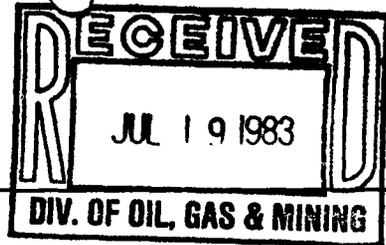




2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-825-6100
TWX 910-931-2620



July 19, 1983

State of Utah
Natural Resources and Energy
4241 State Office Building
Salt Lake City, UT 84114

Re: Well No. Moore Federal 14-22

Gentlemen:

Enclosed please find a complete duplicate of the application filed with the BLM Oil & Gas for the referenced well.

An application has been filed with the State Engineer to temporarily divert water from an existing water right owned by Anschutz and a copy of the approval will be filed with your office upon receipt.

If you have any questions or require additional data please contact me.

Sincerely,

William J. Miller
Operations Coordinator

WJM:me
Enclosure

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
 Suite 2400, 555-17th St., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: SE 1/4 SW 1/4 - 1931 FWL & 666.7 FSL
 At proposed prod. zone: Same

5. LEASE DESIGNATION AND SERIAL NO.
 U-47812

6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 --

7. UNIT AGREEMENT NAME
 --

8. FARM OR LEASE NAME
 Moore Ranching

9. WELL NO.
 14-22

10. FIELD AND POOL, OR WILDCAT
 --

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 Sec. 22, T3N, R7E, SLB&M

12. COUNTY OR PARISH
 Summit

13. STATE
 Utah

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 Approx. 24 miles SW of Evanston, WY

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 666.7

16. NO. OF ACRES IN LEASE
 519.32

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
 None

19. PROPOSED DEPTH
 15,200

20. ROTARY OR CABLE TOOLS
 Rotary

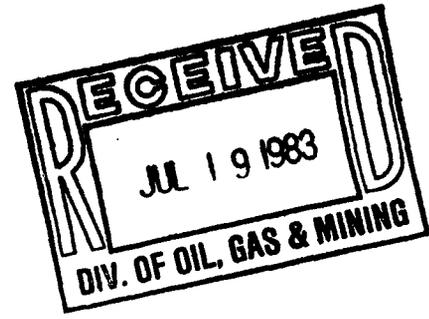
21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7998 GR

22. APPROX. DATE WORK WILL START*
 --

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See attached resource protection plan, multi-point surface use and operations plan, surveyor's plat, etc.



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 William J. Miller TITLE Operations Coordinator DATE July 15, 1983
 William J. Miller

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**
 DATE: 7-20-83
 BY: [Signature]

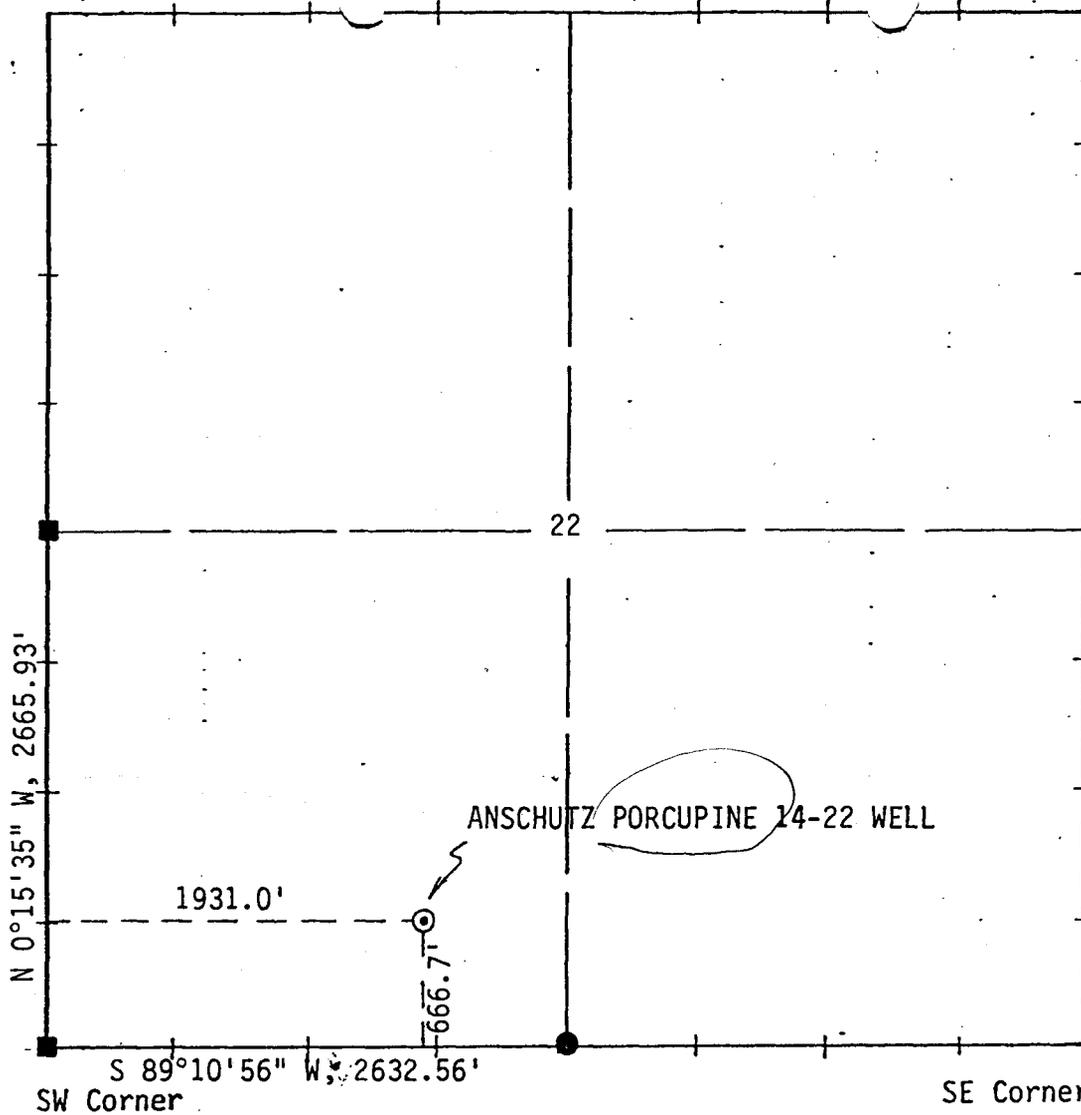
NW Corner

3 N

7 E

NE Corner

EXHIBIT "B"

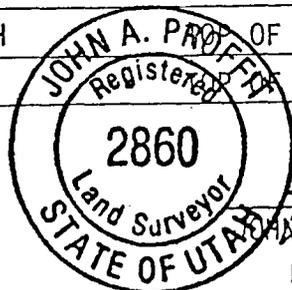


SCALE: 1" = 1000'

- Found Brass Cap
- Found Stone
- ⊙ Set Alum. Cap
- ⊗ Found Stone - Set Alum. Cap
- Hub and Tack
- △ Proportioned Corner

I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Bill Cutler of Denver, Colorado for The Anschutz Corporation I made a survey on the 9th day of June, 1983 for Location and Elevation of the Anschutz Porcupine 14-22 Well as shown on the above map, the wellsite is in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 22, Township 3N, Range 7E of the Salt Lake Base & Meridian Summit County, State of Utah, Elevation is 7998 Feet Top of Hub Datum Mean Sea Level Based on 3 Dimensional Control Network tied to U.S.G.S. & U.S.C.&G.S. Bench Marks

Reference point	300' NORTH	TOP OF PIN	ELEVATION 8012.2'
Reference point	300' WEST	TOP OF PIN	ELEVATION 8005.9'
Reference point	300' SOUTH	TOP OF PIN	ELEVATION 7982.8'
Reference point	300' EAST	TOP OF PIN	ELEVATION 7991.4'



John A. Proffit 6/14/83
 JOHN A. PROFFIT UTAH R.L.S. NO. 2860
 UTAH ENGINEERING & SURVEYING, INC.
 808 MAIN STREET, EVANSTON, WYOMING

Book 280
 DATE: June 13, 1983
 JOB NO.: 83-19-5

Anshutz Corp.
Well No. Moore Federal 14-22
Section 22, T. 3 N., R. 7 E.
Summit County, Utah

Lease No. U-47812

SUPPLEMENTAL STIPULATIONS:

1. If a successful water well is drilled on location, the private landowner should be given the opportunity to develop it after drilling and production uses are terminated.
2. A waste disposal permit should be obtained from Summit Co. (if required).
3. The top 12 inches of surface material will be considered topsoil and should be stockpiled separate from other subsoils. All gravel for road and pad stabilization should be removed prior to site restoration and these areas should be ripped to a depth of about three feet to loosen compacted soil. The seed mixture (unless otherwise specified by private landowners) should be:

Thick spike critana	4 lbs/acre
Intermediate wheatgrass	4 lbs/acre
Red clover	4 lbs/acre
Smooth brome	4 lbs/acre
Western wheat	4 lbs/acre
Service berry	1 lbs/acr or 100 container plants
Small burnett	1 lbs/acre
4. Location should remain fenced one or two years after rehabilitation to enhance revegetation.
5. Adequate and sufficient electric/radioactive logs will be run to locate and identify anticipated coal beds in the Frontier formation. Casing and cementing programs will be adjusted to eliminate any potential influence of the well bore or productive hydrocarbon zones on the coal resource. Surface casing program may require adjustment for protection of fresh water aquifers.

ADDITIONAL STIPULATIONS FOR PRODUCTION FACILITIES

Your Application for Permit to Drill also included a submittal for production facilities. These production facilities are approved for the lessee and his designated operator under Section 1 of the Oil and Gas Lease with the following conditions:

- (1) The oil and gas measurement facilities must be installed on the well location. The oil and gas meters will be calibrated in place prior to any deliveries. Tests for meter accuracy are to be conducted monthly for the first three months on new meter installations and at least quarterly thereafter. Please provide this office with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports are to be submitted to the Salt Lake City District Oil and Gas Supervisor. Royalty payments will be made on all production volume as determined by the meter measurements or the tank measurements. All measurement facilities must conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.
- (2) Gas meter runs for each well will be located within 500 feet of the wellhead. The gas flowline will be buried from the wellhead to the meter and 500 feet downstream of the meter run or any production facilities. Meter runs must be housed and/or fenced.
- (3) All disturbed areas not required for operations will be rehabilitated.
- (4) All produced liquids must be contained including the dehydrator vent/condensate line effluent. All production pits must be fenced.
- (5) The well activity, the well status and the date the well is placed on production must be reported on Lessee's Monthly Report of Operations, Form 9-329.
- (6) All off-lease storage, off-lease measurement, or commingling on lease or off-lease must have written approval.
- (7) All product lines entering and leaving hydrocarbon storage tanks must be locked/sealed.
- (8) You are reminded of the requirements for handling, storing, or disposing of water produced from oil and gas wells under NTL-2B.
- (9) All materials, trash, junk, debris, etc. not required for production must be removed from the well site and production facility site at the completion of these operations.
- (10) A copy of the Gas Sales Contract will be provided to this office and the Royalty Accounting Department as directed.
- (11) Construction and maintenance for surface use approved under this plan should be in accordance with the surface use standards as set forth in the BLM/GS Oil and Gas Brochure entitled, "Surface Operating Standards for Oil and Gas Exploration and Development." This includes, but is not limited to, such items as road construction and maintenance, handling of top soil and rehabilitation.
- (12) "Sundry Notice and Reports on Wells" (form 9-331) will be filed for all changes of plans and other operations in accordance with 30 CFR 221.58. Emergency approval may be obtained verbally, but such approval does not waive the written report requirement. Any additional construction, reconstruction, or alternations of facilities, including roads, gathering lines, batteries, measurement facilities, etc., will require the filing of a suitable plan and prior approval by the survey.

**TEN POINT RESOURCE PROTECTION PLAN
MOORE FEDERAL FARMIN #14-22**

1. SURFACE FORMATION:

Wasatch

2. GEOLOGIC MARKERS ESTIMATED TOPS:

<u>Formation</u>	<u>Depth</u>
Tertiary	4,000'
Preuss	11,300'
Preuss-salt	12,300'
Twin Creek	12,500'
Nugget	14,000'
Ankareh	15,000'
Total Depth	15,200'

3. WATER, OIL AND GAS ZONES:

Twin Creek	12,500'	Oil
Nugget	14,000'	Oil

If any zones produce water, they will be adequately protected and reported.

All potentially productive hydrocarbon zones will be cemented off.

4. PROPOSED CASING STRING (ALL NEW):

<u>Depth</u>	<u>Size</u>	<u>Grade</u>	<u>Weight</u>	<u>Joint</u>	<u>Thread</u>
0-5000'	13 3/8"	S-95	72#	LT & C	8 Round
0-12,700'	9 5/8"	S-95	53.5#	LT & C	8 Round
thru salt formation (approx. 1,000')	9 7/8"	S-105	62.8#	LT & C	8 Round
To T.D.	7"	S-95	32#	LT & C	8 Round

Design Criteria: Tension $(SF_T) = 1.8$
Collapse $(SF_C) = 1.25$
Burst $(SF_B) = 1.0$

5. PRESSURE CONTROL EQUIPMENT:

Type: Double Gate Hydraulic with Annular Preventer on Top

Pressure Rating: 5000 psi

Size: 13 5/8"

Testing Procedure: Equipment will be pressure tested upon installation to 70% casing yield strength.

Testing Frequency: Operational checks to be made daily and recorded on tour sheet.

Refer to Exhibit A - (BOP diagram)

6. DRILLING FLUIDS:

<u>Interval</u>	<u>Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>
0-5000'	Native	8.5-9.0	30-40	NC
5000'-12,000'	KCl	9.0-9.3	30-40	10-15
12,000'-12,700'	Salt Mud	10.4+	30-50	8-10
12,700-T.D.	LSND	8.7-9.0	30-40	8-12

Sufficient mud inventory will be maintained on location during drilling to handle any adverse conditions that may arise.

7. AUXILIARY EQUIPMENT:

- A. A kelly cock will be kept in the string at all times.
- B. Drilling fluids will be monitored visually, by flow sensor device and by pit level indicator.
- C. A stabbing valve will be kept on the derrick floor to be stabbed into the drill pipe whenever the kelly is not in the string.
- D. No float will be used.

8. EVALUATION PROGRAM:

<u>Type Log</u>	<u>From</u>	<u>To</u>
BHC Sonic	Surface	T.D.
DLL	BSC	Top Salt
DIL	BIC	T.D.
CNL/FDC	BIC	T.D.
Dipmeter	BSC	T.D.

Cores

None

Drillstem Tests

As needed

Stimulation

Stimulation and/or frac. treatment procedures cannot be determined at this time. Prior to any treatment, the BLM Oil & Gas will be notified by "Sundry Notice", form 9-331, for approval.

The logging program may be changed at the discretion of the well site geologist.

The drill site, as approved, will be of sufficient size to accommodate all completion operations.

9. ABNORMAL CONDITIONS:

It is not anticipated that abnormal temperatures, pressures or toxic gases will be encountered at this location. H₂S is not present in the formations encountered in this well.

10. DRILLING ACTIVITY:

Estimated spud date is August 1, 1983. It will require approximately 300 days to complete this well.

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-47812

RECEIVED
JUN 23 1983

and hereby designates

NAME: The Anschutz Corporation
ADDRESS: 2400 Anaconda Tower, 555 Seventeenth Street
Denver, Colorado 80202

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

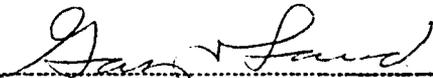
Township 3 North, Range 7 East
Section 22: Lots 2, 3, 4, N $\frac{1}{2}$ NE $\frac{1}{4}$,
SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$,
NW $\frac{1}{4}$ SE $\frac{1}{4}$

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

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

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

INTERSTATE INVESTMENT COMPANY



(Signature of lessee)

6 East 43rd Street, 21st Floor
New York, New York 10017

(Address)

6/23/83

(Date)

**MULTI-POINT
SURFACE USE AND OPERATIONS PLAN (NTL-6)
MOORE FEDERAL FARMIN #14-22**

1. EXISTING ROADS

- A. Proposed Well Site
The proposed well-head location, pad configuration, reserve pit and 200 foot reference points are staked. The surveyor's plat is attached. (Exhibit B)
- B. Proposed Route
To reach the location from Evanston, Wyoming, travel south on the Yellow Creek Road, an improved county road, approximately 14 miles to the intersection with the main access road to the East Gate of the Anschutz Ranch East Unit Operations; thence 2 miles southwest to said East Gate; thence approximately 9 miles southwest on improved Anschutz Ranch roads (see Exhibit C) to an existing two track road; thence 3/4 of a mile to the proposed well location.
- C. Access Roads
See Exhibit C
- D. Existing Roads-Exploratory Well
Not applicable.
- E. Existing Roads-Development Well
See Exhibit C
- F. Improvement and Maintenance Plans
Existing improved roads will be maintained as necessary to provide access during the drilling operation.

2. PLANNED ACCESS ROADS

Access to the lease section is across improved private roads on land owned by Anschutz Land and Livestock Company. (See attached Right-of-Way Agreement.) These roads will be maintained as necessary.

The final 6/10 of a mile of access road is across private surface owned by the T.E. Moore Ranching Company. This existing two track road will require minor rerouting and upgrading. It shall be designed and built to BLM specifications. The road location was flagged and agreed on by all parties at the onsite inspection, July 12, 1983.

- A. Width - 30' roadway and 60' right-of-way.
- B. Maximum grade - 7% on existing private roads
2% on new construction on lease
- C. Turn-outs - none
- D. Drainage Design - The road will be crowned, ditched and water turn-outs constructed as required

- E. Culverts - as required by surface owner
- F. Surface material - Native materials from construction of access road will be sufficient. All outside construction materials which will be required will be purchased from local contractors. The source is located on fee land owned by The Anschutz Corporation.
- G. Gates, Cattleguards or Fence Cuts - A double wide (16') cattle guard and double swinging gates will be erected on the lease boundary.
- H. The access road has been staked and flagged.

3. LOCATION OF EXISTING WELLS

The proposed well is located 1.5 miles northwest of a producing well. Thus, it qualifies as a development well under the BLM definition.

- A. Abandoned Wells - None
- B. Water Wells - None
- C. Temporarily Abandoned Wells - None
- D. Disposal Wells - None
- E. Drilling Wells - None
- F. Producing Wells - None
- G. Shut-in Wells - None
- H. Injection Wells - None
- I. Monitoring Wells - None

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES OWNED BY THE ANSCHUTZ CORPORATION

A. Existing Facilities

- 1. Tank batteries - none
- 2. Production facilities - none
- 3. Oil gathering lines - none
- 4. Gas gathering lines - none

B. Proposed New Facilities (See Exhibit E)

- 1. All production facilities will be located on the disturbed portion of the well pad.
- 2. Production facilities will require an area approximately 300' x 220'.
- 3. Production facilities will be accommodated on the well pad. Construction materials needed for installation of the production facilities will be obtained from a local supplier.
- 4. The entire location will be fenced to protect livestock and wildlife.

C. Rehabilitation

- 1. Rehabilitation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as specified by the BLM and the surface owner.

5. LOCATION AND TYPE OF WATER SUPPLY

- A. Location and Type of Water Supply
Water will be obtained through a temporary diversion of water rights owned by the Anschutz Land and Livestock Co. Inc., an affiliated company. Application for the permit and diversion has been filed with the State Engineer's office, Salt Lake City, Utah, and documentation will be provided when received.
- B. Method of Transportation
Water will be piped from a water well to the well head location.
- C. Water Wells
It is anticipated that a water well will be drilled on the location by an independent contractor licensed and approved by the State of Utah.

6. SOURCE OF CONSTRUCTION MATERIALS

- A. Materials
Construction materials required for access road and well pad construction will be purchased from local suppliers.
- B. Land Ownership
No construction materials will be obtained from Federal or Indian lands. The material source is located on fee land owned by The Anschutz Corporation.
- C. Materials Foreign to Site
If production is obtained, any construction materials needed for surfacing access road and installation of production facilities will be purchased from a local supplier.
- D. Access Roads
No new access roads for construction materials will be required.

7. METHODS OF HANDLING WASTE MATERIAL DISPOSAL:

- A. Cuttings
Cuttings will be deposited in the reserve pit.
- B. Drilling Fluids
Drilling fluids and muds will remain in the reserve pit until dry. If methods to facilitate drying are required, the BLM will be contacted about approved methods. The reserve pit will not be "squeezed" or "crowded." When the pit is backfilled cuttings, drilling fluids and muds will be covered with at least three feet of earth.
- C. Produced Fluids
Fluids produced during the completion operation will be collected in test tanks. Any oil, gas, salt water or other noxious fluids will be removed and disposed of in accordance with NTL-2B.
- D. Sewage
A chemical collector tank will be provided for the on-site facilities and will be pumped and removed by an independent contractor.

- E. Garbage and Other Waste Material
Garbage and waste will be stored in an approved container provided by an independent contractor and removed on an as required basis.
- F. Cleanup of Well Site
After the rig moves out, all materials will be cleaned up and no adverse materials will be left on location. The entire location will be fenced during drilling and kept fenced until such time as the pits are backfilled.

8. ANCILLARY FACILITIES:

None

9. WELLSITE LAYOUT:

- A. Cross-sections of Drill Pad
Exhibit B shows the drill site layout as staked. Cross-sections have been drafted to visualize the planned cuts and fills across the location.
- B. Drilling Facilities
Exhibit D is a diagram showing the rig layout. No permanent living facilities are planned. There will be three trailers on location, one each for mud logger, tool pusher and geologist/engineer.
- C. Production Facilities
Exhibit E shows the proposed production facilities layout.
- D. Lining of Pits
There is not sustained water flow in the area. The ground water table is far below any planned excavation. No liners are needed.
- E. Environmental Considerations
 - 1. The top twelve (12) inches of topsoil and all vegetation on the site will be removed and stockpiled. The stockpiled soil (approximately 2800 cubic yards) will not be used for any purpose except the rehabilitation of the disturbed area.
 - 2. During construction and restoration, surface use and disturbance will not extend more than 40 feet beyond the cut and fill slopes of the drill pad.
 - 3. During drilling and production, all surface use will be confined to the drill pad and access road unless written approval is secured.
 - 4. For production or abandonment, final cut and fill slopes will be no steeper than 3:1, and will be left rough or serrated to prevent erosion.

