVEYED BY COMPASS & HAND LEVEL

John C. Beagle
 UTAH REGISTERED S. N. 1963

WELL LOCATION PLAT

R25E

2642 (REC.)

N 69° 54' E

2642 (REC.)

Z

BEARING FROM SOUTH LINE SE 1/4 SEC. 30
(N 89° 58' E)

2640 (REC.)

NORTH

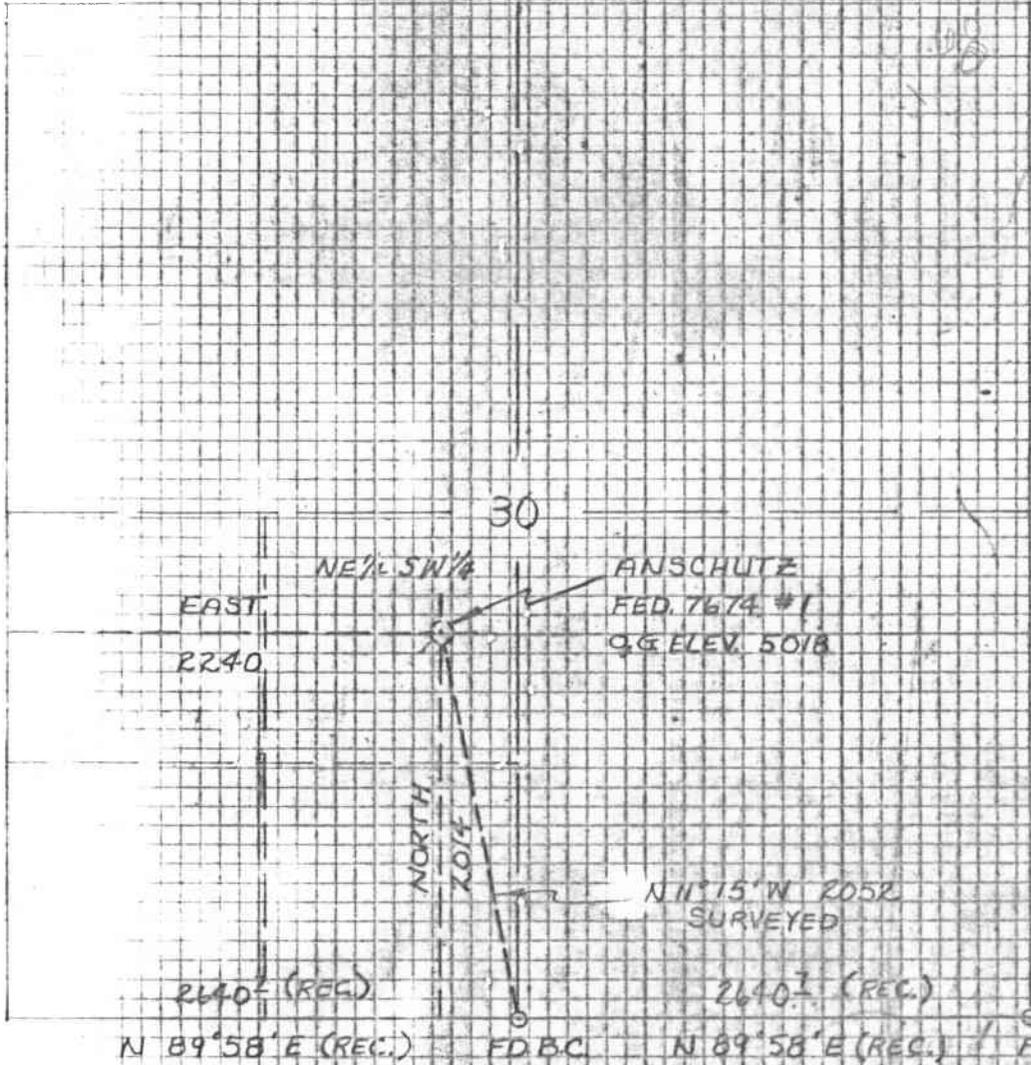
2640 (REC.)

2640 (REC.)

N 0° 01' E

2640 (REC.)