10. PLANS FOR RESTORATION OF THE SURFACE

- A. Site Cleanup
Backfilling, leveling and contouring will be done as soon as all pits have dried. Spoils materials will be buried immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.

- B. Restoration Plans
The stockpiled soil will be spread over the area. Revegetation will be accomplished by planting mixed grasses as stipulated by the BLM and the surface owner. Revegetation is recommended for road area, as well as around drill pad.
- C. Fencing
The entire location will be fenced during drilling operations. The fencing will be maintained until leveling and cleanup are completed.
- D. Overhead Flagging
If any oil or other substances are on the pits and are not immediately removed after operations cease, the pit containing the oil or adverse substances will be flagged overhead or covered with wire mesh.
- E. Timetable for Rehabilitation
The rehabilitation operations will begin after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately. Other cleanup will be done as soon as appropriate. Planting and revegetation is considered best in Fall, 1984, unless requested otherwise.

11. OTHER INFORMATION

- A. Environment
See cultural resource inventory for characteristics.
- B. Surface Use and Ownership
The primary surface use is for grazing. The well site surface is owned by T. E. Moore Ranching Company of Coalville, Utah.
- C. Proximity of Water, Dwellings and Historical Sites
 1. The closest source of live water is Porcupine Creek, located 3/4 of a mile south of the proposed well site.
 2. The closest occupied dwellings are approximately 1 1/2 miles southeast of the proposed well site.
 3. There are no known archeological, historical or cultural resources that will be disturbed by this drilling operation.
- D. Access and Surface Damage Negotiations
The final 6/10 of a mile of access road and the well site are located on private surface owned by the T.E. Moore Ranching Co., Coalville, Utah. Numerous attempts have been made to obtain surface access and reclamation agreements with the surface owner, all of which have been unsuccessful. Attached hereto is an affidavit attesting to the good faith attempt to negotiate access and reclamation agreements and a copy of a document and offer presented to the representative of the T.E. Moore Ranching Co. Efforts will continue to obtain an acceptable agreement with the surface owner, but due to the unsuccessful attempts to date, approval of this application is requested without the benefit of said agreement.

All reclamation and surface damage will be reclaimed to BLM specifications. Any costs associated with this reclamation are covered under Bond No. 80878571 issued by the Federal Insurance Company (see attached bond).

1. LESSEE'S OR OPERATOR'S REPRESENTATIVE

William J. Miller, Operations Coordinator
555-17th Street
Suite 2400
Denver, Colorado 80202
(Office) (303) 825-6100 - through July 31, 1983
(Office) (303) 298-1000 - after August 1, 1983
(Residence) (303) 797-8071

2. 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 exists; 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 sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date: July 15, 1983



W.J. Miller
Operations Coordinator
The Anschutz Corporation

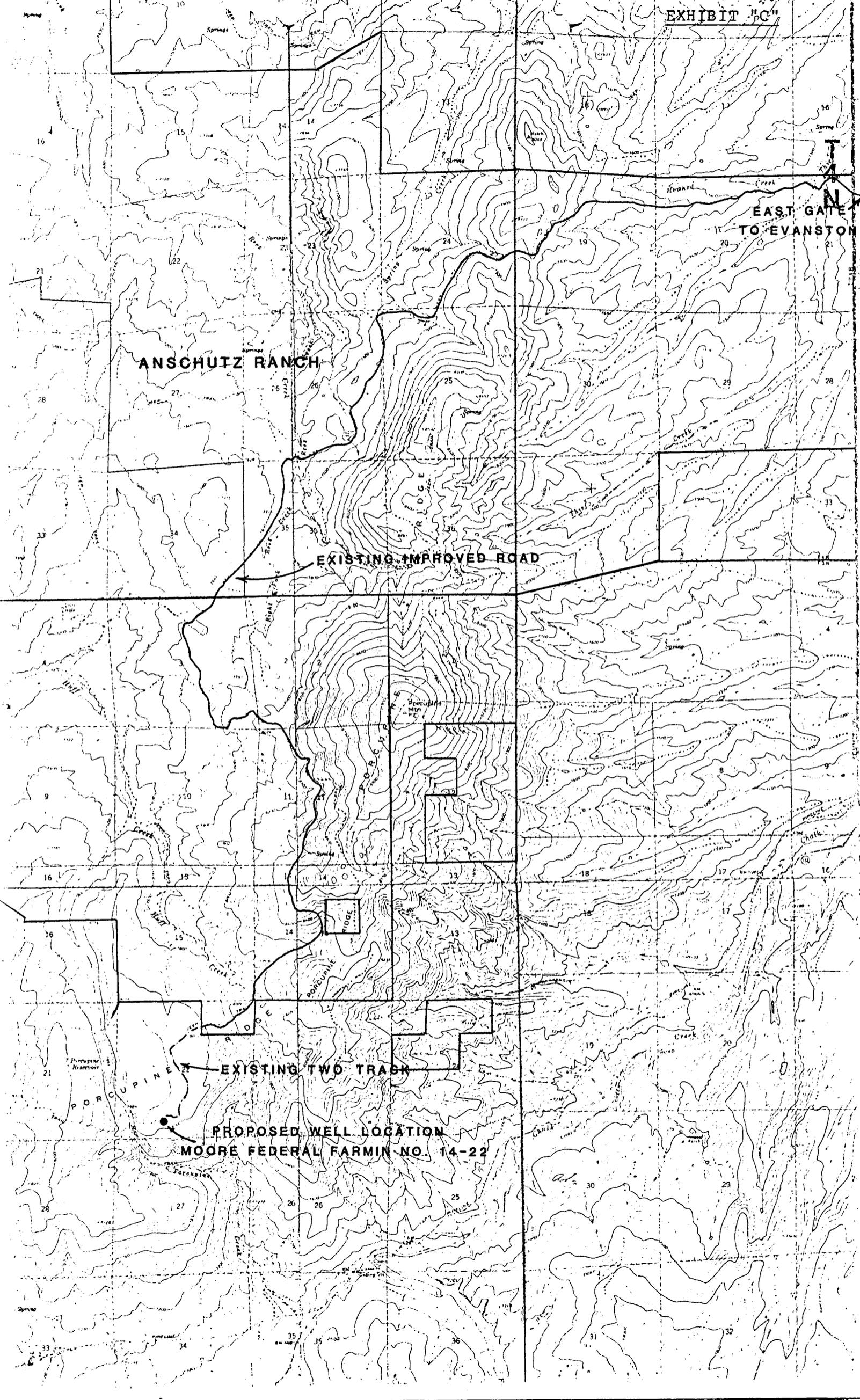
ANSCHUTZ RANCH

EAST GATE
TO EVANSTON

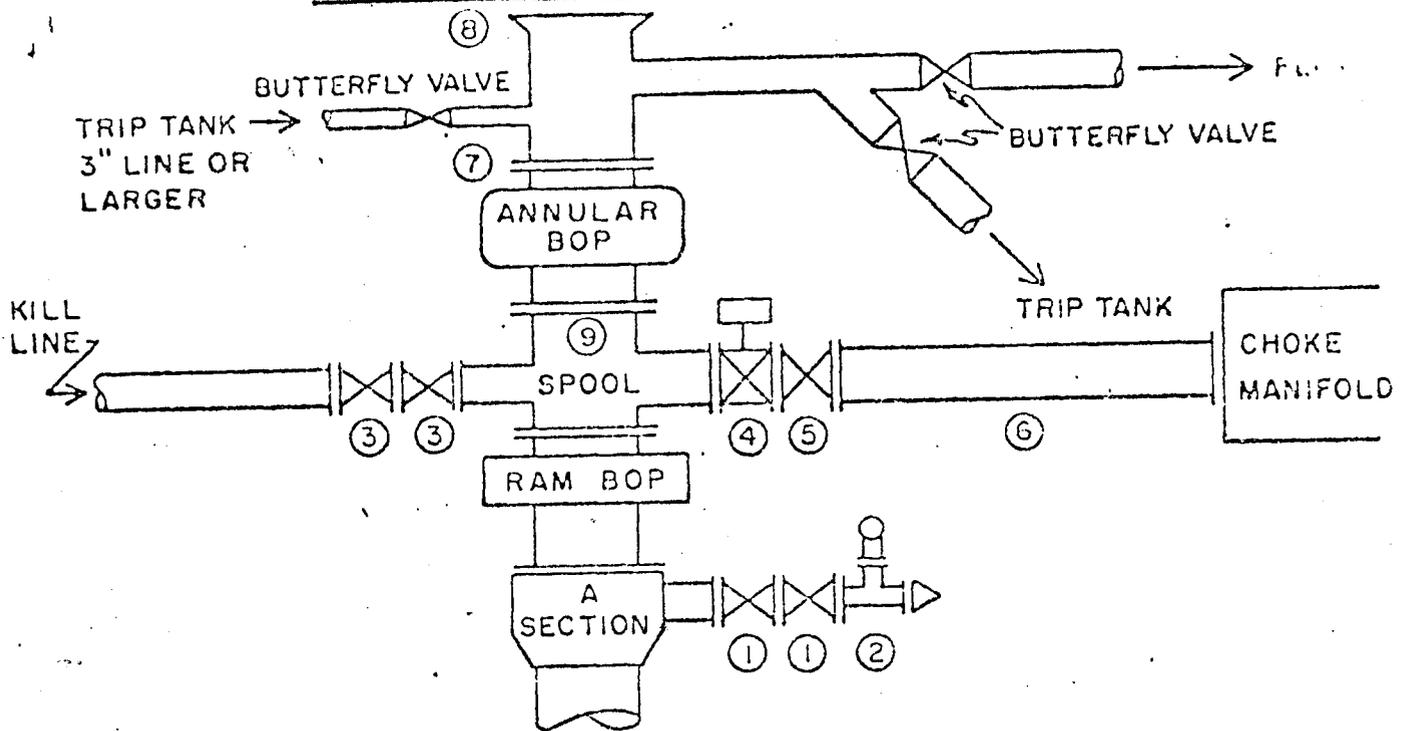
EXISTING IMPROVED ROAD

EXISTING TWO TRACK

PROPOSED WELL LOCATION
MOORE FEDERAL FARMIN NO. 14-22



REQUIRED ARRANGEMENT OF A TWO-BOP SYSTEM



COMPONENT SPECIFICATIONS

1. Screwed plug or gate valve - 2" size - same working pressure as 'A' section.
2. Pressure gauge and/or connection to casing pressure gauge on hydraulic choke control panel.
3. Flanged plug valve - 2" minimum size - HOWCO "Lo Torc" or equivalent.
4. Flanged hydraulically controlled gate valve - 4" minimum size (Actuated valve not permitted).
5. Flanged plug valve - 4" minimum size - HOWCO "Lo Torc" or equivalent.
6. Flowline from spool to choke manifold - 4" minimum size - all connections must be flanged or welded.
7. Connection at top of annular preventer must be equipped with an API ring groove, API ring gasket and API companion flange on bell nipple. All flange studs must be installed.
8. The ID of the bell nipple and companion flange must not be less than the ID of the BOP stack.
9. Spool - 24" height with 2 flanged side outlets - 4" and 2" minimum ID.

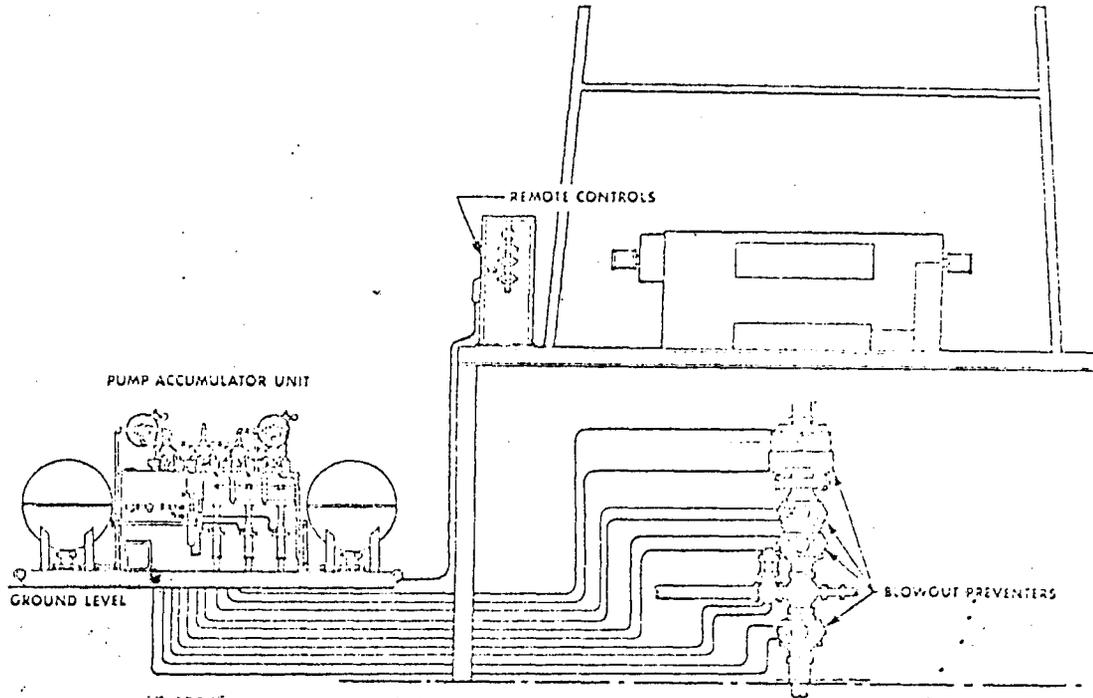
NOTE:

- a) Unless specified otherwise in the Bid Letter and/or Contract, the contractor will furnish and maintain all components shown in Figure 2 except the 'A' section and items 1 and 2, which will be furnished by AQPC. Trip tank line valves will be furnished by the party responsible for supplying the trip tank.
- b) The choke line between the drilling spool and choke manifold should not contain any bend or turn in the pipe body. Any bend or turn required should be made with a running tee with a blind flange or welded bullplug. All connections should be flanged or welded. All fabrications requiring welding must be done using an AQPC certified welder. Welds should be stress relieved using an Exomet kit or the "rosebud" technique with controlled cooling.

*A two-BOP stack should be used only on shallow, low risk inland wells where a small rig is being utilized with a low substructure that will not accommodate a third BOP.

EXHIBIT 1-A

Accumulator System diagram to be used
with blowout preventer.



Cylindrical 80 gallon capacity accumulator
with sufficient piping, remote control panel
and unit control panel.

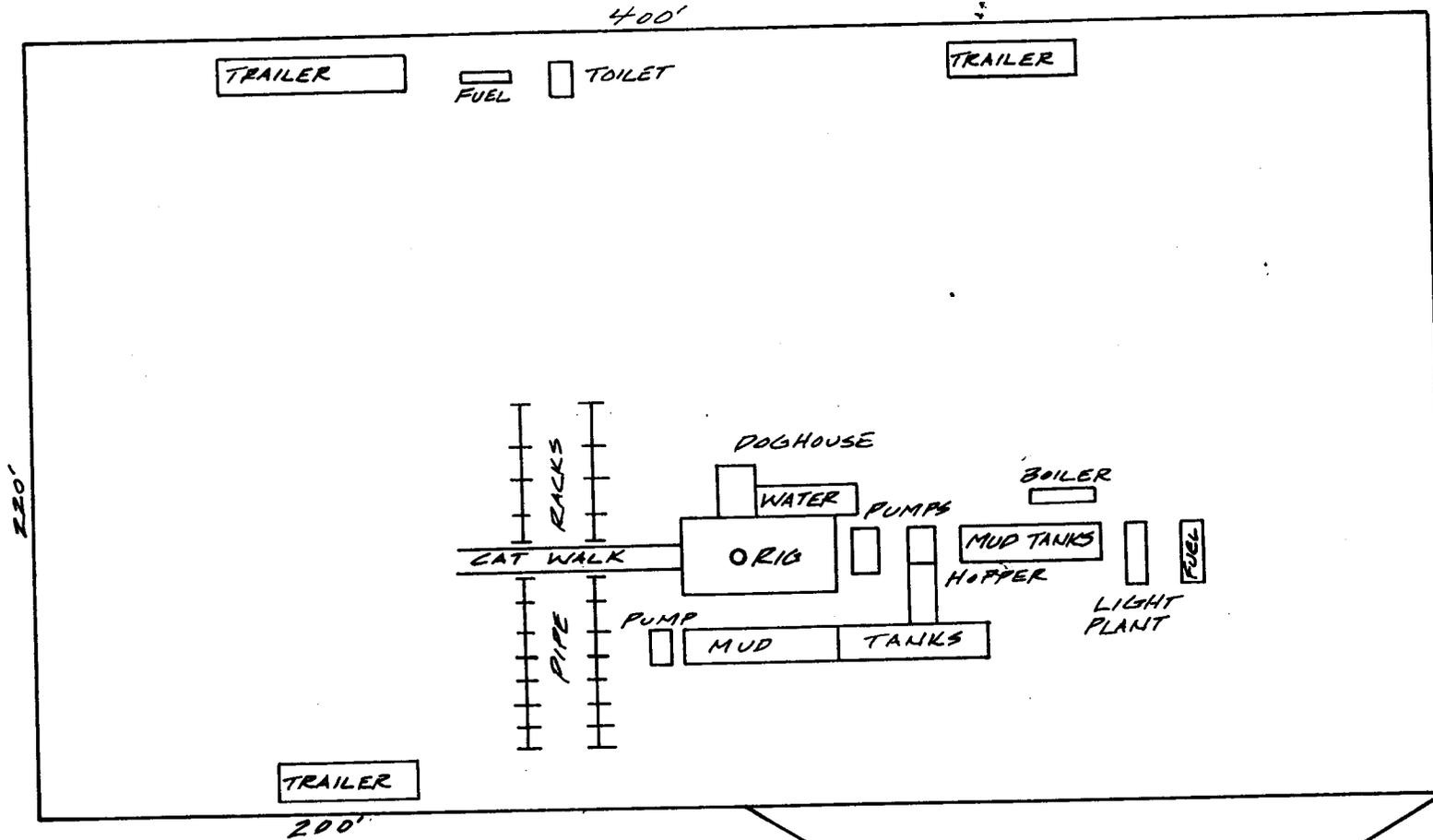
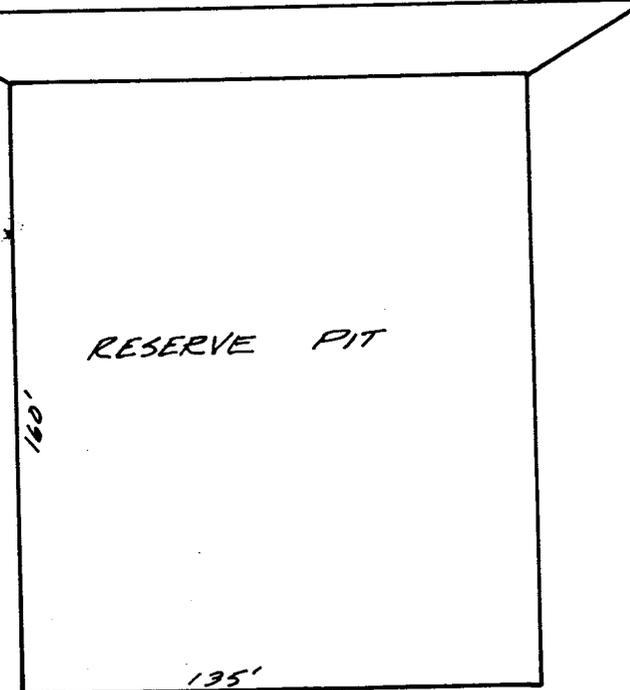
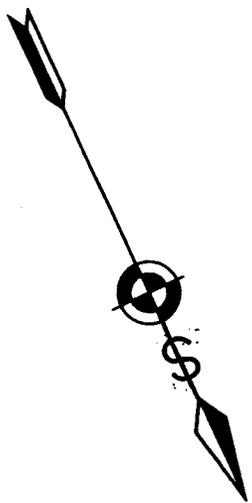


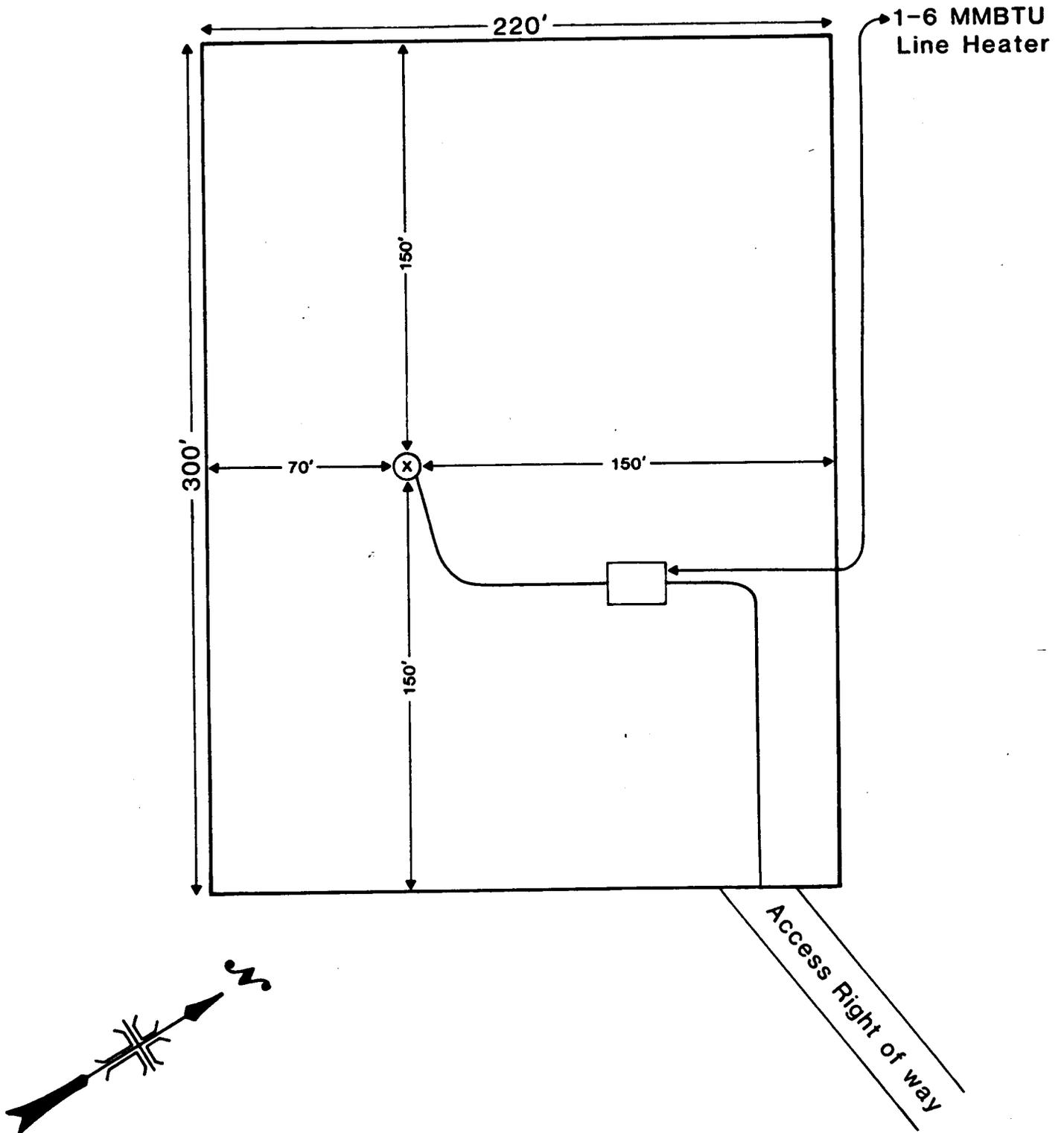
EXHIBIT "D"



ANSCHUTZ CORP.
 RIG LAYOUT
 MOORE FEDERAL FARMING
 NO. 14-22
 K.M.L.