T
17
S



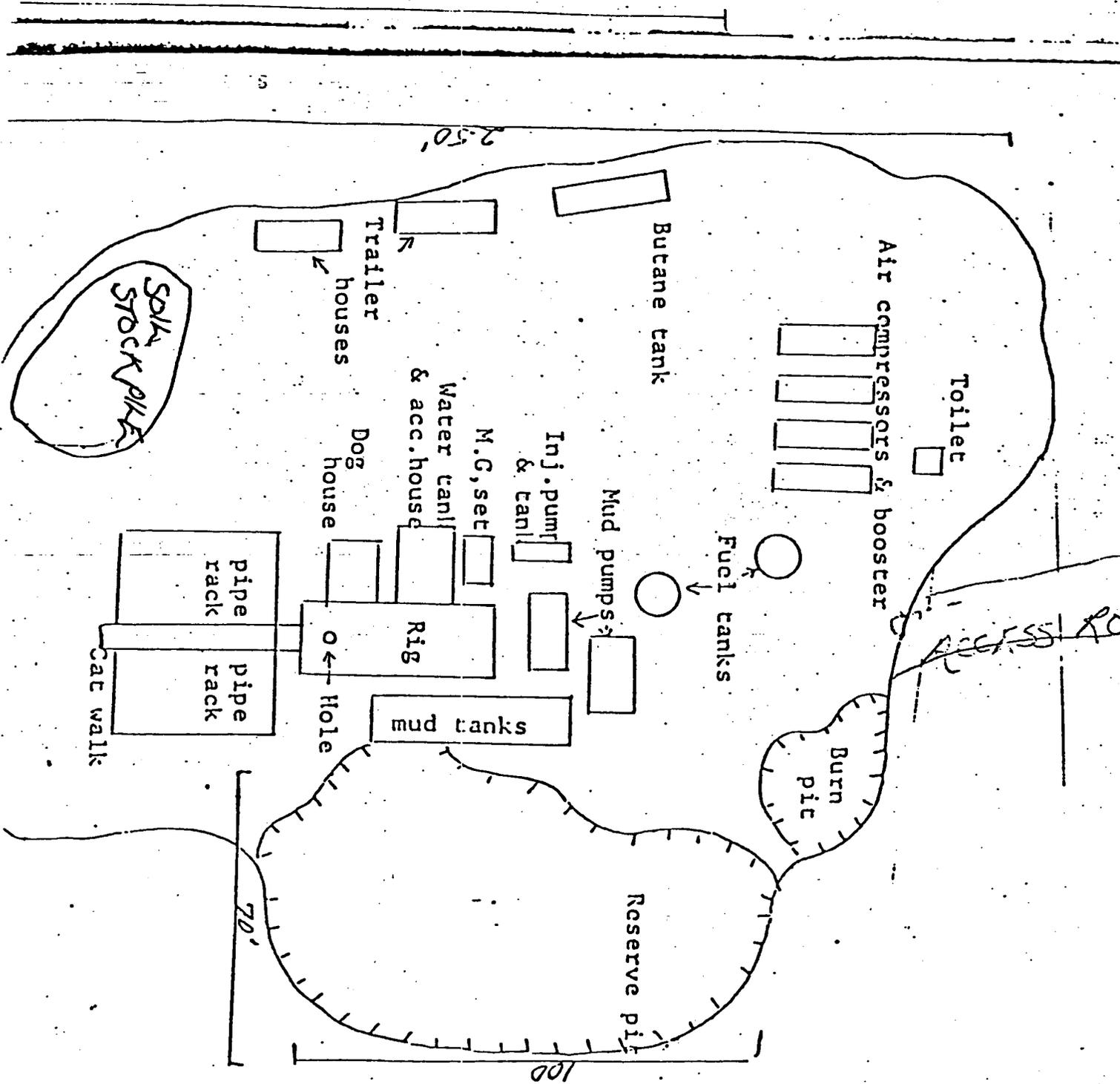
ELEVATION BY VERTICAL ANGLES
FROM U.S.G.S. TOPO. QUAD "BAR-X WASH, UTAH-COLO." 1970
(S 1/4 COR., SEC. 30 = 4995)

ANSCHUTZ FED. 7674 #1 WELL LOC.
IN NE 1/4 SW 1/4, SEC. 30, T17S, R25E, S.L.B.M.
2014 F.S.L. & 2240 F.W.L. SEC. 30
GRAND COUNTY, UTAH

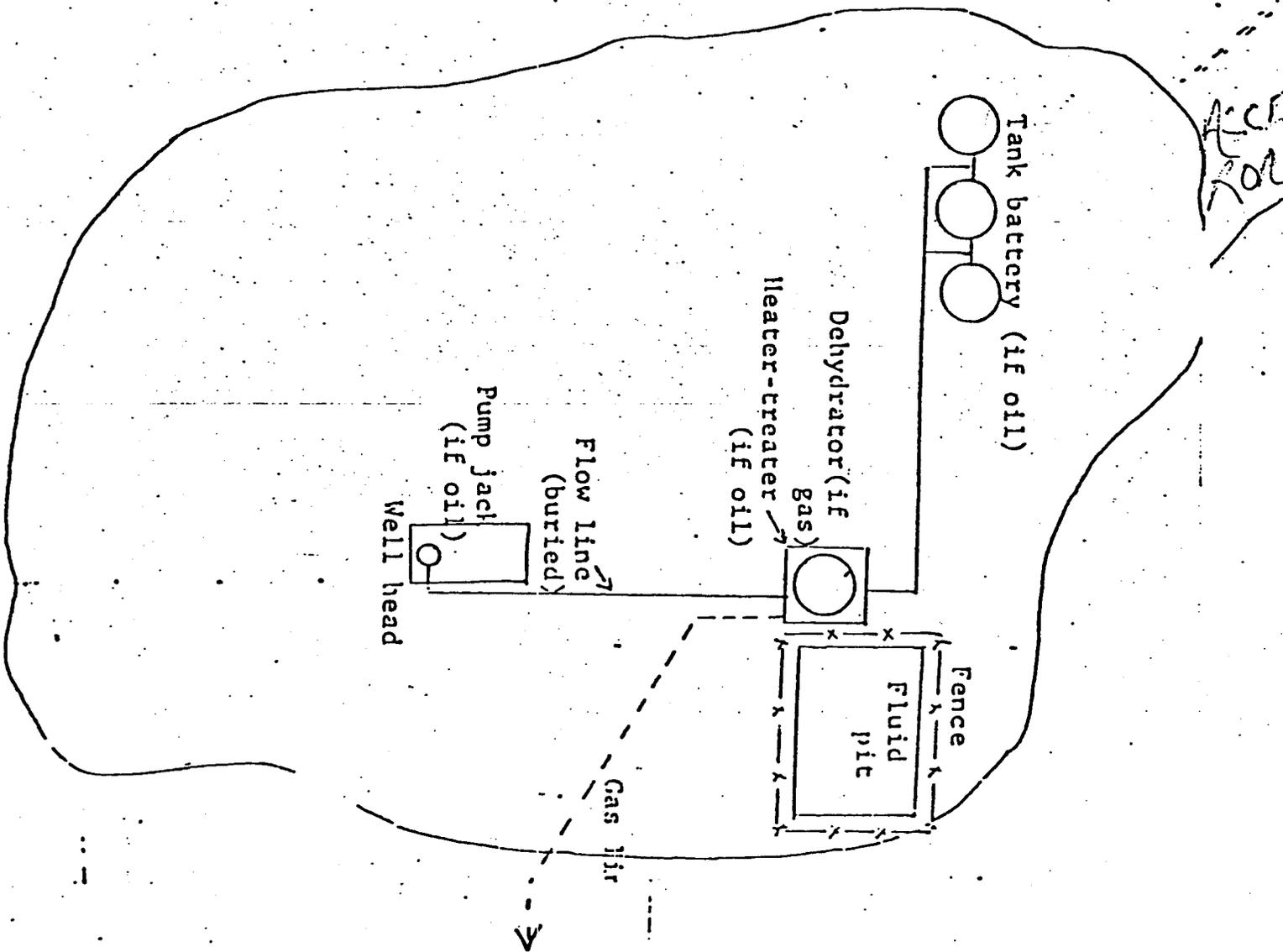
FOR: ANSCHUTZ CORP.
SCALE: 1" = 1000' JUNE 20, 1978
TRANSIT & DISTANCE METER SURVEY



Rig Layout



N



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

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The Anschutz Corporation

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14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
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15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 2014'

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19. PROPOSED DEPTH
2445'

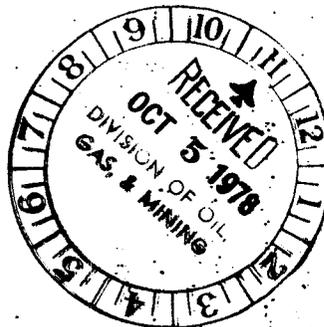
20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5018'