SCALE 1" = 50'

EXHIBIT E



PRODUCTION FACILITY DIAGRAM

MOORE FEDERAL #14-22

SUMMIT CO., UTAH

A CULTURAL RESOURCES SURVEY OF
ANSCHUTZ CORPORATION'S PORCUPINE 14-22" WELL
AND ADJACENT AREAS, PORCUPINE RIDGE, SUMMIT COUNTY, UTAH

by

Michael R. Polk
Senior Research Archaeologist

Prepared for:

Anschutz Corporation
555 17th St., Suite #2400
Denver, Colorado 80202

Prepared by:

Environment Consultants, Inc.
4263 Monroe Boulevard
Ogden, Utah 84403

Under Antiquities Permit No. 82-UT-358

Cultural Resources Report 83-22

June 24, 1983

INTRODUCTION

In early June 1983 the Anschutz Corporation requested that Environment Consultants, Inc. (ECI) conduct an archaeological survey of 520 acres of land where well pads and access roads are planned. The proposed area to be surveyed is on Porcupine Ridge, about 15 miles east northeast of Coalville, Utah. The surface is privately owned by Veron Moore and the Anschutz Corporation, while all mineral rights are controlled by the Federal Government through the Bureau of Land Management (BLM).

The project is located in T. 3 N., R. 7 E., S. 22 (all of section except SENE and E $\frac{1}{2}$ SE $\frac{1}{4}$) (Fig. 1). It lies on the Upton, Utah Quadrangle 7.5 minute (1967). The survey was conducted by the author under the authority of Federal Antiquities Permit No. 82-UT-358 between June 17 and 22, 1983.

A file search for previous surveys and known historic and pre-historic sites was carried out through Liz Manion, Antiquities Section, Utah Historical Society in Salt Lake City on June 13, 1983. No surveys have been conducted and no sites are recorded within several miles of the project area. A search of the National Register of Historic Places did not reveal the presence of any sites within or near the survey area.

ENVIRONMENT

The project lies in the Wasatch Mountains on a high altitude bench area known as Porcupine Ridge. Almost the entire survey area lies on level to slightly undulating terrain which drops off sharply or slopes up steeply just outside the boundary limits of the survey. Much of the area contains thin soils with large water worn cobbles scattered over some surfaces. Several small streams occur within the survey area and a small manmade reservoir (Porcupine Reservoir) lies just outside the western edge of the survey area. Soils in the area are thin, light brown silty loams mixed with considerable waterworn cobble material.

Vegetation is dense with large stands of Quaking aspen (populus tremuloides) prevalent throughout the area. Small isolated stands and individual specimens of Douglas fir (Pseudotsuga menziesii) and a few old growth Ponderosa pines (Pinus ponderosa)

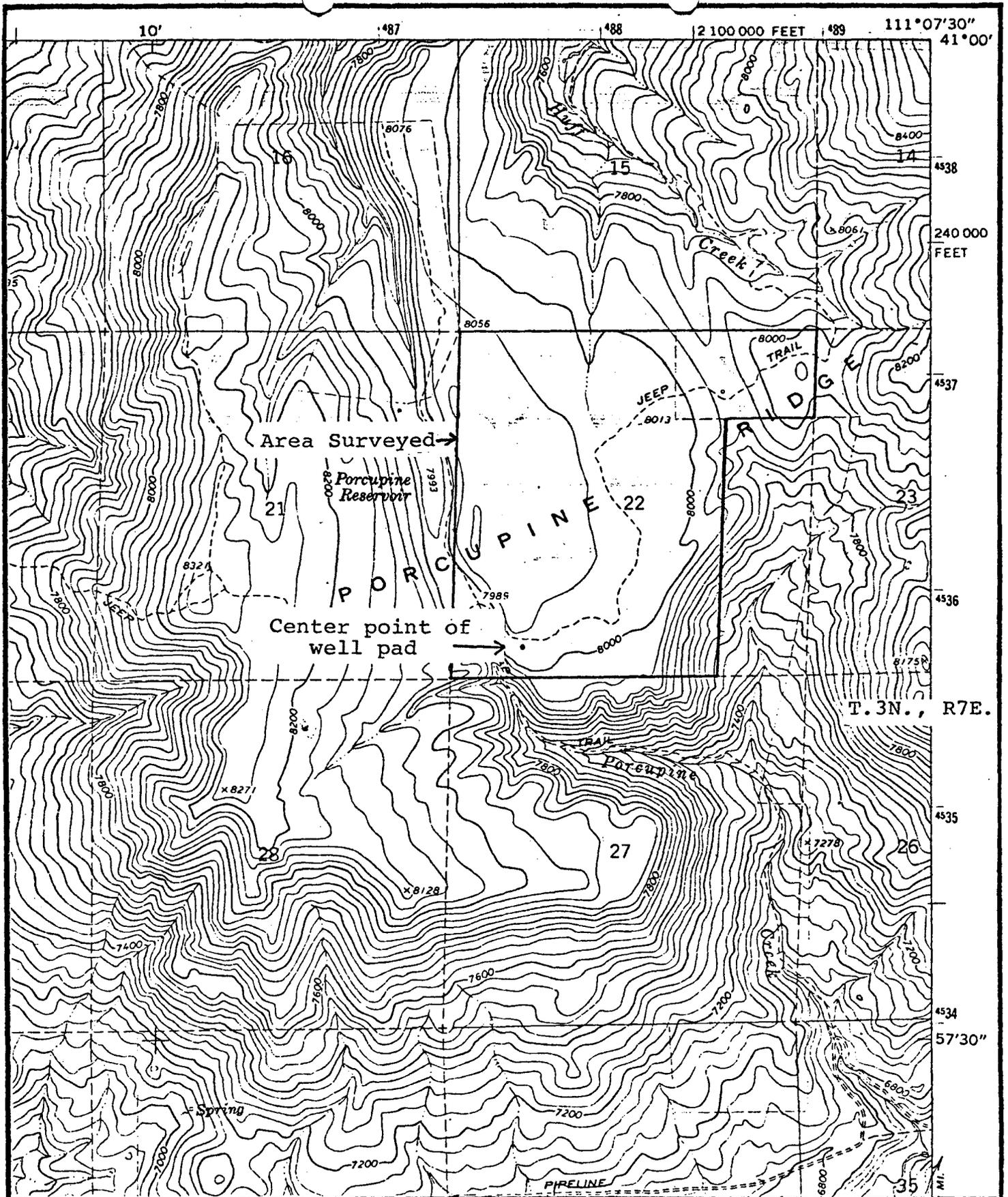


Figure 1. Location of surveyed area; Anschutz Corporation's proposed 14-22" well and adjacent areas, Porcupine Ridge, Summit County, Utah. Taken from: USGS Upton Quadrangle, Utah 7.5' (1967).



also occur throughout the area, but most fir trees appear to have been logged off the area decades ago to be replaced by the dense stands of aspen. Understory growth is also dense. Frequent interspersed wet meadows and other drier clearings occur in the area. Wet areas are dominated by various grasses while drier openings are dominated by Big sagebrush (Artemisia tridentata). While the vegetation cover tends to be dense, the late spring has not yet allowed the understory species to completely leaf out and thus surface visibility throughout the survey area was at least 50 percent or greater.

The area is well-watered, though no permanent sources of water appear to occur within the survey area. The nearest source is Porcupine Creek which lies less than one kilometer to the south. Elevation of the area ranges from 7600 to 8080 feet a.s.l., although almost all of the area lies at about 8000 to 8040 feet. Erosion of the area is minimal. Some stream cutting is the only noticeable activity.

There is minimal cultural disturbance noted. Most visible disturbance effects are a few dirt roads and a small weather station. Nevertheless, it appears that almost the entire area was once cut down for timber and that aspen forests have replaced the fir trees that once probably covered the area.

METHODOLOGY

The author conducted an intensive cultural resources survey of 520 acres of land (Fig. 1). The area was examined by walking 15 meter-wide east-west oriented transects. Ground visibility was good to excellent because plants were just beginning to leaf out. It averaged 50 percent, but some areas were as high as 90 to 95 percent.

RESULTS

No significant cultural resources were found within the survey area. A small aspen log cabin was found in the NENE portion of the section with an adjacent log corral. This structure apparently dates to the 1950's when a person attempted to homestead (?) the area (Veron Moore, personal communication, 1983). Inspection of the structure confirmed a recent date for the site. Wire nails and saw cut lumber were used in the construction of the cabin and very recent trash was found within it.

One other cultural resource was noted just outside the survey area which may have some historical value. At the base of a tree near the southwest corner of section 22 (though this was in section 21), a large quartzite cobble was found which had a date and name pecked into it thusly:

1899
C. Frie

This area was resurveyed in 1899 and so it is likely that C. Frie was a crew member on the resurvey team (Rick Ludwick, Uinta Engineering Surveyor, Personal Communication, 1983).

RECOMMENDATIONS

Based upon the findings of this survey, cultural resources clearance is recommended for the project area.

Environment Consultants, Inc. conducted this investigation with techniques which are considered to be adequate for evaluating any cultural resources that could be affected adversely by this project. However, should unrecorded cultural resources be discovered during construction, an immediate report should be made to the BLM Salt Lake District Office, Salt Lake City, Utah.

RIGHT OF WAY AGREEMENT

The undersigned, **Anschutz Land and Livestock, Co. Inc.** (Grantor), being the owner of the hereinafter described lands, and **The Anschutz Corporation**, being the operator of certain oil and gas leases of record in the area, do hereby enter into this Right-of-Way Agreement where the Grantor, in consideration of the sum of Ten Dollars (\$10) and other good and valuable consideration, the receipt of which is hereby acknowledged, will allow The Anschutz Corporation, their agents, or assigns, passage across the hereinafter described lands in a manner compatible with oil and gas drilling, completion, and production operations.

This Right-of-Way will be across the following described lands:

Township 3N, Range 7E, SLB&M

Section 2 - All
Section 3 - All
Section 10 - All
Section 11 - All
Section 14 - All
Section 15 - All
Section 22 - NE $\frac{1}{4}$ NE $\frac{1}{4}$, E $\frac{1}{2}$ NE $\frac{1}{4}$ NE $\frac{1}{4}$

This shall include the right of The Anschutz Corporation, their agents, or assigns, to construct a road across the Grantor's land and shall also include the right of The Anschutz Corporation, their agents, or assigns, to move derricks, drilling tools, vehicles and all other machinery and equipment necessary or incident to the drilling, testing, completion, and operation of an oil and gas well.

Provided, however, this agreement is entered into upon the following terms and conditions which The Anschutz Corporation, their assigns, and agents agree to comply with by acceptance of this agreement. Those conditions to be performed by The Anschutz Corporation, their agents or assigns are as follows:

1. Cattle guards or gates will be constructed at all places where they go through the land owners' fences, and are requested by the Grantor, and gates will be kept closed at all times except when opened for passage of traffic.
2. If there is any fill used for roads across any drainage, then culverts will be used for the free flow of water through said drainage.
3. The road and attendant facilities will be maintained in a manner consistent with good and prudent oil field practice and will only be abandoned or reclaimed after further consultation with the Grantor.
4. It is understood that the road across the owners land shall not exceed sixty (60) feet in width.
5. It is expressly understood that this settlement is only for surface damage for the construction of a road and it is not a settlement for any damages to contiguous property, personal property of the land owners or a release of any personal injuries that may be sustained by reason of the operations carried on by The Anschutz Corporation, their agents or assigns.
6. If it is agreed between the parties that if the right-of-way granted herein is to be abandoned, said abandonment and reclamation will be in compliance with applicable State and/or Federal Regulations.

Dated this 30 day of June, 1983

ANSCHUTZ LAND AND LIVESTOCK CO., INC.

By Miles A. Williams
Miles A. Williams/Vice-President

Witness:

William J. Miller

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-47812

and hereby designates

NAME: The Anschutz Corporation
ADDRESS: 2400 Anaconda Tower, 555 Seventeenth Street
Denver, Colorado 80202

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

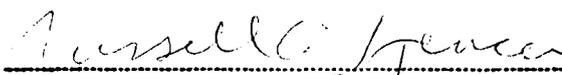
Township 3 North, Range 7 East
Section 22: Lots 2, 3, 4, N $\frac{1}{2}$ NE $\frac{1}{4}$,
SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$,
NW $\frac{1}{4}$ SE $\frac{1}{4}$

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

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

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

DAVIS OIL COMPANY



(Signature of lessee)

Russell A. Spencer, District Landman
410 Seventeenth Street, Suite 1400
Denver, Colorado 80202

(Address)

June 15, 1983

(Date)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah

SERIAL NO.: U-47812

and hereby designates

NAME: The Anschutz Corporation

ADDRESS: 2400 Anaconda Tower, 555 Seventeenth Street
Denver, Colorado 80202

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

Township 3 North, Range 7 East
Section 22: Lots 2, 3, 4, N $\frac{1}{2}$ NE $\frac{1}{4}$,
SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$,
NW $\frac{1}{4}$ SE $\frac{1}{4}$

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

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

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

AE Investments, Inc.

Anne H. Silk, AVP

(Signature of lessee)

7-5-83

(Date)

151 Farmington Avenue
Hartford, CT 06156

(Address)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL No.: U-47812

and hereby designates

NAME: The Anschutz Corporation
ADDRESS: 2400 Anaconda Tower, 555 Seventeenth Street
Denver, Colorado 80202

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

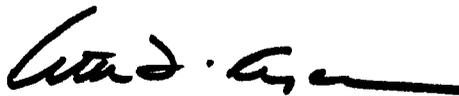
Township 3 North, Range 7 East
Section 22: Lots 2, 3, 4, N $\frac{1}{2}$ NE $\frac{1}{4}$,
SW $\frac{1}{4}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$,
NW $\frac{1}{4}$ SE $\frac{1}{4}$

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

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

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

CENTURY CHARTERING CO., INC.



(Signature of lessee)

650 Fifth Avenue
New York, New York 10019

(Address)

2/24/83
(Date)

DESIGNATION OF OPERATOR

The undersigned is, on the records of the Bureau of Land Management, holder of lease

DISTRICT LAND OFFICE: Salt Lake City, Utah
SERIAL NO.: U-47812

and hereby designates

NAME: The Anschutz Corporation
ADDRESS: 2400 Anaconda Tower, 555 Seventeenth Street
Denver, Colorado 80202

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

Township 3 North, Range 7 East
Section 22: Lots 2, 3, 4, N $\frac{1}{2}$ NE $\frac{1}{4}$,
SW $\frac{1}{2}$ NE $\frac{1}{4}$, NW $\frac{1}{4}$, N $\frac{1}{2}$ SW $\frac{1}{4}$,
NW $\frac{1}{4}$ SE $\frac{1}{4}$

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

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

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

SANDEFER ENERGY, INC.



(Signature of lessee)

S. E. Richards, Vice President-Land
First City Tower, 1001 Fannin, Suite 2300
Houston, Texas 77002

(Address)

6-22-83

(Date)

STATE OR NATIONWIDE OIL AND GAS BOND
 Act of February 25, 1920 (30 U.S.C. Sec. 181);
 Act of August 7, 1947 (30 U.S.C. Sec. 351)

KNOW ALL MEN BY THESE PRESENTS, That we **THE ANSCHUTZ CORPORATION**
 of **2400 Anaconda Tower, 555 17th Street, Denver, Colorado 80202**
 as principal, and **THE FEDERAL INSURANCE COMPANY**
 of **Short Hills, New Jersey**

as surety, are held and firmly bound unto the United States of America in the sum of **One Hundred Fifty Thousand and No/100's-----** dollars (\$ **150,000.00**), lawful money of the United States, which sum may be increased or decreased by a rider hereto executed in the same manner as this bond, for the use and benefit of (1) the United States; (2) the owner of any of the land subject to the coverage of this bond, who has a statutory right to compensation in connection with a reservation of the oil and gas deposits to the United States; and (3) any lessee or permittee under a lease or permit issued by the United States prior to the issuance of an oil and gas lease for the same land subject to this bond, covering the use of the surface or the prospecting for, or development of, other mineral deposits in any portion of such land, to be paid to the United States. For such payment, well and truly to be made, we bind ourselves, and each of our heirs, executors, administrators, successors and assigns, jointly and severally.

If the amount of this bond is \$150,000 or if it is increased to that amount, the coverage shall extend to all of the principal's holdings of federal oil and gas leases in the United States, including Alaska, under the Acts cited in Schedule A.

If the amount of this bond is less than \$150,000, its coverage extends only to the principal's holdings of federal oil and gas leases in the States named in Schedule A and to any other State or States that may be named in a rider attached hereto by the lessor with the consent of the surety.

SCHEDULE A

Public Domain Leasing Act of February 25, 1920
 (30 U.S.C. Sec. 181)

NAMES OF STATES

Acquired Lands Leasing Act of August 7, 1947
 (30 U.S.C. Sec. 351)

NAMES OF STATES

The conditions of the foregoing obligations are such that, whereas the said principal has an interest in oil and gas leases issued under the Act or Acts cited in Schedule A of this bond: (1) as lessee; (2) as the approved holder of operating rights in all or part of the lands covered by such leases under operating agreements with the lessees; or (3) as designated operator or agent under such leases pending approval of an assignment or operating agreement; and

WHEREAS the principal is authorized to drill for, mine, extract, remove, and dispose of oil and gas deposits in or under the lands covered by the leases, operating agreements or designations and is obligated to comply with certain covenants and agreements set forth in such instruments; and

WHEREAS the principal and surety agree that without notice to the surety the coverage of this bond, in addition to the present holdings of the principal, shall extend to and include:

1. Any oil and gas lease hereafter issued to, or acquired by the principal in the States now named in Schedule A, or later named in a rider, the coverage to be confined to the principal's holdings under the Act or Acts cited at the head of the column in which the name of the State appears and to become effective immediately upon such issuance or upon departmental approval of a transfer in favor of the principal.

2. Any operating agreement hereafter entered into or acquired by the principal affecting oil and gas leases in the States now named in Schedule A, or later named in a rider. The coverage shall become

effective immediately upon department approval of the agreement or of a transfer of an operating agreement to the principal.

3. Any designation subsequent hereto of the principal as operator or agent of a lessee under a lease issued pursuant to the Act or Acts cited in Schedule A and covering lands in a State named in Schedule A, either presently or by rider. This coverage shall become effective immediately upon the filing of such a designation under a lease.

4. Any extension of a lease covered by this bond, such coverage to continue without any interruption due to the expiration of the term set forth in the lease.

Provided, that the surety may elect to have the additional coverage authorized under this paragraph become inapplicable as to all interests of the principal acquired more than thirty (30) days after the receipt of notice of such election by the Bureau of Land Management.

The surety hereby waives any right to notice of, and agrees that this bond shall remain in full force and effect notwithstanding:

1. A transfer or transfers, either in whole or in part, of any or all of the leases, or of the operating agreements, and further agrees to remain bound under this bond as to the interests either in the leases or in the operating agreements, or in both, retained by the principal when the approval of the transfer or transfers become effective.