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

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11"	8-5/8"	24#	200	250 sacks
7-7/8" 1	4-1/2"	9.5#	2445'	250 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 Wayne C. Price TITLE _____ DATE 7-12-78

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY Chas. Price TITLE ACTING DISTRICT ENGINEER DATE OCT 4 1978

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

State L & G

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

WELL LOCATION PLAT

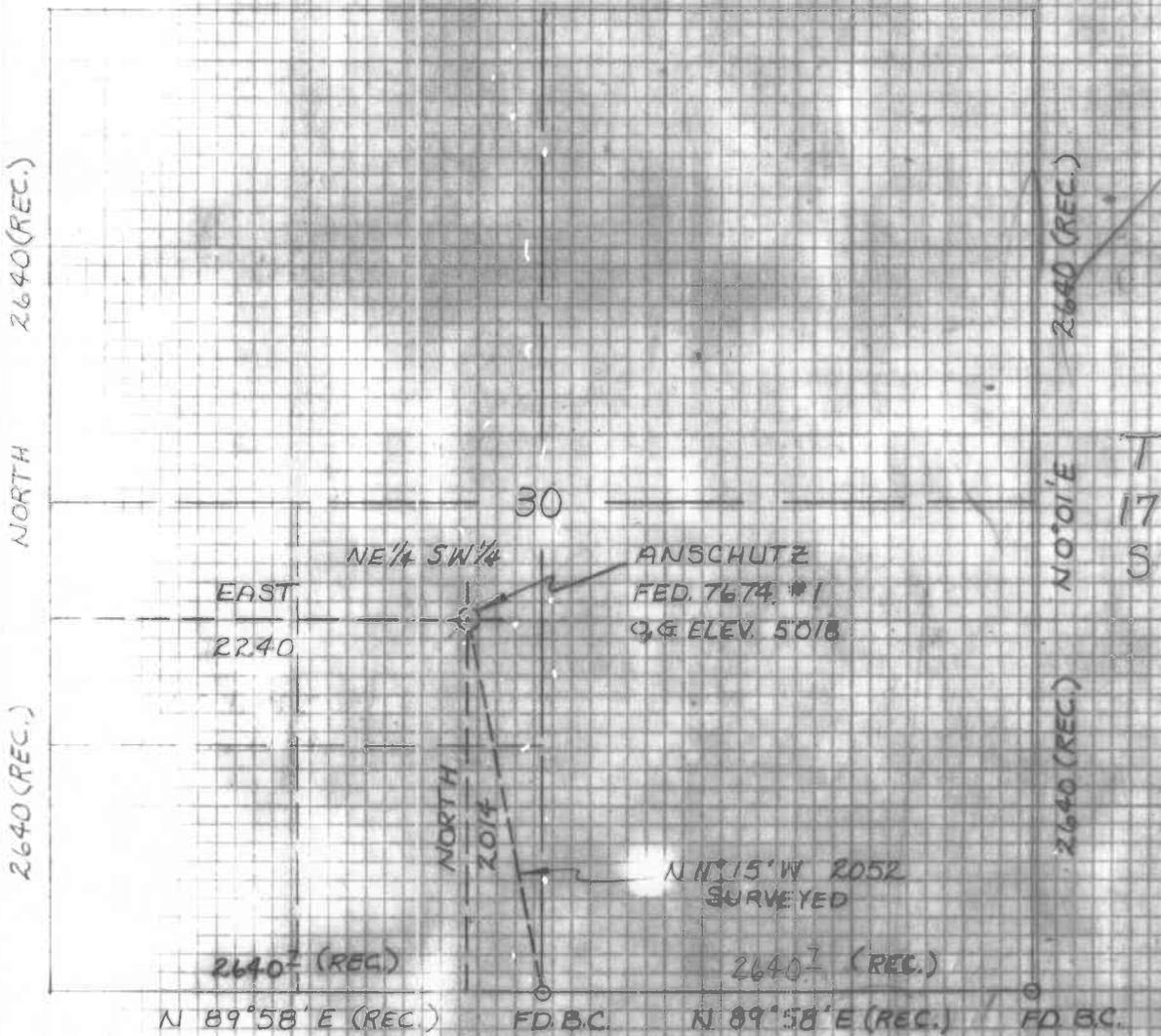
R25E

2642 (REC.)

N 89° 54' E

2642 (REC.)

Z
BEARING FROM SOUTH LINE SE 1/4 SEC. 30
(N 89° 58' E)



ELEVATION BY VERTICAL ANGLES
FROM U.S.G.S. TOPO. QUAD. "BAR-X WASH, UTAH-COLO" 1970
(S 1/4 COR., SEC. 30 = 4995)

ANSCHUTZ FED 7674 #1 WELL LOC.
IN NE 1/4 SW 1/4 SEC 30, T17S, R25E, S.L.B.M.
2014 F.S. & 2240 F.W.L. SEC. 30
GRAND COUNTY, UTAH

FOR: ANSCHUTZ CORP.
SCALE: 1" = 1000' JUNE 20, 1978
TRANSIT & DISTANCE METER SURVEY



FROM: DISTRICT GEOLOGIST E, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-7674OPERATOR: The Proschutz Corporation WELL NO. 1LOCATION: NE 1/4 SW 1/4 sec. 30, T. 17S, R. 26E,
Grand County, Utah

1. Operator predicted stratigraphy and predicted hydrocarbon zones are adequate? yes
If not, USGS predictions are:

2. Fresh water aquifers probable below surface casing? yes. Useable water may occur in the sandstone members of the Mancos.
3. Other probable leasable minerals? yes. Within lands designated prospectively valuable for coal. Coal may occur in the Dakota Sandstone.
4. Are hazardous fluids or gases likely? unknown None anticipated by operator
5. Are abnormal conditions of pressure or temperature likely? unknown
None anticipated by operator
6. Will any strata penetrated need special mud, casing, or cementing beyond that proposed in the APD? unknown
7. Is additional logging or sampling needed? no. Run logs through Dakota to identify coal.
8. References - remarks: USGS Files, Salt Lake City, Utah
- Is location within 2 miles of a KGS? yes. South of Bar X KGS

Signature: Ernest C. Clark Date: 7/18/70

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

Usual Environmental Analysis

Lease No. U-7674

Operator Anschutz Corporation

Well No. 7674-1

Location 2014'FSL,2240 FWL

Sec. 30

T. 17 S. R. 26 E.

County Grand

State Utah

Field Wildcat

Status: Surface Ownership Public

Minerals Federal

Joint Field Inspection Date August 1, 1978

Participants and Organizations:

George Diwachak

USGS - Salt Lake City, Utah

Rocky Curnett

BLM - Moab

Kathy Patterson

Anschutz Corp.

Loren Wells

Anschutz Corp.

Dick Stites

Contracter

Related Environmental Analyses and References:

- (1) Unit Resource Analysis - Book untain Planning Unit (06-01)
BLM - Moab, Utah
- (2)

Analysis Prepared by:

George J. Diwachak
~~John T. Evans~~
Environmental Scientist
Salt Lake City, Utah

Date August 2, 1978

Proposed Action:

On July 17, 1978, The Anschutz Corporation filed an Application for Permit to Drill the No. 7674-1 exploratory well, a 2,445-foot gas test of the Summerville Formation; located at an elevation of 5,018 ft in the Bar Creek Unit on Federal mineral lands and public surface; Lease No. U-7674. There was no objection raised to the wellsite nor to the access road.

*2014' FSL + 2240' FWL Sec 30-175-26 E
Grand Co., Utah*

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 Preventer 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 of 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 125 ft wide x 250 ft and a reserve pit 70 ft x 100 ft. No new access roads will be constructed. The operator proposes to construct production facilities on a disturbed area of the proposed drill pad. If production is established, plans for a gas flow line have been submitted to the appropriate agencies for approval. The anticipated starting date is when approved and duration of drilling activities would be about 14 days.

Location and Natural Setting:

The proposed drillsite is approximately 11.5 mi north of Harley Dome, the nearest town. A good road runs to the location. This well is a Wildcat in the Bar Creek Unit.

Topography:

The topography of the lease area is flat desert.

Geology:

The surface geology is Mancos Formation. The soil is sandy loam. No geologic hazards are known near the drillsite. Seismic risk for the area is minor. Anticipated geologic tops are filed with the 10-Point Subsurface 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 hydrocarbon zones through the well bore on these minerals. In the event the well is abandoned, cement plugs will be placed with drilling fluid in the hole to assure protection of any mineral resources.