2. Any modification of a lease or operating agreement, or obligations thereunder, whether made or effected by commitment of such lease or operating agreement to unit, cooperative, communitization or storage, agreements, or development contracts, suspensions of operations or production, waivers, suspensions or changes in rental, minimum royalty and royalties, compensatory royalty payments, or otherwise; and

WHEREAS the principal and surety hereby agree that notwithstanding the termination of any lease or leases, operating agreements or designations as operator or agent, covered by this bond, whether the termination is by operation of law or otherwise, the bond shall remain in full force and effect as to all remaining leases, operating agreements, or designations covered by the bond; and

WHEREAS the principal, as to any lease or part of a lease for lands as to which he has been designated as operator or agent, or approved as operator, in consideration of being permitted to furnish this bond in lieu of the lessees, agrees and by these presents does hereby bind himself to fulfill on behalf of each lessee all obligations of each such lease for the entire leasehold in the same manner and to the same extent as though he were the lessee; and

WHEREAS the principal and surety agree that the neglect or forbearance of said lessor in enforcing, as against the lessees of such lessor, the payment of rentals or royalties or the performance of any other covenant, condition or agreement of the leases, shall not, in any way, release the principal and surety, or either of them, from any liability under this bond; and

WHEREAS the principal and surety agree that in the event of any default under the leases, the lessor may commence and prosecute any claim, suit, action, or other proceeding against the principal and surety, or either of them, without the necessity of joining the lessees.

NOW, THEREFORE, IF said principal shall in all respects faithfully comply with all of the provisions of the leases referred to hereinbefore, then the above obligations are to be void; otherwise to remain in full force and effect.

Signed on this 3rd day of June, 1981, in the presence of:

NAMES AND ADDRESSES OF WITNESSES

THE ANSCHUTZ CORPORATION



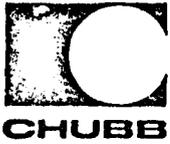
By:  (L.S.)
(Principal)

2400 Anaconda Tower
555 17th St., Denver, Colo. 80202
(Business address)

THE FEDERAL INSURANCE COMPANY

By:  (L.S.)
(Surety)
Ken Cole, Attorney-in-Fact

600 S. Cherry St. - Penthouse
Denver, Colorado 80222
(Business address)



CHUBB/PACIFIC INDEMNITY GROUP

1385 South Colorado Boulevard, Denver, Colorado 80222 • Phone: (303) 758-7400

FEDERAL INSURANCE COMPANY

RIDER

RIDER to be attached to and form a part of Bond No. 8087-85-71 wherein FEDERAL INSURANCE COMPANY is named as surety, on behalf of ANSCHUTZ CORPORATION as Principal, in favor of UNITED STATES OF AMERICA, U.S. Department of Interior, Bureau of Land Management, in the sum of \$150,000 dated June 3, 1981.

IT IS HEREBY UNDERSTOOD AND AGREED notwithstanding the failure of the Oblige to receive Bond No. 8087-85-71 on June 3, 1981 that the Surety and Principal agree that their liability under Bond No. 8087-85-71 was and is intended to cover the period from June 3, 1981 forward, or until such bond is replaced or cancelled, as agreed by the Oblige.

NOTHING HEREIN contained shall be held to vary, alter, waive, or extend any of the terms, conditions, provisions or limitations of the attached bond other than as stated above.

Witness the following signatures and seals this 20TH day of APRIL, 1982

Witness:

Robert A. Safe

Anschutz Corporation

Douglas L. Pl

Federal Insurance Company

Robert E. Dawson
Attorney-in-Fact

Accepted:

Obligee

By _____

RIDER

Applicability of Oil and Gas
Nationwide Bond to Geothermal
Resources Regulations effective
June 3, 1981

To be attached to and form a part of Nationwide Oil and Gas Bond
No. 80 87 85 71 dated the 3rd day of June, 1981, issued by the FEDERAL
INSURANCE COMPANY, Short Hills, New Jersey, on behalf of The Anschutz
Corporation, Denver, Colorado, in favor of the United States of America
in the sum of One Hundred Fifty Thousand and no/100 Dollars
(\$150,000.00).

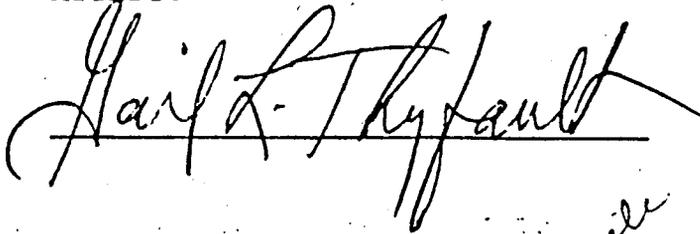
It is hereby understood and agreed that effective June 3, 1981,
the coverage shall extend to all of the principal's holdings of Federal
Geothermal Leases under the Geothermal Steam Act of 1970 (30 U.S.C.
1001-1025) as implemented by the Rules and Regulations regarding
Geothermal Resources as published in Volume 38 No. 245 Federal Register
dated December 21, 1973.

All of the other terms and conditions of this Bond are
to remain the same.

This rider shall become effective as of June 3, 1981.

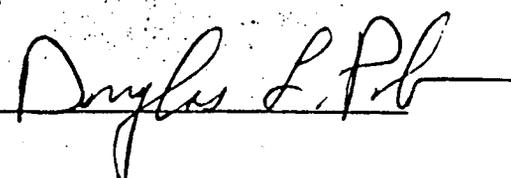
Signed, sealed and dated this 3rd day of June, 1981.

ATTEST:



*need separate
bond*

THE ANSCHUTZ CORPORATION

By: 

FEDERAL INSURANCE COMPANY

By: 

Ken Cole
Attorney-in-Fact

RIDER

To be attached to and form a part of Nationwide Oil & Gas Bond No. 80 87 85 71 dated the 3rd day of June, 1981 issued by the FEDERAL INSURANCE COMPANY, Short Hills, New Jersey, on behalf of The Anschutz Corporation, Denver, Colorado, in favor of the United States of America in the sum of One Hundred Fifty Thousand & No/100 Dollars (\$150,000.00).

It is hereby understood and agreed the principal and surety on this bond consent to accept the lease liabilities in the leases in which the principal acquires an interest including, but not limited to, the proper plugging and abandonment of all wells thereon.

Except as herein specifically modified, the conditions, provisions and limitations of said bond shall remain in full force and effect.

Signed, sealed and dated this 3rd day of June, 1981.

ATTEST:

Hail L. Thyfault

THE ANSCHUTZ CORPORATION

By: Douglas L. P. B.
Seal

THE FEDERAL INSURANCE COMPANY

By: Ken Cole
Seal

Ken Cole
Attorney-in-Fact

AFFIDAVIT

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

NOEL R. BURKE, of lawful age, being first duly sworn on his oath, deposes and says:

THAT he is employed by The Anschutz Corporation in its Denver, Colorado Regional Office as Regional Land Manager, Rocky Mountain Region; that he has personally met on June 10, 1983 with representatives of T. E. Moore Ranching Company for the purpose of negotiating the payment of surface damages for the access to, and drilling of the Moore Federal #14-22 well and for damages for operating and marketing of oil and gas from the surface of Lots 2, 3, 4, N/2NE/4, SW/4NE/4, NW/4, N/2SW/4, NW/4SE/4, of Section 22, Township 3 North, Range 7 East, Summit County, Utah and has made an offer of settlement of such damages in the form of Exhibit "A" attached hereto and by this reference made a part hereof;

THAT such offer of settlement is just and reasonable;

THAT other representatives of The Anschutz Corporation have repeatedly attempted with diligence and in good faith to settle all matters of surface damage with T. E. Moore Ranching Company and continue to do so to the date hereof;

THAT T. E. Moore Ranching Company has refused to agree to a settlement for such damages and continues at this time to refuse to any such settlement; and

THAT The Anschutz Corporation is the owner of rights to explore for, drill for, produce and market oil and gas from Lot 2, 3, 4, N/2NE/4, SW/4NE/4, NW/4, N/2SW/4, NW/4SE/4, of Section 22, Township 3 North, Range 7 East, Summit County, Utah pursuant to the terms of federal oil and gas lease number U-47812.

Noel R. Burke
Noel R. Burke

Subscribed and sworn to before me the 24th day of June, 1983.

William Sanders
NOTARY PUBLIC

My Commission Expires:

October 2, 1983

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT

EXHIBIT "A"
SURFACE DAMAGE AGREEMENT

THIS AGREEMENT, effective as of June 10, 1983, is by and between The Anschutz Corporation, a Kansas corporation, whose address is Suite 2400 Anaconda Tower, 555 Seventeenth Street, Denver, Colorado 80202, acting herein in its capacity as Operator of certain oil and gas leases covering the lands subject to the Agreement, hereinafter called "Operator", and T. E. Moore Ranching Company, whose address is Coalville, Utah 84017, hereinafter called "Grantor".

WITNESSETH THAT:

WHEREAS, Grantor has acquired an interest in the Surface of certain lands pursuant to the Act of December 29, 1916 (39 Stat 864; 43 U.S.C.299); and

WHEREAS, Operator is the owner of oil and gas leasehold rights to explore for, drill and remove oil and gas from such lands; and

WHEREAS, such lands in which Grantor and Operator own such interests are described as follows:

Township 3 North, Range 7 East SLM, Utah
Section 22: Lots 2, 3, 4, N/2NE/4
 SW/4NE/4, NW/4, N/2SW/4,
 NW/4SE/4

Summit County, Utah
(Such lands being hereinafter referred to as "Said Lands");

WHEREAS, Grantor and Operator desire to enter into an agreement providing for the payment of damages for the use of certain lands of Grantor in connection with operations for the drilling, production and marketing of oil and gas from Said Lands;

NOW, THEREFORE, in consideration of the mutual covenants and agreements of the parties hereinafter specified, the sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

I.

Grantor and Operator agree that Operator, or any party acting as an agent or representative of Operator and any person acting as an independent contractor pursuant to a contract with Operator, may enter upon and utilize the Said Lands in connection with the conduct of oil and gas exploration, drilling, development and marketing necessary for the development of the oil

and gas potential of Said Lands subject to the terms and conditions of this agreement. All such operations shall be conducted at the sole risk, cost and expense of Operator or such other parties in a good and workmanlike manner consistent with recognized industry procedure and in accordance herewith. The rights granted hereby and the operations conducted hereunder shall be subject to all prior leases, rights-of-way, easements, licenses and other instruments and agreements affecting the Said Lands. The execution of this agreement shall not amend, modify or revoke any such prior instruments or agreements relating to the Said Lands.

II.

Operator shall have the right to maintain, improve and use existing roads on the Said Lands as well as to construct, maintain and use new roads on the Said Lands on the following terms and conditions:

(a) Operator shall advise Grantor in reasonable detail of the location (widths, cuts, fills and bar ditches) of each new road which it proposes to construct on the Said Lands and shall not commence to construction of any new road without first obtaining Grantor's consent to such location, which consent shall not unreasonably be withheld.

(b) All vehicular traffic will be restricted to the roads permitted to be used or constructed by Operator hereunder.

(c) Operator shall construct and install such steel gates and cattle guards in all fences as may be necessary for the proper protection and handling of Grantor's livestock. Operator shall also install culverts necessary to protect the road beds and to control and divert water for irrigation and stock watering purposes.

(d) Operator shall maintain the roads, gates, cattle guards, bridges, culverts and any other facilities to be used or constructed by Operator pursuant to this agreement (the "Improvements") in a good and usable condition during the term of this agreement and, upon termination of use by Operator of any such Improvements, Operator shall do whatever is necessary to return the land upon which such Improvements are located to its original condition to the extent it can reasonably do so, provided that Operator shall notify Grantor in writing of any Improvements it intends to cease using and, if Grantor so requests within ten (10) days of receipt of such notice, any such Improvements shall be left in place in a good and usable condition and will thereupon

become the sole property of Grantor. The determination as to whether Operator has complied with the above obligation shall be determined by an inspection to be made by Grantor's Representative designated pursuant to Paragraph XIII hereof ("Grantor's Representative").

(e) Operator shall keep the roads and adjacent areas clean at all times and free of any trash, cans, papers, bottles or other debris resulting from Operator's operations hereunder.

(f) All gates will be kept closed at all times and when requested by Grantor will be kept locked or guards maintained to restrict unauthorized entry.

(g) It is agreed and understood that traffic may be delayed for short periods while Grantor is moving its livestock through the summer headquarters corral area during shipping times and Operator's traffic movement must be coordinated with Grantor's Representative so that such traffic movement will not interfere with Grantor's movement of its cattle.

(h) Operator shall use its best efforts to control the infestation of noxious weeds on the areas disturbed by the operations upon the Said Lands by timely spraying with acceptable control chemicals or other acceptable methods intended to prevent the infestation of adjacent lands. Operator shall further use its best efforts to periodically conduct such weed control activities to prevent the spread of the seeds of such noxious weeds from any areas of the Said Lands disturbed by Operator.

III.

Operator shall consult with Grantor's Representative with respect to the location of any uses by Operator on the Said Lands not described in Paragraph II hereof, including but not limited to drilling sites, reserve and mud pits, flow lines, injection lines, and disposal wells, prior to commencing any such use, and Operator shall have the right to such uses of the Said Lands upon the terms and conditions hereof, taking into account Grantor's concerns and needs. At the risk, cost and expense of Operator, all drilling sites, including reserve and mud pits, shall be reclaimed and restored as nearly as possible to their original condition and successfully reseeded with native grasses after completion or abandonment of any wells drilled. All flow lines and injection lines shall be buried below the surface of the land to the depth sufficient to avoid interference with Grantor's cattle operations.

IV.

No guns, firearms, alcoholic beverages, drugs, dogs, trail bikes, motorcycles, snowmobiles or recreational vehicles shall be permitted on the Said Lands and Operator, its agents, representatives and employees shall not hunt, fish, trap or conduct any recreational activities on any part of Grantor's lands nor shall such lands be used for any purposes other than those expressly provided for herein without the prior written approval of Grantor. Additionally, Operator shall not unnecessarily disturb the livestock on the Said Lands.

V.

No water will be used from streams or ponds on Grantor's lands without first obtaining permission from Grantor's Representative. If Operator shall initiate or establish any water right on the Said Lands, such right shall become appurtenant to the Said Lands and upon termination of this agreement Operator shall, to the extent it may legally do so, convey such water right to Grantor. Operator shall notify Grantor of any well it wishes to abandon and, if Grantor so elects within ten (10) days of receipt of such notice, shall plug back such well to a water-bearing stratum at its expense and turn over such well to Grantor upon its paying to Operator the salvage value thereof to the depth plugged back. Operator shall plug back any such well in accordance with the applicable state regulations but Grantor shall assume all liability which might thereafter arise by reason of Grantor's use of such well.

VI.

Operator shall not remove any gravel from the Said Lands and shall cut and stack as firewood any timber felled in the course of its operations hereunder, disposing of all slash.

VII.

Operator shall pay all taxes and assessments that may be levied against the buildings, equipment, supplies and fixtures necessary for the improvements placed on the Said Lands by Operator.

VIII.

Operator shall pay to Grantor the sum of \$10.00 per rod for each road used or constructed on the Said Lands. Additionally, Operator shall pay to Grantor the sum of \$5,000.00 for each standard wellsite location, such payments to be compensation for use of and damage to the surface of the lands

used for such purposes. If Operator shall be required to construct any flow lines or injection lines in connection with its operations on the Said Lands, it shall pay to Grantor the sum of \$10.00 per rod as compensation for use of any damage to the surface of the lands on which the flow lines or injection lines are constructed. Payment for any other use by Operator not enumerated in this Paragraph VIII shall be on a fair and reasonable basis to be negotiated by the parties for each such use. All payments described in this Paragraph VIII shall be subject to escalation in proportion to the percentage increase in the Consumer Price Index or its successor indicator from the date of this agreement.

IX.

If, in connection with oil and gas operations, Operator determines that it is necessary to construct a plant, tank batteries or other facilities of like kind on the Said Lands, it shall consult with Grantor's Representative prior to commencing operations for the construction of such facilities and the parties shall attempt to mutually agree upon the location of such facilities and shall take into account Grantor's concerns and needs. As consideration for a surface lease covering the land on which such facilities are constructed, Operator shall pay to Grantor the sum of \$300.00 per acre per year for each acre of land utilized in the construction of such facilities. Such amount shall be subject to escalation in the same manner as provided in Paragraph VIII above.

X.

Operator, for itself and its contractors, subcontractors, agents, employees, representatives, successors and assigns, does hereby release and agree to defend and hold harmless Grantor from any claim for damage to any person or property arising out of Operator's use of and/or Operator's operations on and over Said Lands.

XI.

Grantor shall have the right to use any roads constructed or improved by Operator hereunder for any reasonable purpose and without cost. Notwithstanding the foregoing, Grantor specifically recognizes that, although Operator must coordinate its operations with Grantor's Representative in an effort to minimize the inconvenience to Grantor's ranching operations which might result from Operator's operations hereunder, nonetheless the rights of

Operator hereunder shall, except as otherwise provided in Paragraph II(g) above, be paramount of those of Grantor with respect to oil and gas operations conducted on the Subject Lands in accordance with this agreement. Operator shall be deemed to have complied with its obligation hereunder if it shall consult with Grantor's Representative as required hereunder prior to commencing any of the operations for which such consultation is required and if it makes a good faith effort to accommodate the needs of Grantor with respect to their livestock operations notwithstanding the fact that the operations as ultimately conducted by Operator might conflict with Grantor's use of the lands subject to this agreement. Nothing in this Paragraph XI shall be construed to limit, waive or restrict Operator's obligation to make any payments required hereunder or Grantor's right to enforce the remedies provided for herein for breach of any of the terms and conditions of this agreement by Operator.

XII.

This agreement shall remain in effect for a period of ten years from the effective date hereof and for so long thereafter as Operator or any party who is a successor to Operator under the terms of the oil and gas leases on the Said Lands shall conduct any operations on the surface of the lands covered by this agreement, subject to the timely payment of any monies due Grantor as herein provided and to compliance with the terms and conditions hereof. If at any time Grantor is of the opinion that Operator or any of its agents, representatives or contractors have breached any obligation imposed on it under this agreement, they shall notify Operator in writing setting out the facts relied upon by Grantor as constituting Operator's breach hereof. To the extent reasonably possible, Operator will immediately bring its operations into compliance, Operator shall not be considered to be in default of its obligation to eliminate or repair such breach if Operator promptly upon its receipt of such notice initiates corrective action and eliminates or remedies such breach within thirty (30) days of receipt of Grantor's notice or, if the breach is of a nature that cannot reasonably be cured within such thirty (30) day period, promptly upon its receipt of such notice initiates curative action and thereafter diligently pursues all reasonable efforts to effect such cure. Operator further agrees to immediately repair or pay Grantor for any damages caused to crops, timber, livestock, fences or other improvements owned

or used by Grantor that result from operations hereunder and are not included in the uses for which specific payment is provided for herein, and shall reimburse Grantor for any expenses incurred by Grantor to effect any repairs, removal of debris or other obligations of Operator not fulfilled by Operator.

XIII.

Any notices required to be given in writing hereunder shall be deemed sufficiently given or served when presented personally or upon delivery when sent by first class mail, postage prepaid, to any party hereto at its address first set forth above (with notices to Operator directed to Vice President of Land, The Anschutz Corporation, at the address set forth above) or at such other address as any party may subsequently designate in writing. All references to Grantor's Representative shall refer to _____

_____ until a successor representative is designated in writing to Operator.

XIV.

This agreement shall be governed by and construed in accordance with the laws of the State of Utah.

XV.

This agreement may not be modified except by an instrument in writing signed by all the parties hereto.

IN WITNESS WHEREOF, this agreement is executed this _____ day of _____, 1983, effective as of _____, 1983.

THE ANSCHUTZ CORPORATION

BY _____
Executive Vice President

STATE OF UTAH)
COUNTY OF SUMMIT) ss.

Before me, the undersigned authority, on this day personally appeared MILES A. WILLIAMS, Executive Vice President of THE ANSCHUTZ CORPORATION, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed and in the capacity therein stated as the act and deed of said corporation.

Given under my hand and seal of office, this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires: _____

STATE OF UTAH)
COUNTY OF SUMMIT) ss.

The foregoing instrument was acknowledged before me this _____ day of _____, 1983 by _____, on behalf of _____ a _____ corporation.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires: _____

STATE OF UTAH)
COUNTY OF SUMMIT) ss.

On this _____ day of _____, 1983, before me, personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires: _____

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

On this _____ day of _____, 1983, before me, personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

On this _____ day of _____, 1983, before me, personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

AFFIDAVIT

STATE OF COLORADO)
) ss.
COUNTY OF DENVER)

WILLIAM J. MILLER, of lawful age, being first duly sworn on his oath, deposes and says:

THAT he is employed by The Anschutz Corporation in its Denver, Colorado Regional Office as Operations Coordinator, Rocky Mountain Region; that he has personally met on July 12, 1983 with representatives of T. E. Moore Ranching Company for the purpose of negotiating the payment of surface damages for the access to, and drilling of the Moore Federal #14-22 well and for damages for operating and marketing of oil and gas from the surface of Lots 2, 3, 4, N/2NE/4, SW/4NE/4, NW/4, N/2SW/4, NW/4SE/4, of Section 22, Township 3 North, Range 7 East, Summit County, Utah and has made an offer of settlement of such damages in the form of Exhibit "A" attached hereto and by this reference made a part hereof;

THAT such offer of settlement is just and reasonable;

THAT other representatives of The Anschutz Corporation have repeatedly attempted with diligence and in good faith to settle all matters of surface damage with T. E. Moore Ranching Company and continue to do so to the date hereof;

THAT T. E. Moore Ranching Company has refused to agree to a settlement for such damages and continues at this time to refuse to any such settlement; and

THAT The Anschutz Corporation is the owner of rights to explore for, drill for, produce and market oil and gas from Lot 2, 3, 4, N/2NE/4, SW/4NE/4, NW/4, N/2SW/4, NW/4SE/4, of Section 22, Township 3 North, Range 7 East, Summit County, Utah pursuant to the terms of federal oil and gas lease number U-47812.

William J. Miller
William J. Miller

Subscribed and sworn to before me the 18th day of July, 1983.

Mary Ann Adlers
NOTARY PUBLIC

My Commission Expires:

July 20, 1986



STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

EXHIBIT "A"
SURFACE DAMAGE AGREEMENT

THIS AGREEMENT, effective as of July 12, 1983, is by and between The Anschutz Corporation, a Kansas corporation, whose address is Suite 2400 Anaconda Tower, 555 Seventeenth Street, Denver, Colorado 80202, acting herein in its capacity as Operator of certain oil and gas leases covering the lands subject to the Agreement, hereinafter called "Operator", and T. E. Moore Ranching Company, whose address is Coalville, Utah 84017, hereinafter called "Grantor".

WITNESSETH THAT:

WHEREAS, Grantor has acquired an interest in the Surface of certain lands pursuant to the Act of December 29, 1916 (39 Stat 864; 43 U.S.C.299); and

WHEREAS, Operator is the owner of oil and gas leasehold rights to explore for, drill and remove oil and gas from such lands; and

WHEREAS, such lands in which Grantor and Operator own such interests are described as follows:

Township 3 North, Range 7 East SLM, Utah
Section 22: Lots 2, 3, 4, N/2NE/4
 SW/4NE/4, NW/4, N/2SW/4,
 NW/4SE/4

Summit County, Utah
(Such lands being hereinafter referred to as "Said Lands");

WHEREAS, Grantor and Operator desire to enter into an agreement providing for the payment of damages for the use of certain lands of Grantor in connection with operations for the drilling, production and marketing of oil and gas from Said Lands;

NOW, THEREFORE, in consideration of the mutual covenants and agreements of the parties hereinafter specified, the sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

I.

Grantor and Operator agree that Operator, or any party acting as an agent or representative of Operator and any person acting as an independent contractor pursuant to a contract with Operator, may enter upon and utilize the Said Lands in connection with the conduct of oil and gas exploration, drilling, development and marketing necessary for the development of the oil

and gas potential of Said Lands subject to the terms and conditions of this agreement. All such operations shall be conducted at the sole risk, cost and expense of Operator or such other parties in a good and workmanlike manner consistent with recognized industry procedure and in accordance herewith. The rights granted hereby and the operations conducted hereunder shall be subject to all prior leases, rights-of-way, easements, licenses and other instruments and agreements affecting the Said Lands. The execution of this agreement shall not amend, modify or revoke any such prior instruments or agreements relating to the Said Lands.

II.

Operator shall have the right to maintain, improve and use existing roads on the Said Lands as well as to construct, maintain and use new roads on the Said Lands on the following terms and conditions:

(a) Operator shall advise Grantor in reasonable detail of the location (widths, cuts, fills and bar ditches) of each new road which it proposes to construct on the Said Lands and shall not commence to construction of any new road without first obtaining Grantor's consent to such location, which consent shall not unreasonably be withheld.

(b) All vehicular traffic will be restricted to the roads permitted to be used or constructed by Operator hereunder.

(c) Operator shall construct and install such steel gates and cattle guards in all fences as may be necessary for the proper protection and handling of Grantor's livestock. Operator shall also install culverts necessary to protect the road beds and to control and divert water for irrigation and stock watering purposes.

(d) Operator shall maintain the roads, gates, cattle guards, bridges, culverts and any other facilities to be used or constructed by Operator pursuant to this agreement (the "Improvements") in a good and usable condition during the term of this agreement and, upon termination of use by Operator of any such Improvements, Operator shall do whatever is necessary to return the land upon which such Improvements are located to its original condition to the extent it can reasonably do so, provided that Operator shall notify Grantor in writing of any Improvements it intends to cease using and, if Grantor so requests within ten (10) days of receipt of such notice, any such Improvements shall be left in place in a good and usable condition and will thereupon

become the sole property of Grantor. The determination as to whether Operator has complied with the above obligation shall be determined by an inspection to be made by Grantor's Representative designated pursuant to Paragraph XIII hereof ("Grantor's Representative").

(e) Operator shall keep the roads and adjacent areas clean at all times and free of any trash, cans, papers, bottles or other debris resulting from Operator's operations hereunder.

(f) All gates will be kept closed at all times and when requested by Grantor will be kept locked or guards maintained to restrict unauthorized entry.

(g) Operator shall use its best efforts to control the infestation of noxious weeds on the areas disturbed by the operations upon the Said Lands by timely spraying with acceptable control chemicals or other acceptable methods intended to prevent the infestation of adjacent lands. Operator shall further use its best efforts to periodically conduct such weed control activities to prevent the spread of the seeds of such noxious weeds from any areas of the Said Lands disturbed by Operator.

III.

Operator shall consult with Grantor's Representative with respect to the location of any uses by Operator on the Said Lands not described hereinabove, including, but not limited to drilling sites, reserve and mud pits, flow lines, injection lines, and disposal wells, prior to commencing any such use, and Operator shall have the right to such uses of the Said Lands upon the terms and conditions hereof, taking into account Grantor's concerns and needs. At the risk, cost and expense of Operator, all drilling sites, including reserve and mud pits, shall be reclaimed and restored as nearly as possible to their original condition and successfully reseeded with native grasses after completion or abandonment of any wells drilled. All flow lines and injection lines shall be buried below the surface of the land to the depth sufficient to avoid interference with Grantor's cattle operations.

IV.

No guns, firearms, alcoholic beverages, drugs, dogs, trail bikes, motorcycles, snowmobiles or recreational vehicles shall be permitted on the Said Lands and Operator, its agents, representatives and employees shall not hunt, fish, trap or conduct any recreational activities on any part of

Grantor's lands nor shall such lands be used for any purposes other than those expressly provided for herein without the prior written approval of Grantor. Additionally, Operator shall not unnecessarily disturb the livestock on the Said Lands.

V.

No water will be used from streams or ponds on Grantor's lands without first obtaining permission from Grantor's Representative. If Operator shall initiate or establish any water right on the Said Lands, such right shall become appurtenant to the Said Lands and upon termination of this agreement Operator shall, to the extent it may legally do so, convey such water right to Grantor. Operator shall notify Grantor of any well it wishes to abandon and, if Grantor so elects within ten (10) days of receipt of such notice, shall plug back such well to a water-bearing stratum at its expense and turn over such well to Grantor upon its paying to Operator the salvage value thereof to the depth plugged back. Operator shall plug back any such well in accordance with the applicable state regulations but Grantor shall assume all liability which might thereafter arise by reason of Grantor's use of such well.

VI.

Operator shall not remove any gravel from the Said Lands and shall cut and stack as firewood any timber felled in the course of its operations hereunder, disposing of all slash.

VII.

Operator shall pay all taxes and assessments that may be levied against the buildings, equipment, supplies and fixtures necessary for the improvements placed on the Said Lands by Operator.

VIII.

Operator shall pay to Grantor the sum of \$10.00 per rod for each road used or constructed on the Said Lands. Additionally, Operator shall pay to Grantor the sum of \$10,000.00 for each standard wellsite location, such payments to be compensation for use of and damage to the surface of the lands used for such purposes. If Operator shall be required to construct any flow lines or injection lines in connection with its operations on the Said Lands, it shall pay to Grantor the sum of \$10.00 per rod as compensation for use of any damage to the surface of the lands on which the flow lines or injection lines are constructed. Payment for any other use by Operator not enumerated

in this Paragraph VIII shall be on a fair and reasonable basis to be negotiated by the parties for each such use. All payments described in this Paragraph VIII shall be subject to escalation in proportion to the percentage increase in the Consumer Price Index or its successor indicator from the date of this agreement.

IX.

If, in connection with oil and gas operations, Operator determines that it is necessary to construct a plant, tank batteries or other facilities of like kind on the Said Lands, it shall consult with Grantor's Representative prior to commencing operations for the construction of such facilities and the parties shall attempt to mutually agree upon the location of such facilities and shall take into account Grantor's concerns and needs. As consideration for a surface lease covering the land on which such facilities are constructed, Operator shall pay to Grantor the sum of \$300.00 per acre per year for each acre of land utilized in the construction of such facilities. Such amount shall be subject to escalation in the same manner as provided in Paragraph VIII above.

X.

Operator, for itself and its contractors, subcontractors, agents, employees, representatives, successors and assigns, does hereby release and agree to defend and hold harmless Grantor from any claim for damage to any person or property arising out of Operator's use of and/or Operator's operations on and over Said Lands.

XI.

Grantor shall have the right to use any roads constructed or improved by Operator hereunder for any reasonable purpose and without cost. Notwithstanding the foregoing, Grantor specifically recognizes that, although Operator must coordinate its operations with Grantor's Representative in an effort to minimize the inconvenience to Grantor's ranching operations which might result from Operator's operations hereunder, nonetheless the rights of Operator hereunder shall, except as otherwise provided in Paragraph II(g) above, be paramount of those of Grantor with respect to oil and gas operations conducted on the Subject Lands in accordance with this agreement. Operator shall be deemed to have complied with its obligation hereunder if it shall consult with Grantor's Representative as required hereunder prior to

commencing any of the operations for which such consultation is required and if it makes a good faith effort to accommodate the needs of Grantor with respect to their livestock operations notwithstanding the fact that the operations as ultimately conducted by Operator might conflict with Grantor's use of the lands subject to this agreement. Nothing in this Paragraph XI shall be construed to limit, waive or restrict Operator's obligation to make any payments required hereunder or Grantor's right to enforce the remedies provided for herein for breach of any of the terms and conditions of this agreement by Operator.

XII.

This agreement shall remain in effect for a period of ten years from the effective date hereof and for so long thereafter as Operator or any party who is a successor to Operator under the terms of the oil and gas leases on the Said Lands shall conduct any operations on the surface of the lands covered by this agreement, subject to the timely payment of any monies due Grantor as herein provided and to compliance with the terms and conditions hereof. If at any time Grantor is of the opinion that Operator or any of its agents, representatives or contractors have breached any obligation imposed on it under this agreement, they shall notify Operator in writing setting out the facts relied upon by Grantor as constituting Operator's breach hereof. To the extent reasonably possible, Operator will immediately bring its operations into compliance, Operator shall not be considered to be in default of its obligation to eliminate or repair such breach if Operator promptly upon its receipt of such notice initiates corrective action and eliminates or remedies such breach within thirty (30) days of receipt of Grantor's notice or, if the breach is of a nature that cannot reasonably be cured within such thirty (30) day period, promptly upon its receipt of such notice initiates curative action and thereafter diligently pursues all reasonable efforts to effect such cure. Operator further agrees to immediately repair or pay Grantor for any damages caused to crops, timber, livestock, fences or other improvements owned or used by Grantor that result from operations hereunder and are not included in the uses for which specific payment is provided for herein, and shall reimburse Grantor for any expenses incurred by Grantor to effect any repairs, removal of debris or other obligations of Operator not fulfilled by Operator.

XIII.

Any notices required to be given in writing hereunder shall be deemed sufficiently given or served when presented personally or upon delivery when sent by first class mail, postage prepaid, to any party hereto at its address first set forth above (with notices to Operator directed to Vice President of Land, The Anschutz Corporation, at the address set forth above) or at such other address as any party may subsequently designate in writing. All references to Grantor's Representative shall refer to _____

_____ until a successor representative is designated in writing to Operator.

XIV.

This agreement shall be governed by and construed in accordance with the laws of the State of Utah.

XV.

This agreement may not be modified except by an instrument in writing signed by all the parties hereto.

IN WITNESS WHEREOF, this agreement is executed this _____ day of _____, 1983, effective as of _____, 1983.

THE ANSCHUTZ CORPORATION

BY _____
Executive Vice President

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

Before me, the undersigned authority, on this day personally appeared MILES A. WILLIAMS, Executive Vice President of THE ANSCHUTZ CORPORATION, known to me to be the person and officer whose name is subscribed to the foregoing instrument, and acknowledged to me that he executed the same for the purposes and consideration therein expressed and in the capacity therein stated as the act and deed of said corporation.

Given under my hand and seal of office, this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

The foregoing instrument was acknowledged before me this _____ day of _____, 1983 by _____, on behalf of _____ a _____ corporation.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

On this _____ day of _____, 1983, before me, personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

On this _____ day of _____, 1983, before me, personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

STATE OF UTAH)
) ss.
COUNTY OF SUMMIT)

On this _____ day of _____, 1983, before me, personally appeared _____, to me known to be the person described in and who executed the foregoing instrument, and acknowledged to me that he executed the same as his free act and deed.

Given under my hand and official seal this _____ day of _____, 1983.

NOTARY PUBLIC

My Commission Expires:

OPERATOR THE ANSCHUTZ CORP DATE 7-20-83

WELL NAME MPORE FED 14-22

SEC SESW 22 T 3N R 7E COUNTY SUMMIT

43-043-30237
API NUMBER

FED
TYPE OF LEASE

POSTING CHECK OFF:

INDEX

MAP

HL

NID

PI

PROCESSING COMMENTS:

no oil wells within 1000'
water application has been filed

CHIEF PETROLEUM ENGINEER REVIEW:

7/21/83 ✓

APPROVAL LETTER:

SPACING: A-3 _____ UNIT

c-3-a _____ CAUSE NO. & DATE

c-3-b

c-3-c

SPECIAL LANGUAGE:

(WATER)

RECONCILE WELL NAME AND LOCATION ON APD AGAINST SAME DATA ON PLAT MAP.

AUTHENTICATE LEASE AND OPERATOR INFORMATION

VERIFY ADEQUATE AND PROPER BONDING *FED*

AUTHENTICATE IF SITE IS IN A NAMED FIELD, ETC.

APPLY SPACING CONSIDERATION

ORDER NO

UNIT NO

c-3-b

c-3-c

CHECK DISTANCE TO NEAREST WELL.

CHECK OUTSTANDING OR OVERDUE REPORTS FOR OPERATOR'S OTHER WELLS.

IF POTASH DESIGNATED AREA, SPECIAL LANGUAGE ON APPROVAL LETTER

IF IN OIL SHALE DESIGNATED AREA, SPECIAL APPROVAL LANGUAGE.

July 20, 1983

The Anschutz Corporation
555 - 17th Street, Suite 2400
Denver, Colorado 80202

RE: Well No. Moore Federal 14-22
SESW Sec. 22, T.3N, R.7E
666' FSL, 1931 FWL
Summit County, Utah

Gentlemen:

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3(b), General Rules and Regulations and Rules of Practice and Procedure. Prior to spudding, a copy of the Utah Division of Water Rights (801-533-6071) approval for use or purchase of drilling water must be submitted to this office, otherwise this approval is void.

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

RONALD J. FIRTH - Chief Petroleum Engineer
Office: 533-5771
Home: 571-6068

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

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 43-043-30237.

Sincerely,



Norman C. Stout
Administrative Assistant

NCS/as
cc: Oil & Gas Operations
Encl.



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

July 21, 1983

State of Utah
Natural Resources and Energy
4241 State Office Building
Salt Lake City, Utah 84114

Re: Moore Federal 14-22
Application for Permit to Drill

Gentlemen:

Enclosed please find a copy of the cut and fill diagram
and the Temporary Change Application No. 83-35-19 for
water to accompany the referenced APD.

Sincerely,

William J. Miller
Operations Coordinator

WJM:me
Enclosures

RECEIVED
JUL 29 1983

**DIVISION OF
OIL, GAS & MINING**



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Water Rights

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dee C. Hansen, State Engineer

1636 West North Temple • Salt Lake City, UT 84116 • 801-533-6071

July 15, 1983

Anschutz Land and Livestock Co., Inc.
2400 Anaconda Tower, 555 Seventeenth Street
Denver, Colorado 80202

Re: Temporary Change Application
No. 83-35-19

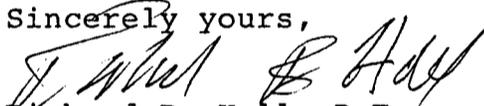
Gentlemen:

The above numbered Temporary Change Application has been approved, subject to prior rights and the following conditions:

- 1) A totalizing meter shall be installed on the well to measure the water obtained and the meter shall be available for inspection by the River Commissioner at all times to regulate the change.
- 2) The acreage to be removed from production will be taken out of production as outlined in the application and the applicant will allow the Weber River Commissioner or representatives of the State Engineer access to the area to observe the reduced acreage

A copy of the Approved Temporary Change Application is herewith returned for your records and future reference.

Sincerely yours,


Richard B. Hall, P.E.
For Dee C. Hansen, P.E.
State Engineer

DCH/RBH/11

Enclosure

cc: Donald C. Norseth, Distribution Engineer
E. Blaine Johnson, River Commissioner
1615 East Shadow Valley Drive
Route 6, Box 892
Ogden, Utah 84403

RECEIVED

JUL 20 1983

DIVISION OF
OIL, GAS & MINING

Deputy State Engineer/Earl M. Staker Area Engineer/Richard B. Hall

an equal opportunity employer • please recycle paper

APPLICATION NO. 83-35-19
DISTRIBUTION SYSTEM

Application For Temporary Change of Point of Diversion, Place or Purpose of Use STATE OF UTAH

(To Be Filed in Duplicate)

Place _____ Date _____ 19__

For the purpose of obtaining permission to temporarily change the point of diversion, place or purpose of use
(Strike out written matter not needed)

of water, the right to the use of which was acquired by Weber River Decree No. 768
(Give No. of application, title and date of Decree and Award No.)
to that hereinafter described, application is hereby made to the State Engineer, based upon the following showing of
facts, submitted in accordance with the requirements of the Laws of Utah.

- The owner of right or application is Anschutz Land and Livestock Co., Inc.
- The name of the person making this application is Anschutz Land and Livestock Co., Inc.
- The post office address of the applicant is 2400 Anaconda Tower, 555 Seventeenth Street,
Denver, Colorado 80202

PAST USE OF WATER

- The flow of water which has been used in second feet is 1.92 high and .60 low
 - The quantity of water which has been used in acre feet is 144.3
 - The water has been used each year from May 1 to September 31 incl.
(Month) (Day) (Month) (Day)
 - The water has been stored each year from _____ to _____ incl.
(Month) (Day) (Month) (Day)
 - The direct source of supply is Huff Creek in Summit County.
 - The water has been diverted into Weaver No.s 1 & 2 ^{ditch}/_{canal} at a point located on Huff Creek
in Section 6, T3N, R7E and Section 12, T3N, R6E
 - The water involved has been used for the following purpose: Irrigation in Section 6, T3N,
R7E and Section 12, T3N, R6E, both SLBM
- Total 48.10 acres.

NOTE: If for irrigation, give legal subdivisions of land and total acreage which has been irrigated. If for other purposes, give place and purpose of use.

THE FOLLOWING TEMPORARY CHANGES ARE PROPOSED

- The flow of water to be changed in cubic feet per second is _____
- The quantity of water to be changed in acre-feet is 8
- The water will be diverted into the _____ ^{ditch}/_{canal} at a point located _____
(See explanatory)
- The change will be made from July 1, 19 83, to December 31, 19 83.
(Period must not exceed one year)
- The reasons for the change are to meet the needs of oil & gas exploration and
development.
- The water involved herein has heretofore been temporarily changed 0 years prior to this application.
(List years change has been made)
- The water involved is to be used for the following purpose: For industrial and other
miscellaneous beneficial uses associated with oil and gas exploration
and development. Total _____ acres.

NOTE: If for irrigation, give legal subdivisions of land to be irrigated. If for other purposes, give place and purpose of proposed use.

EXPLANATORY

(See attached explanatory page)

A filing fee in the sum of \$5.00 is submitted herewith. I agree to pay an additional fee for either investigating or advertising this change, or both, upon the request of the State Engineer.

Anschutz Land & Livestock Co Inc.
Miss Williams
Signature of Applicant

RULES AND REGULATIONS

(Read Carefully)

This application blank is to be used only for temporary change of point of diversion, place or nature of use for a definitely fixed period not to exceed one year. If a permanent change is desired, request proper application blanks from the State Engineer.

Application for temporary change must be filed in duplicate, accompanied by a filing fee of \$5.00. Where the water affected is under supervision of a Water Commissioner, appointed by the State Engineer, time will be saved if the Application is filed with the Commissioner, who will promptly investigate the proposed change and forward both copies with filing fee and his report to the State Engineer. Applications filed directly with the State Engineer will be mailed to the Water Commissioner for investigation and report. If there be no Water Commissioner on the source, the Application must be filed with the State Engineer.

When the State Engineer finds that the change will not impair the rights of others he will authorize the change to be made. If he shall find, either by his own investigation or otherwise, that the change sought might impair existing rights he shall give notice to persons whose rights might be affected and shall give them opportunity to be heard before acting upon the Application. Such notice shall be given five days before the hearing either by regular mail or by one publication in a newspaper. Before making an investigation or giving notice the State Engineer will require the applicant to deposit a sum of money sufficient to pay the expenses thereof.

Address all communications to:
State Engineer
State Capitol Building
Salt Lake City, Utah

STATE ENGINEER'S ENDORSEMENTS

(Not to be filled in by applicant)

Change Application No. 83-35-17 (River System)

- 1. Application received by Water Commissioner (Name of Commissioner)
Recommendation of Commissioner
2. 6-27-83 Application received over counter by mail in State Engineer's Office by A.N.
3. 6-27-83 Fee for filing application \$7.50, received by A.N.; Rec. No. 02961
4. Application returned, with letter, to for correction.
5. Corrected application resubmitted over counter by mail to State Engineer's Office.
6. Fee for investigation requested \$
7. Fee for investigation \$, received by; Rec. No.
8. Investigation made by; Recommendations:
9. Fee for giving notice requested \$
10. Fee for giving notice \$, received by; Rec. No.
11. Application approved for advertising by publication by mail
12. Notice published in
13. Notice of pending change application mailed to interested parties by as follows:
14. Change application protested by (Date Received and Name)
15. Hearing set for at
16. 7/15/83 Application recommended for rejection approval by R.S.
17. Change Application rejected approved and returned to

THIS APPLICATION IS APPROVED SUBJECT TO THE FOLLOWING CONDITIONS:

- 1.
2.
3.