The potential for loss of circulation would exist and is possible in the sandstone units. 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 into 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.

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 of disturbed areas when abandoned to aid in rehabilitation of the surface. Rehabilitation is necessary to prevent erosion and encroachment of undesired species on the disturbed areas. The operator proposed to rehabilitate the location and access roads per the recommendations of the Bureau of Land Management.

Approximately 1.5 acres of land would be stripped of vegetation. This would increase the erosional potential. Proper construction practice, construction of water bars, reseeded of slope-cut area would minimize this impact.

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.

Precipitation:

Annual rainfall should range from about 8 to 11 inches at the proposed location. The majority of the numerous drainages in the surrounding area are of a nonperennial nature flowing only during early spring runoff and during extremely heavy rain storms. This type of storm is rather uncommon as the normal annual precipitation is around 8 inches.

Winds are medium and gusty, occurring predominately from west to east.

Air mass inversions are rare.

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:

Numerous ephemeral drainages exist in such desert locations and flow mainly in response to spring runoff and heavy rains. Water movement from the lease area would be towards San Arroyo Wash, the major drainage of the area which flows in a southerly direction to its confluence with the Colorado River.

Some additional erosion would be expected in the area since surface vegetation would be removed. If erosion became serious, drainage systems such as water bars and dikes would be installed to minimized the problem. The proposed project should have minor impact on the surface water systems.

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 communcation, contamination and commingling 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 basis information as all shows of fresh water would be reported. Water production with the gas would require disposal of produced water per the requirement of NLT-2B.

The depths of fresh water formations are listed in the 10-Point Sub-surface 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.

Vegetation:

The vegetation of the lease area consists of sagebrush, cacti and some grasses, species characteristic of the desert region.

Proposed action would remove about 1.5 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.

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 predominatly of coyotes, rabbits, 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 sparrows, magpies, crows and jays.

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 an historic artifact, an archeological 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 and other facilities of this nature in the general area. Minor distractions from aesthetics would occur over the lifetime of the project and are judged to be minor. All permanent facilities placed on the location should be painted a light sand 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 predrilling 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 of 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 possibly national economies 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 U.S. Geological Survey'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.

Land Use:

The land is used primarily for wildlife and stock grazing. 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 EAR is on file in the agency's State offices and is incorporated herein by reference.

Waste Disposal:

The mud and reserve pits would contain all fluids used during the 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.

Alternatives 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 the U.S. Geological Survey 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 access road or any special, restrictive stipulations or modifications to the proposed program 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.

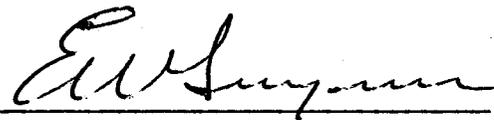
Adverse Environmental Effects Which Cannot Be Avoided:

Surface disturbance and removal of vegetation from approximately two acres of land surface from 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 the Colorado River. The potential for pollution to San Arroyo Wash would exist through leaks and spills.

Determination:

This requested action does not constitute a Federal action significantly affecting the environment in the sense of NEPA, sec. 102(2)(c).



District Engineer
U. S. Geological Survey
Conservation Division
Oil and Gas Operations
Salt Lake City District



U-7674
Anschutz Corp.
#7674-1

8-1-78

N

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

** FILE NOTATIONS **

Date: July 18 -
Operator: Angschutz Corp.
Well No: Fed. 7674-1
Location: Sec. 30 T. 17S R. 25E County: Grand

File Prepared: Entered on N.I.D.:
Card Indexed: Completion Sheet:

API NUMBER: 13-019-30454

CHECKED BY:

Administrative Assistant JW
Remarks: No other wells - No. 30
Petroleum Engineer AKP
Remarks:
Director J
Remarks:

~~OK
2
NEXENT
(13/0)
Cancelled~~

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 Unit

Other:

Letter Written/Approved

July 21, 1978

The Anschutz Corporation
1110 Denver Club Building
Denver, Colorado

Re: Well No. Federal 7674-#1
Sec. 30, T. 17 S, R. 25 E,
Grand County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

PATRICK L. DRISCOLL - Chief Petroleum Engineer
HOME: 582-7247
OFFICE: 533-5771

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-019-30454.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

CLEON B. FEIGHT
Director

cc: U.S. Geological Survey



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.