[Signature]
For State Engineer

ATTACHMENT "A"

13. The water will be diverted from a well located 666.7 feet North and 1931 feet East of the Southwest Corner of Section 22, T3N, R7E, SLB&M.

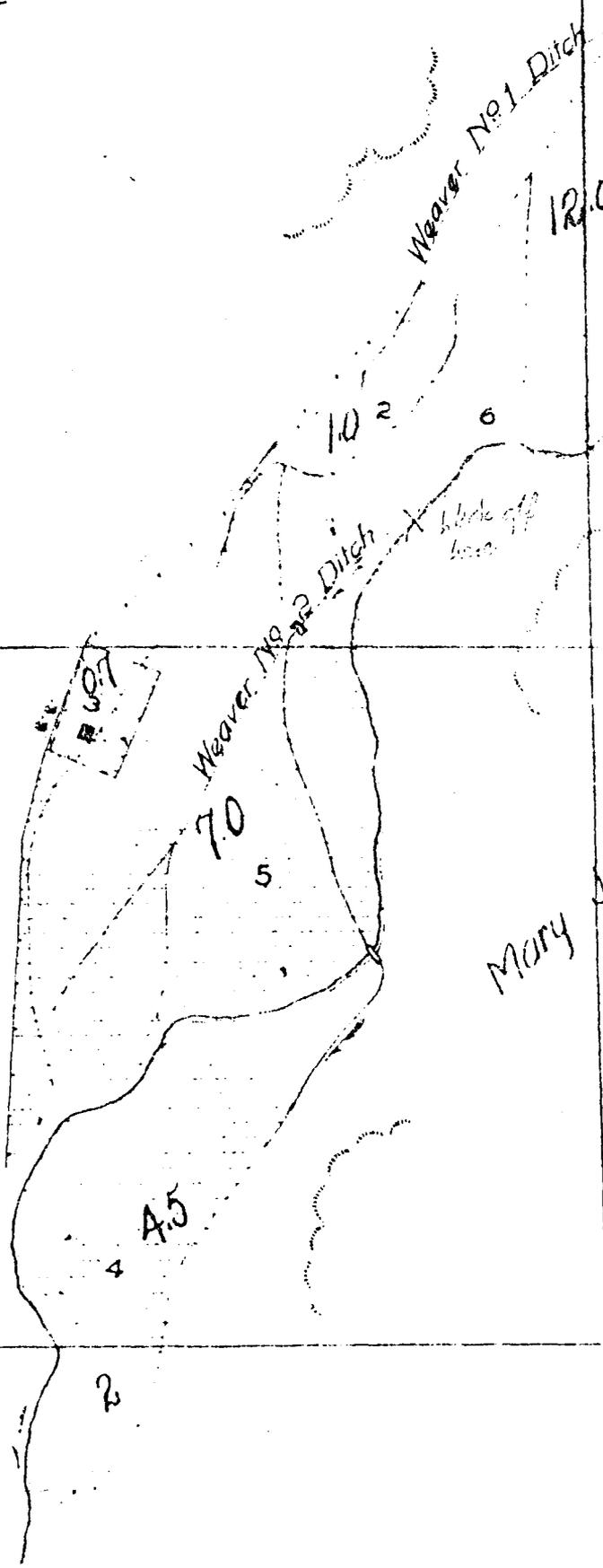
EXPLANATORY: The water sought to be changed is currently being used for irrigation of land adjacent to Huff Creek. Upon approval of this temporary change application, applicant intends to retire 6.4 acres of land located in the Southwest quarter of the Northeast quarter of Section 12, T3N, R6E from irrigation by blocking the Weaver No. 2 ditch at the headgate on Huff Creek (See attached map).

Applicant intends to drill a water well at the location described in paragraph 13 above and divert eight (8) acre feet for use in its oil and gas exploration and development activities in conformance with Utah law.

SEC.

sec 12 T3N R6E

Crow Stock Co
520.0 Ac.



Weaver No. 1 Ditch

120.0

HUFF CREEK

Weaver No. 2 Ditch

Side off base

7.0

5

4.5

4

2

Mary Jane Weaver
120.0

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

5. LEASE DESIGNATION AND SERIAL NO.
U-47812

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
SALT LAKE DISTRICT
Moore Ranching

9. WELL NO.
14-22

10. FIELD AND POOL, OR WILDCAT

11. SEC., T., R., M., OR BLEK. AND SURVEY OR AREA
Sec. 22, T3N, R7E, SLB&M

12. COUNTY OR PARISH | 13. STATE
Summit | Utah

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK
DRILL DEEPEN PLUG BACK

1b. TYPE OF WELL
OIL WELL GAS WELL OTHER SINGLE ZONE MULTIPLE ZONE

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
Suite 2400, 555-17th St., Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface SE 1/4 SW 1/4 - 1931 FWL & 666.7 FSL
At proposed prod. zone Same 666.7

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
Approx. 24 miles SW of Evanston, WY

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
666.7

16. NO. OF ACRES IN LEASE
519.32

17. NO. OF ACRES ASSIGNED TO THIS WELL
160

18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.
None

19. PROPOSED DEPTH
15,200

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
7998 GR

22. APPROX. DATE WORK WILL START*

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT

See attached resource protection plan, multi-point surface use and operations plan, surveyor's plat, etc.

AUG 12 1983

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 William J. Miller TITLE Operations Coordinator DATE July 15, 1983
(This space for Federal or State office use)

AUG - 9 1983

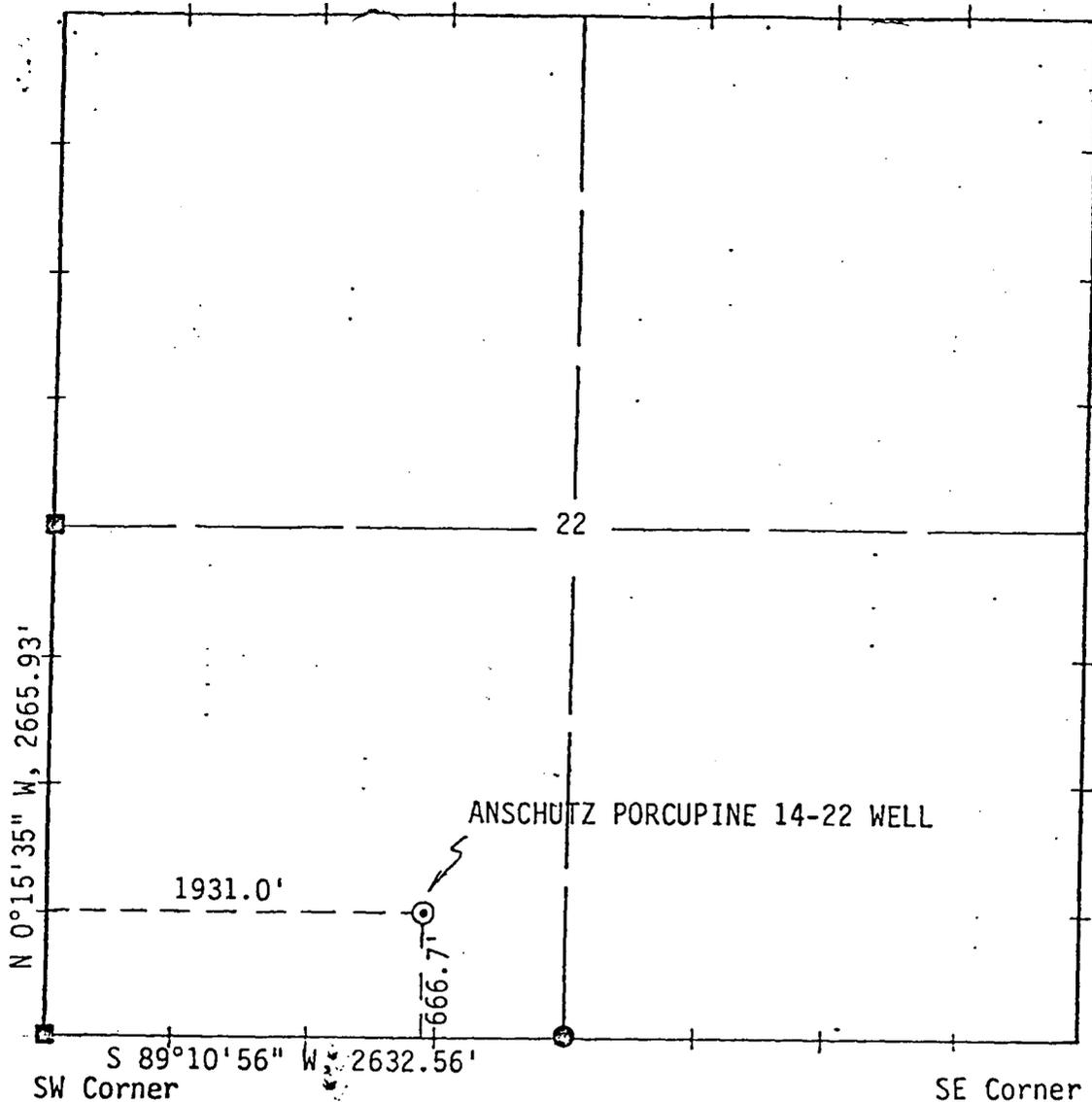
PERMIT NO. _____ APPROVAL DATE _____
APPROVED BY Frank W. Snell DISTRICT MANAGER DATE AUG 11 1983
CONDITIONS OF APPROVAL, IF ANY:

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

FLARING OR VENTING OF GAS IS SUBJECT TO NTL 4A DATED 1/1/80

State O & G

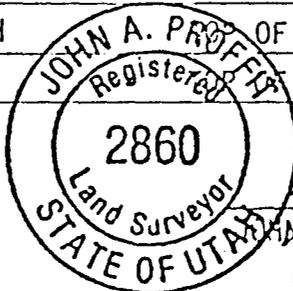


SCALE: 1" = 1000'

- Found Brass Cap
- Found Stone
- ⊙ Set Alum. Cap
- ⊖ Found Stone - Set Alum. Cap
- Hub and Tack
- △ Proportioned Corner

I, John A. Proffit of Evanston, Wyoming certify that in accordance with a request from Bill Cutler of Denver, Colorado for The Anschutz Corporation I made a survey on the 9th day of June, 1983 for Location and Elevation of the Anschutz Porcupine 14-22 Well as shown on the above map, the wellsite is in the SE $\frac{1}{4}$ SW $\frac{1}{4}$ of Section 22, Township 3N, Range 7E of the Salt Lake Base & Meridian Summit County, State of Utah, Elevation is 7998 Feet Top of Hub Datum Mean Sea Level Based on 3 Dimensional Control Network tied to U.S.G.S. & U.S.C.&G.S. Bench Marks

Reference point	300' NORTH	TOP OF PIN	ELEVATION 8012.2'
Reference point	300' WEST	TOP OF PIN	ELEVATION 8005.9'
Reference point	300' SOUTH	TOP OF PIN	ELEVATION 7982.8'
Reference point	300' EAST	TOP OF PIN	ELEVATION 7991.4'



John A. Proffit 6/14/83
 JOHN A. PROFFIT UTAH R.L.S. NO. 2860

Book 280

DATE: June 13, 1983
 JOB NO.: 83-19-5

UINTA ENGINEERING & SURVEYING, INC.
 808 MAIN STREET, EVANSTON, WYOMING

wtr OK
ef

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

NAME OF COMPANY: THE ANSCHUTZ CORP.

WELL NAME: MOORE RANCHING 14-22

SECTION SESW 22 TOWNSHIP 3N RANGE 7E COUNTY Summit

DRILLING CONTRACTOR Brinkerhoff Signal

RIG # 73

SPUDED: DATE 9-10-83

TIME _____

How Rotary

DRILLING WILL COMMENCE _____

REPORTED BY John McCarty

TELEPHONE # _____

DATE 9-12-83 SIGNED RJF

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TR CATE*
(Other instructions on re-verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-47812

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR The Anschutz Corporation		8. FARM OR LEASE NAME Moore Ranching	
3. ADDRESS OF OPERATOR 555-17th Street, Suite 2400, Denver, CO 80202		9. WELL NO. 14-22	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1931 FWL 66.7 FSL (SESW) Same		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22, T3N, R7E	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7998 GR		12. COUNTY OR PARISH Summit	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) Spud Report & Monthly Report <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.)*

Spud date: September 10, 1983 at 0010 hours

9/12/83: Drilling ahead at 390'

9/13/83: Ran 10 joints 20" K-55 buttress casing to 390', cemented with 1000 SX, class H.

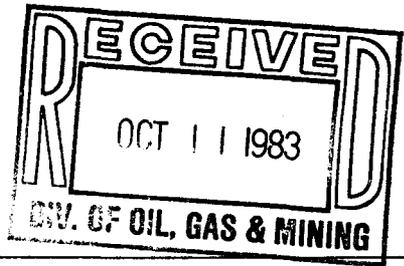
9/14/83: Finish cement 20" casing with 200SX, Class A, Cement to surface with 500 sacks Class G

9/19/83: Drilled to 1833', trip out for pump pressure loss.

9/21/83: Drilled to 2407', trip for bit, reamed 654-2407

9/27/83: Drilled to 4287', work tight hole.

9/30/83: Drilling ahead at 4598'.



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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE 10-4-83
W. Randall Miller

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

3
Form approved.
Budget Bureau No. 42-R142

5. LEASE DESIGNATION AND SERIAL NO.

U-47812

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Moore Ranch

9. WELL NO.

14-22

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., E., M., OR BLK. AND SURVEY OR AREA

Sec. 22, T43N, R7E

12. COUNTY OR PARISH 13. STATE

Summit

UTAH

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

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
555 17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1931 FWL, 66.7 FSL (SESW)

14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7998 Original Ground

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Monthly report (Drilling)</u> <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.)*

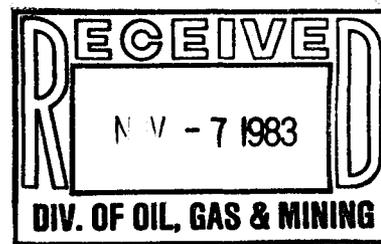
10/03/83: Drilling ahead at 5328'

10/10/83: Drilled to 6145', ran 104 joints 13 3/8" casing to 4279' cemented to surface with 2375 sacks Poz and 300 sacks Class "A" cement.

10/17/83: Drilling ahead at 6760'

10/24/83: Drilling ahead 7224'

10/31/83: Drilling ahead 7974'



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

SIGNED W. Randall Miller
W. Randall Miller

TITLE Operations Coordinator

DATE Nov. 1, 1983

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____



2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

December 2, 1983

Bureau of Land Management
Branch of Fluid Minerals
1745 West 1700 South
Room 2000
Salt Lake City, Utah 84104

Re: Moore Federal No. 14-22
Sec. 22 - T3N - R7E
Summit County, Utah

Gentlemen:

Enclosed, in triplicate, is Sundry Notice Form 9-331, submitted as monthly report of drilling activities for the above-referenced location.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller
Operations Coordinator

WRM:me
Enclosures

cc: State of Utah, Div. of Oil, Gas and Mining

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN THE ORIGINAL COPY
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-47812

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

MOORE RANCHING

9. WELL NO.

14-22

10. FIELD AND POOL, OR WILDCAT

WILDCAT

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

Sec. 22, T3N, R7E

12. COUNTY OR PARISH 13. STATE

SUMMIT

UT

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
THE ANSCHUTZ CORPORATION

3. ADDRESS OF OPERATOR
555 - 17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface
1931 FWL, 66.7 FSL (SE SW)

14. PERMIT NO.

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

7998 GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

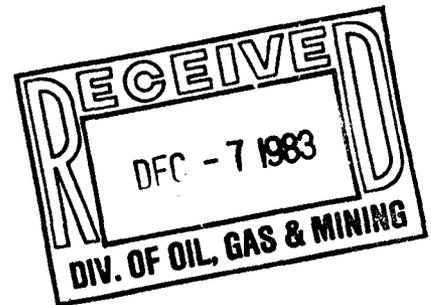
WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING
(Other)

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(Other) Monthly Report (Drilling)
(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.)*

- 11-01-83: Drill to 9017', ream 45' to bottom, drilling ahead.
- 11-08-83: Drill to 8858', trip for pressure loss, TIH, ream 75', drilling ahead.
- 11-15-83: Finish trip for bit, drilling ahead @ 9345'.
- 11-22-83: Drilling ahead @9937.
- 11-29-83: TOOH, 1 DC with pulled pin, TIH, ream 45' to bottom, drilling ahead @10,603'.



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

SIGNED

W. Randall Miller
W. RANDALL MILLER

TITLE

OPERATIONS COORDINATOR

DATE

1
DECEMBER 2, 1983

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:



2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED
JAN 09 1984

January 6, 1984

DIVISION OF
OIL, GAS & MINING

Bureau of Land Management
Branch of Fluid Minerals
1745 West 1700 South
Room. 200
Salt Lake City, Utah 84104

Re: Moore Federal #14-22, Sec. 22-43N-7E
Summit County, Utah

Gentlemen:

Enclosed, in triplicate, is Sundry Notice Form 9-331, as report of monthly drilling at the above-referenced location.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller

W. Randall Miller
Operations Coordinator

WRM:me
Enclosures

cc: State of Utah, Div. of Oil, Gas and Mining ✓

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN REPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.
U-47812

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moore Ranching

9. WELL NO.
14-22

10. FIELD AND POOL, OR WILDCAT
Wildcat

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

Sec. 22-T3N-R7E

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
555-17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface
1931 FWL 66.7 FSL (SESW)

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
7998 GR

12. COUNTY OR PARISH 13. STATE
Summit Utah

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF
FRACTURE TREAT
SHOOT OR ACIDIZE
REPAIR WELL
(Other)

PULL OR ALTER CASING
MULTIPLE COMPLETE
ABANDON*
CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF
FRACTURE TREATMENT
SHOOTING OR ACIDIZING

REPAIRING WELL
ALTERING CASING
ABANDONMENT*

(Other) Monthly Report (Drilling)

(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.)*

- 12-1-83: Drilling ahead at 10,854'
- 12-8-83: Drilling ahead at 11,471'
- 12-15-83: Drilled to 11,993', trip for bit, ream to bottom
- 12-22-83: Drilled to 12,380'. Trip out for hole in drill string
- 12-31-83: Rig repair, wash and reaming hole

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

SIGNED

W. Randall Miller
W. Randall Miller

TITLE

Operations Coordinator

DATE

Jan. 4, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 12/23/83
OIL CO.: Anschutz
WELL NAME & NUMBER..... Moore Fed 14-22
SECTION..... 22
TOWNSHIP..... 3N
RANGE..... 7E
COUNTY..... Summit Utah
DRILLING CONTRACTOR..... Brinkerhoff Signal (73)

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE..... John McCarty
RIG TOOL PUSHER..... be
TESTED OUT OF..... Evanston
NOTIFIED PRIOR TO TEST: State of Utah
COPIES OF THIS TEST REPORT SENT COPIES TO: Oil Co. Site Rep.
..... State of Utah

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON OFFICE

[Faint handwritten signature and stamp]

DIVISION OF
OIL, GAS & MINING

DOUBLE "D" TESTING

DELIVERY TICKET

P.O. Box 560
Shoshoni, Wyoming 82649
307-876-2308

Nº 1520

RENTED TO Auschutz NO. B.S. 73

DATE 12-23-83

ORDERED BY John McCarty LEASE Moore-Fed. WELL NO. 14-22

Rental begins when tools leave our warehouse and continues until returned thereto. Rental day starts at midnight and part day shall be charged as full day.

TRANSPORTATION - TO AND FROM JOBSITE 60 MILES \$1.00 per mile \$ 60.00

DOUBLE D Portable BLOWOUT PREVENTER PRESSURE TESTING SERVICE:
First eight hour test period 8 hr. min. \$ 800.00
Additional eight hours or fraction. \$ _____

Items Tested:

<u>Pipe</u> rams to <u>3000</u> #	Csg. to _____ #	Choke Manifold <u>3000</u> #
<u>Blind</u> rams to <u>3000</u> #	Hydril B O P to <u>1500</u> #	Kelly Cock <u>3000</u> #
_____ rams to _____ #	Choke Line <u>3000</u> #	Lower Kelly <u>3000</u> #
_____ rams to _____ #	_____ #	_____ #

TEST SUBS _____ \$ _____

OTHER 12" WKM TEST Plug \$ 150.00

1- 4 1/2 IF TO 4 1/2 IF TEST SUB \$ 50.00

25 gallons methonal @ \$2.00 per gallon \$ 150.00

All tests held (30 min.)

Choke line + manifold filled with 60 d° solution of methonal + water (40%)

Accumulator pressure good - closing time 5 sec

Closed casinghead valve following test

Bit RETRIEVABLE wearbushing

Sub Total \$ 720.00

We Appreciate Your Business Auschutz

TOTAL \$ _____

TERMS NET CASH - NO DISCOUNT. (PRICES SUBJECT TO CHANGE WITHOUT NOTICE): Terms and Conditions Under Which Tools and Other Equipment Are Rented: Lessor exercises precautions to keep its tools and other equipment in good condition, but does not guarantee its condition. All tools and other equipment rented from Lessor is used at Lessee's sole risk. Lessee agrees that Lessor shall not be liable for any damages for personal injuries to any persons or for any damage to Lessor's property or the property of other persons that may be caused by any of such tools or other equipment, or that may be caused by its failure during use, and Lessee hereby agrees to hold harmless and indemnify Lessor against all persons for all personal injuries and/or property damage. Well conditions which prevent satisfactory operation of equipment do not relieve Lessee of his responsibility for rental charges. Lessee assumes all responsibility for equipment while out of possession of the Lessor and promises to return such equipment to the Lessor in as good condition as it was at the effective date of the lease, natural wear and tear from reasonable use thereof excepted. All equipment lost or damaged beyond repair will be paid for by the Lessee at the market price and all damaged equipment which can be repaired will be repaired and the repairs paid for by the Lessee. Accrued rental charges cannot be applied against the purchase price or cost of repairs of such damaged or lost equipment. All transportation charges must be borne by the Lessee. Rental begins when equipment leaves Lessor's yard and continues until returned thereto. ALL TOOLS AND EQUIPMENT SHALL REMAIN the sole property of Lessor. This lease is made and shall be effective when the equipment is delivered to the carrier selected by the Lessee.

TERMS: Net Cash - No Discount. All charges are due and payable at the office of Lessor in Shoshoni, Wyoming on the 20th of the month following date of invoice. Interest will be charged at the rate of 8%. Interest charged after 60 days from date of invoice.

Delivered By:

OWNER OR OWNER'S REPRESENTATIVE

MARTIN VASKO

By: John McCarty

Time Explanation TESTS Explanation

ANSCHUTZ - B.S. 73 - MOORE - Fed 14-22 3000-1500 p.s.i.
STACK TESTS HELD 30 min - MANIFOLD TESTS 15 min.

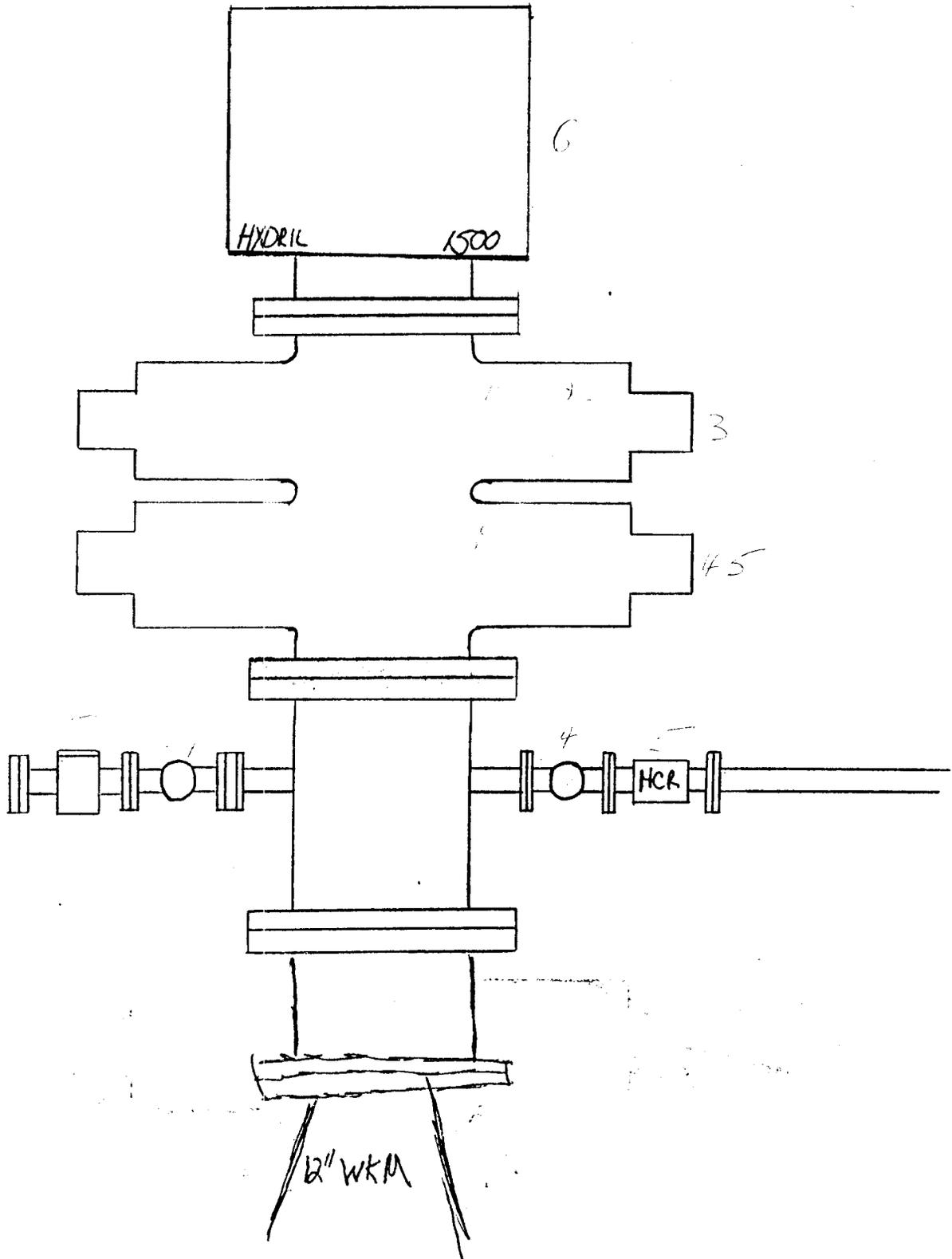
- 11:30-12:05 @ Outside manuals - manifold @ 3000 p.s.i.
- 12:05-12:30 @ Inside manuals - manifold @ 3000 p.s.i.
- 12:30-1:30 Trip out collars - Bit - rig up to TEST - telly + stick same time
- 1:30-2:05 @ Blinds inside manual on kill line. - (rigging up telly too)
- 2:15-2:45 @ Pipe rams - base telly - inside MANUALS
- 50-55 @ " " " " upper telly - H.C.R. - CHECK VALUE
- 3:30-4:00 @ Hydril @ 1500 p.s.i. RISER VALVE ON MANIFOLD

Rig Down = fill CHOKE LINE + manifold with METHANAL

Anschutz Corp

BS 73 - 12/23/83

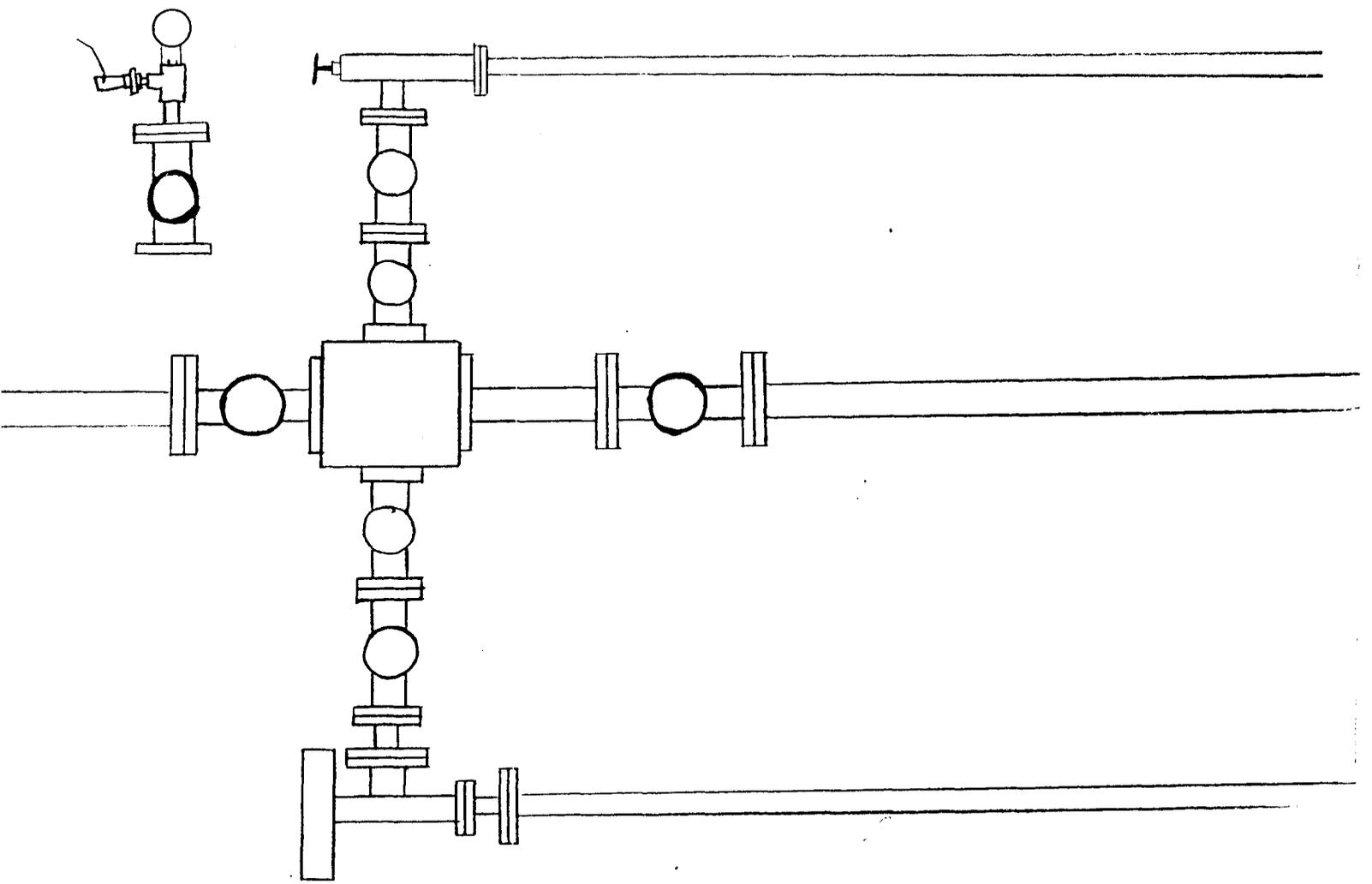
3000-1500 psi - 30 min

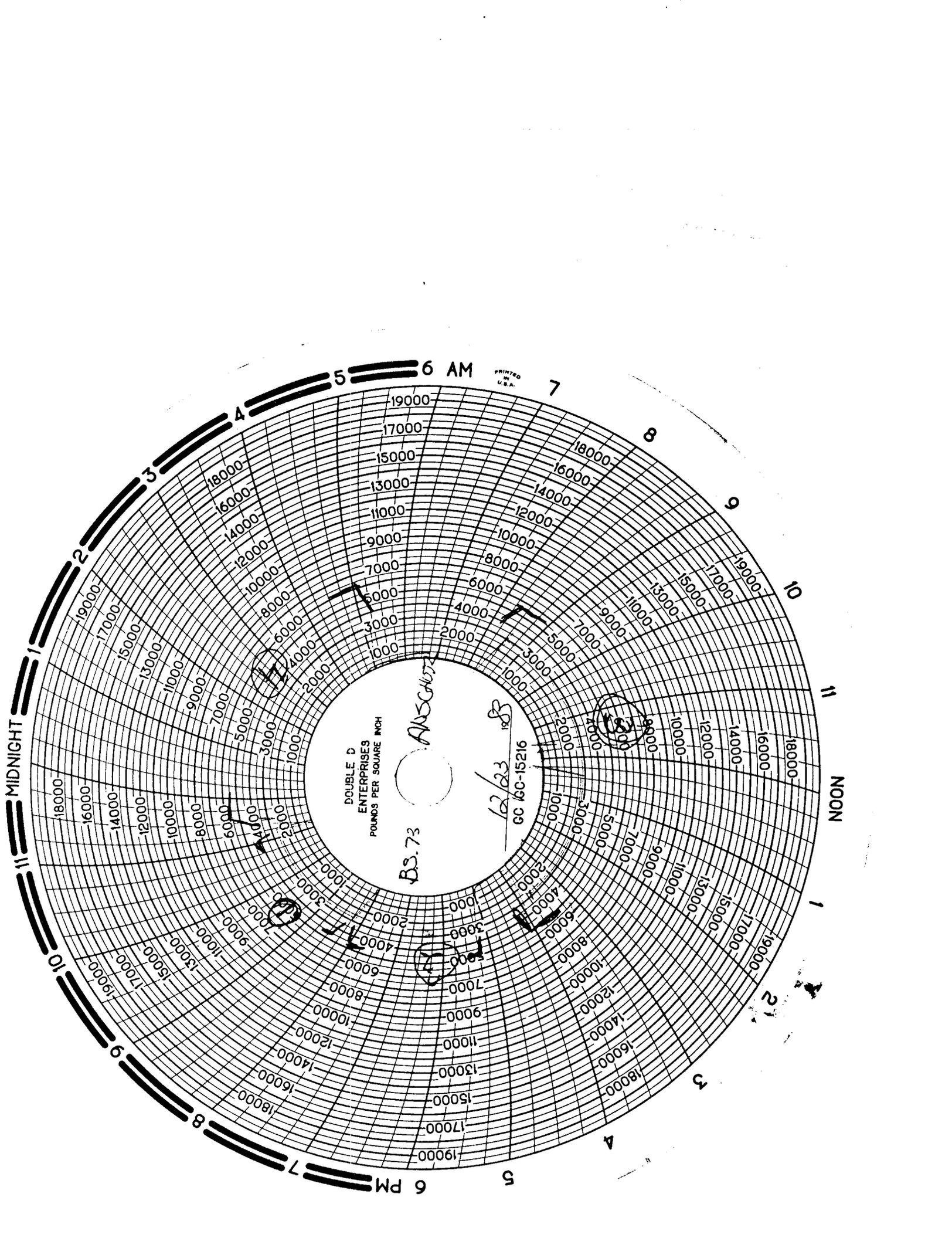


Auschutz Corp

BS. 73 - 12/23/83

3000 PSI - 15 min.





PRINTED
IN
U.S.A.

DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH

BS. 73
ALSCUT

12/23/83
GC 160-15216

MIDNIGHT

NOON

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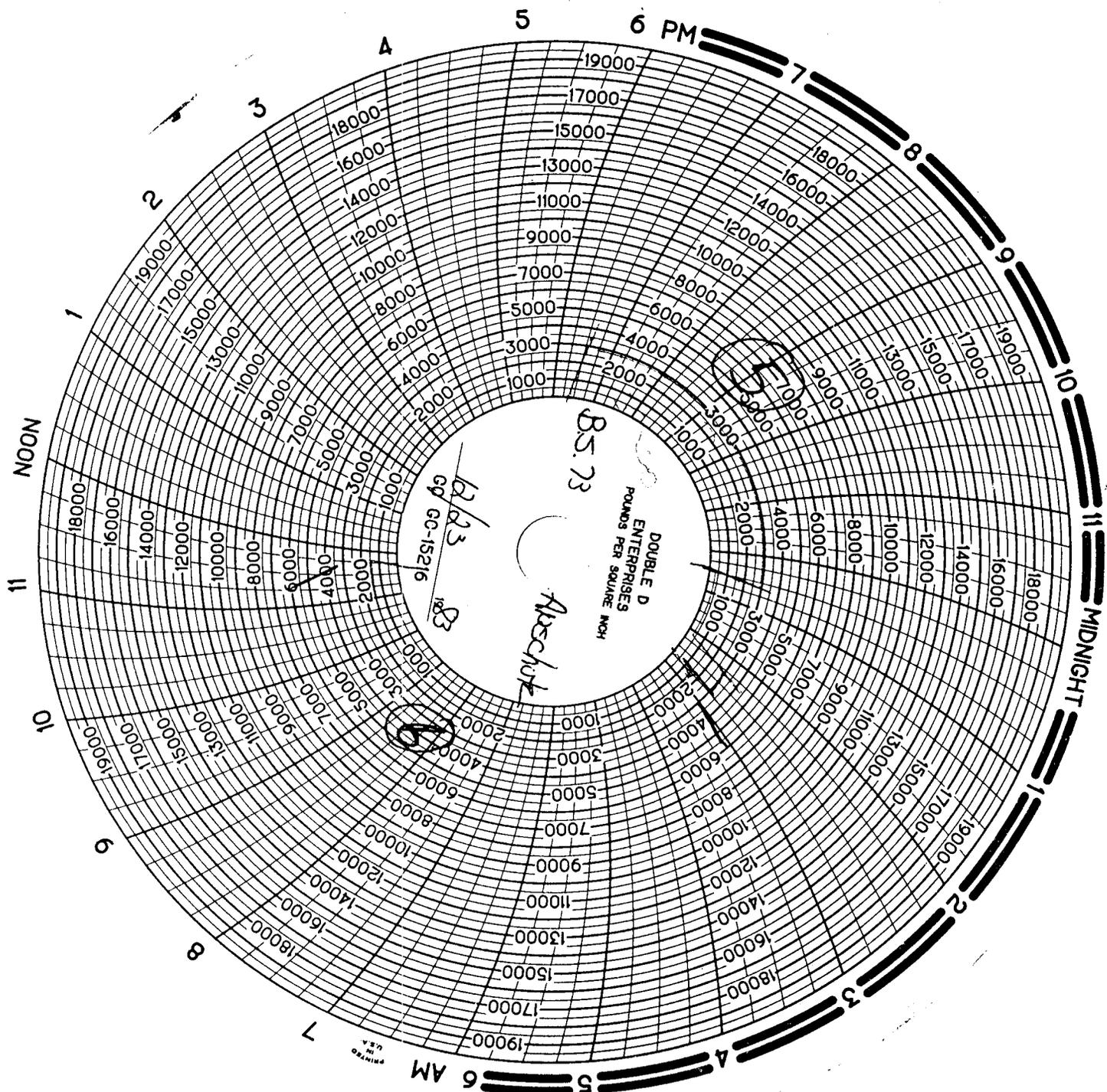
11

10

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7



PRINTED U.S.A.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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 <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U-47812	
2. NAME OF OPERATOR The Anschutz Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME _____	
3. ADDRESS OF OPERATOR 555-17th Street, Suite 2400, Denver, CO 80202		7. UNIT AGREEMENT NAME _____	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1931 FWL, 66.7 FSL (SESW)		8. FARM OR LEASE NAME Moore Ranching	
14. PERMIT NO. _____		9. WELL NO. 14-22	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 7998 GR		10. FIELD AND POOL, OR WILDCAT Wildcat	
_____		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-T3N-R7E	
_____		12. COUNTY OR PARISH Summit	13. STATE UT

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) <u>Monthly Report (drilling)</u> <input checked="" type="checkbox"/>	
(Other) <input 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.)*

01-03-84: Ream and condition hole.
 01-13-84: Drilling ahead at 12,534'.
 01-20-84: Drilled to 12,672', trip out for bit.
 01-27-84: Lay down drill pipe, run new string.

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE Feb. 1, 1984
W. Randall Miller

(This space for Federal or State office use)

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

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE)..... 3/5/84
OIL CO.: Aln schute
WELL NAME & NUMBER..... Moore Feal 14-22
SECTION..... 22
TOWNSHIP..... 3N
RANGE..... 7E
COUNTY..... Summit Utah
DRILLING CONTRACTOR..... B.S. 73

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE..... McCarthy
RIG TOOL PUSHER..... Joe
TESTED OUT OF..... Evans
NOTIFIED PRIOR TO TEST:

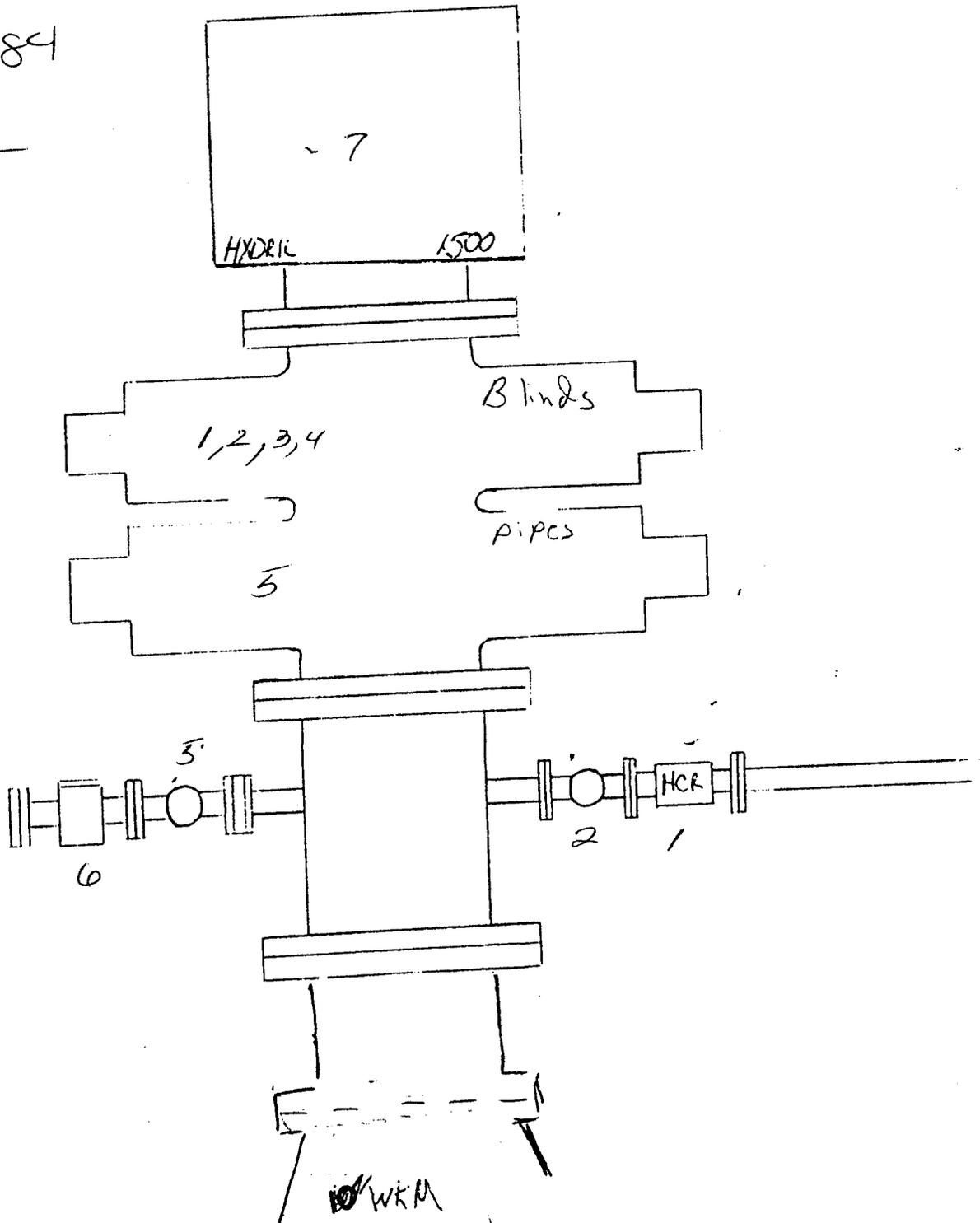
COPIES OF THIS TEST REPORT SENT COPIES TO: Site Rep
..... USGS
..... BLM

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON OFFICE

BS 73

3-3-84

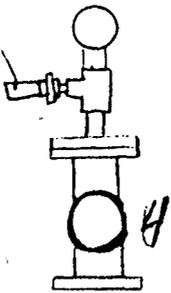
Archibald



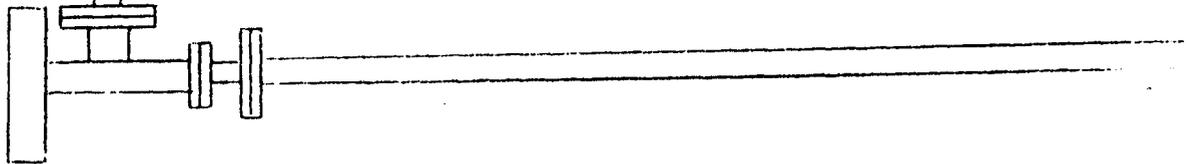
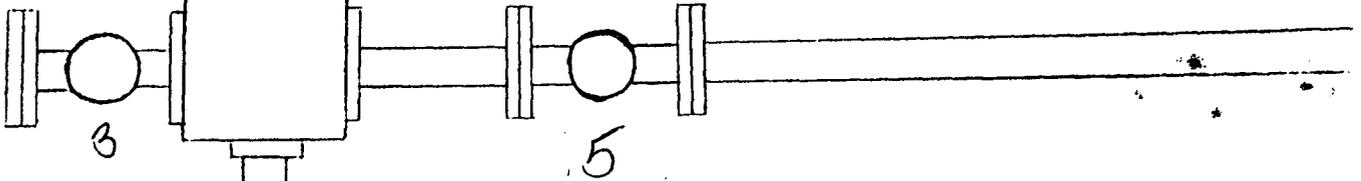
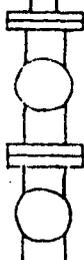
Anschutz Corp

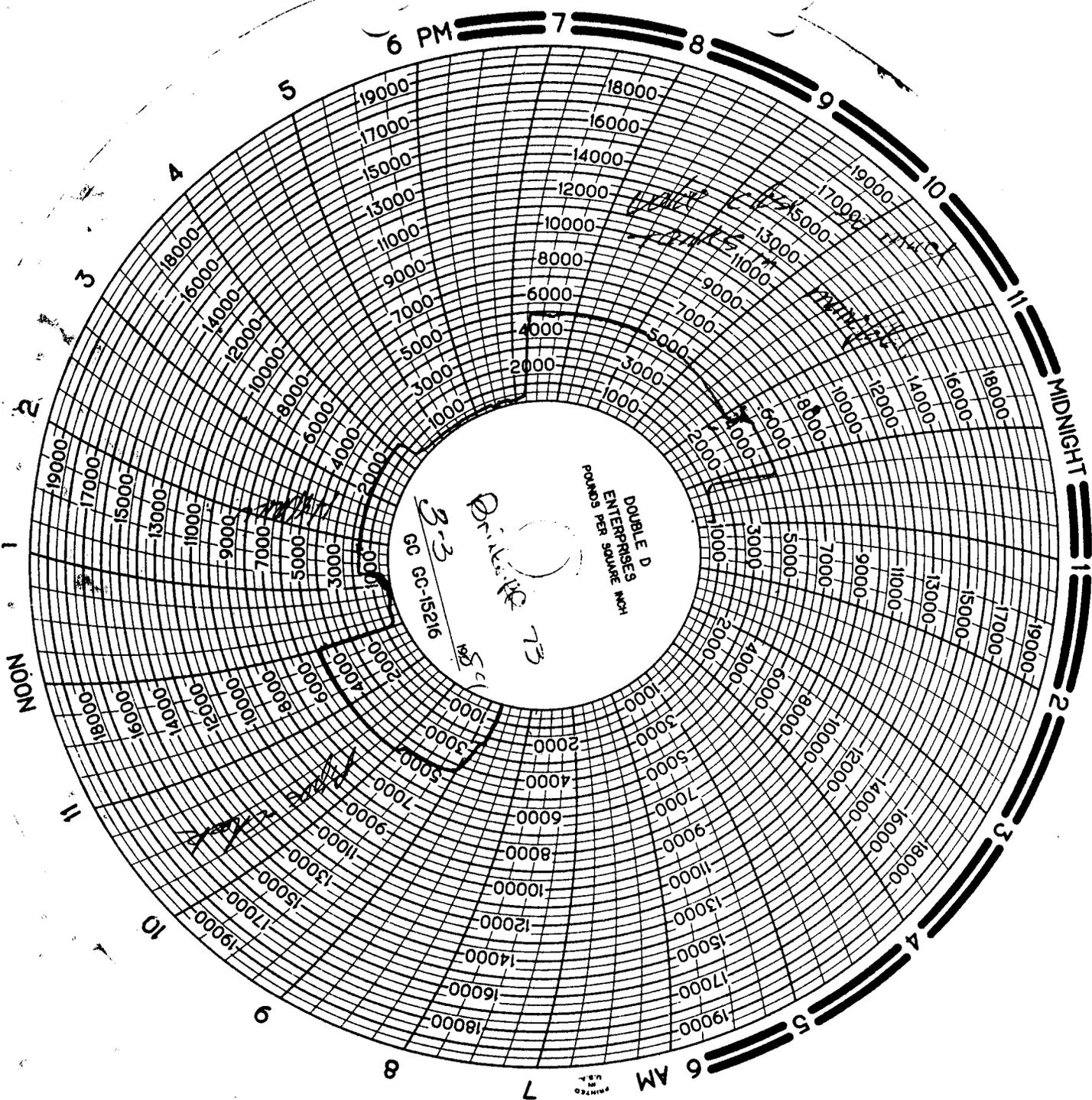
BS 73 - 3,384

2000 PSI - 15 MIN.

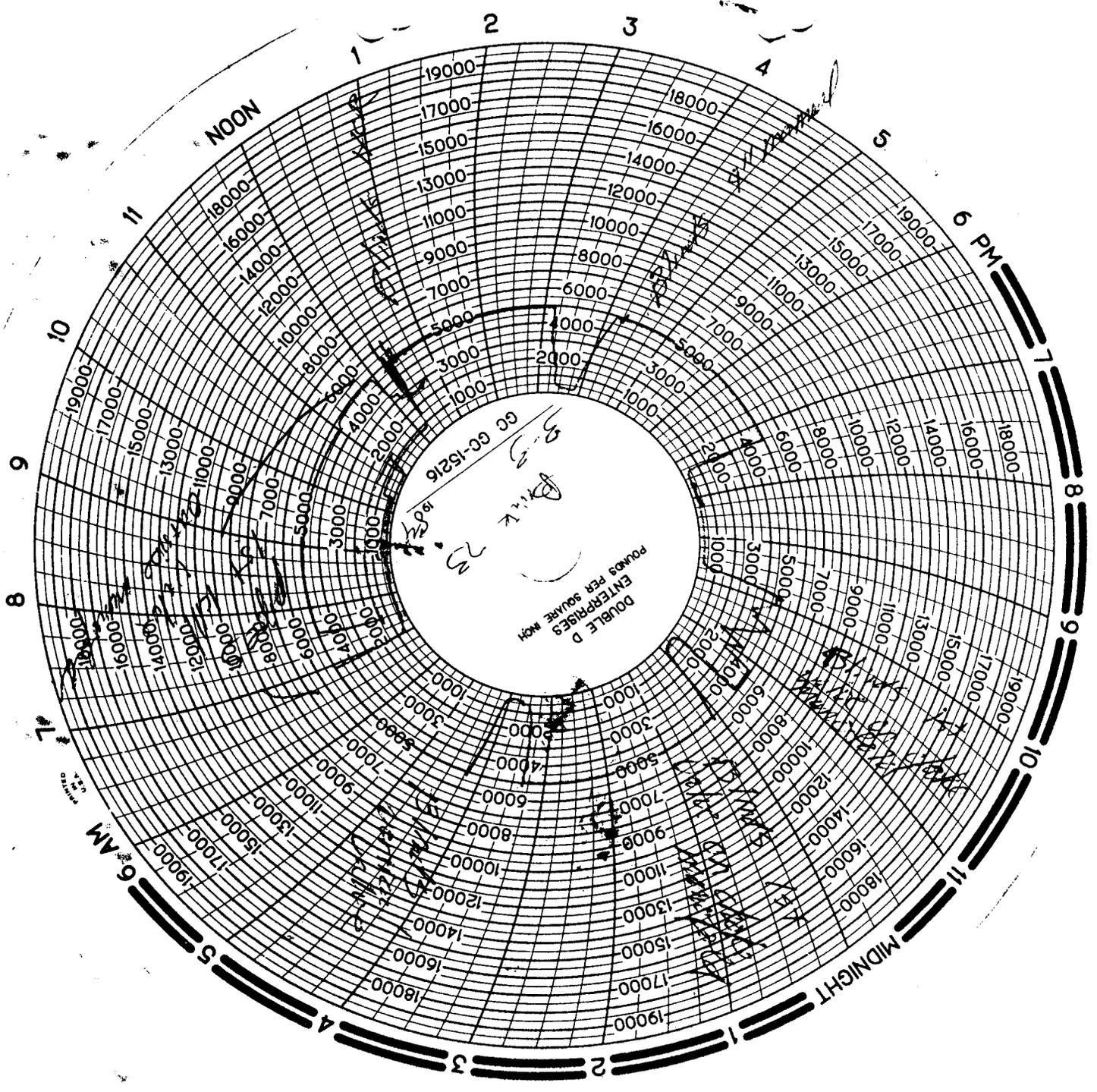


8 HAD TO WORK THIS ONE





PRINTED
 IN
 U.S.A.



DOUBLE D
ENTERPRISES
POUNDS PER SQUARE INCH

GC GC-15216
3-3

6 AM

NOON

6 PM

MIDNIGHT



2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

March 6, 1984

Bureau of Land Management
Branch of Fluid Minerals
1745 West 1700 South
Room 2000
Salt Lake City, Utah 84104

Re: Moore Federal No. 14-22
Sec. 22 - T3N - R7E
Summit County, Utah

Gentlemen:

Enclosed, in quadruplicate, is Sundry Notice Form 9-331, submitted as monthly report of drilling activities for the above-referenced location.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller (by m.e.)

W. Randall Miller
Operations Coordinator

WRM:me
Enclosures

cc: Utah Division of Oil, Gas and Mining

RECEIVED
MARCH 10 1984

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-47812

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Moore Ranching

9. WELL NO.

14-22

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 22, T3N, R7E

12. COUNTY OR PARISH

Summit

13. STATE

Utah

1.

OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

The Anschutz Corporation

3. ADDRESS OF OPERATOR

555-17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1931 FWL, 666.7 FSL (SESW)

14. PERMIT NO.

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

7998 GR

16.

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

Monthly Report (Drilling)

(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.)*

02-01-84: Drilling ahead at 12,825'.
02-08-84: Drilling ahead at 12,884'.
02-13-84: Trip in hole with bit to condition for logs, running logs.
02-20-84: Drilling ahead at 13,259'.
02-28-84: Drilled to 13,450', rig up to run 9 5/8"-9 7/8" casing.

RECEIVED
MAR 8 1984

DIVISION OF
OIL, GAS & MINING

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

SIGNED W. Randall Miller
W. Randall Miller

TITLE Operations Coordinator

DATE March 6, 1984

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

*See Instructions on Reverse Side

DOUBLE "D" ENTERPRISES

B.O.P. Test Report

B.O.P. TEST PERFORMED ON (DATE) 3-8-84

OIL CO.: ANSCHUTZ

WELL NAME & NUMBER MOORE-FED 14-22

SECTION 22

TOWNSHIP 3N

RANGE 7E

COUNTY SUMMIT, UTAH

DRILLING CONTRACTOR B.S. 73

INVOICES BILLED FROM: **DOUBLE "D" ENTERPRISES, INC.**
213 Pine Street - Box 560
Shoshoni, Wyoming 82649
Phone: (307) 876-2308 or (307) 876-2234

TESTED BY: **DOUBLE "D" ENTERPRISES, INC.**
712 Morse Lee Street
Evanston, Wyoming 82930
Phone: (307) 789-9213 or (307) 789-9214

OIL CO. SITE REPRESENTATIVE DOCTORS - John McCarty

RIG TOOL PUSHER Joe

TESTED OUT OF EVANSTON

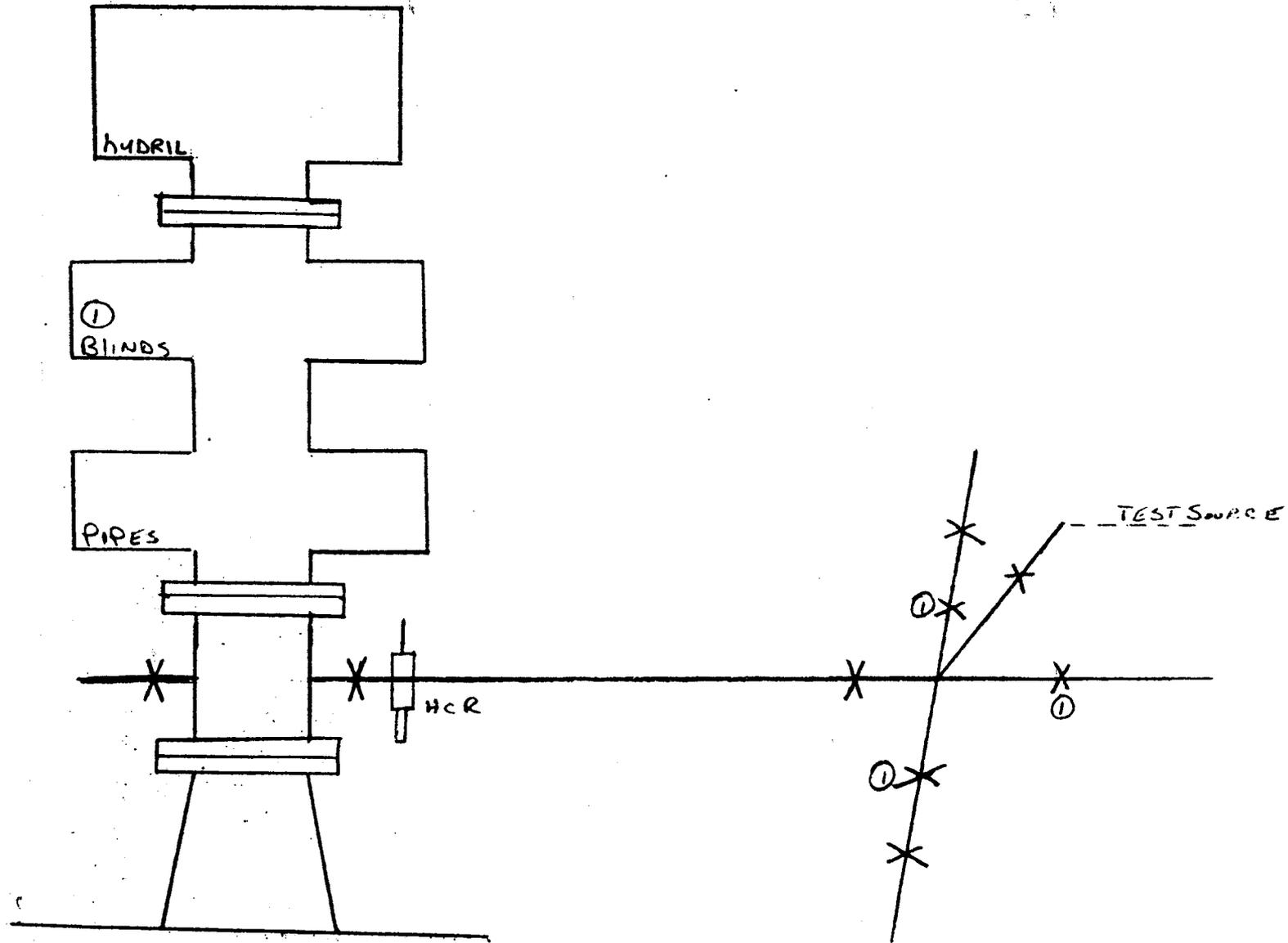
NOTIFIED PRIOR TO TEST:

COPIES OF THIS TEST REPORT SENT COPIES TO: SITE REP.

USGS

BLM

ORIGINAL CHART & TEST REPORT ON FILE AT: EVANSTON OFFICE



ANSCHUTZ
 MOORE FCB 14-22
 BS 73
 3-8-84



2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

April 4, 1984

Bureau of Land Management
Branch of Fluid Minerals
1745 West 1700 South
Room 2000
Salt Lake City, Utah 84104

Re: ✓ Moore Federal No. 14-22
Sec. 22 - T3N - R7E
Summit County, Utah

Gentlemen:

Enclosed, in quadruplicate, is Sundry Notice Form 9-331, submitted as monthly report of drilling activities for the above-referenced location.

Please contact me if there are any questions.

Sincerely,

W. Randall Miller
Operations Coordinator

WRM:me
Enclosures

Utah Division of Oil, Gas & Mining

RECEIVED

APR 6 1984

DIVISION OF
OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPlicate*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

U-47812

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.)

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Moore Ranching

9. WELL NO.

14-22

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec.22, T3N, R7E

12. COUNTY OR PARISH

Summit

13. STATE

Utah

1. OIL WELL GAS WELL OTHER

2. NAME OF OPERATOR

The Anschutz Corporation

3. ADDRESS OF OPERATOR

555-17th Street, Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)

At surface

1931 FWL, 666.7 FSL (SESW)

14. PERMIT NO.

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

7998 GR

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) Monthly report of drilling <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.)*

03-01-84: 300 jts of 9 7/8-9 5/8" casing stuck in hole, work free.
 03-03-84: Work casing to 13,270', cemented with 800 sacks Class "G", 100 sacks Poz.
 03-11-84: Swaging casing at 12,933'.
 03-15-84: Run 25 joints 7" liner, 35#, P110, cement with 300 sacks Class "G"(13,462 TD).
 03-31-84: Drilling ahead at 14,770'.

RECEIVED

APR 6 1984

DIVISION OF OIL, GAS & MINING

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

SIGNED

W. Randall Miller
W. Randall Miller

TITLE

Operations Coordinator

DATE

April 2, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

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 <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER DRY		RECEIVED JUL 11 1984 DIVISION OF OIL GAS & MINING	5. LEASE DESIGNATION AND SERIAL NO. U-47812
2. NAME OF OPERATOR The Anschutz Corporation			6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A
3. ADDRESS OF OPERATOR 555-17th St., Suite 2400, Denver, CO 80202			7. UNIT AGREEMENT NAME N/A
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 1931 FWL, 666.7 FSL (SESW)			8. FARM OR LEASE NAME Moore Ranching
14. PERMIT NO. 43-043-30327	15. ELEVATIONS (Show whether DF, RT, OR, etc.) 7998 GR	9. WELL NO. 14-22	10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 22-T3N-R7E	12. COUNTY OR PARISH Summit
			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 checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) <input 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.)*

The following plugging procedure was approved by the BLM Fluid Minerals Branch after performance was begun due to mistaken contact and approval by Utah Division of Oil, Gas & Mining. Work performed - 4/20/84-7/1/84.

1. Plug #1 14,900'-15,100' in Nugget formation with 40 sacks Class H cement.
2. Plug #2 13,400'-13,500' in Pruess formation with 40 sacks Class H cement.
3. Plug #3 12,400'-12,500' in Pruess formation with 25 sacks Class H cement.
4. Inject reserve pit fluid into 9 5/8' - 13 3/8' annulars to formation at 4300'+.
5. Plug #4 Bradenhead 250 sacks cement into 9 5/8" - 13 3/8" annulus.
6. Abandonment marker set 7/1/84.

Reclamation of location is scheduled and agreed upon by surface owner. Final site reclamation notice will be submitted when complete.

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

SIGNED W. Randall Miller TITLE Operations Coordinator DATE July 6, 1984
W. Randall Miller

(This space for Federal or State office use)

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



2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620

RECEIVED

JUL 26 1984

DIVISION OF OIL
GAS & MINING

July 23, 1984

Ms. Stephanie Barela
Utah Division of Oil, Gas & Mining
4241 State Office Building
Salt Lake City, UT 84114

Re: Moore Federal #14-22 Well
Section 22 - T3N - R7E, Summit County

Dear Ms. Barela:

Enclosed please find a complete copy of the Federal Form 3160-4, Well Completion Report, showing the formation tops information, as per your phone request of July 19, 1984.

Please note that The Anschutz Corporation requests that this information remain confidential. Should this require that the entire well file for this well be placed into confidential status, please do so.

Should there be any questions regarding this, feel free to contact me.

Sincerely,

W. Randall Miller
Operations Coordinator

WRM:me
Enclosures

(November 1983)
(formerly 9-330)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN DUPLICATE

(See instructions on reverse side)

Form Approved
Budget Bureau No. 1004-0137
Expires August 31, 1985

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
555 17th St., Suite 2400, Denver, CO 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1931 FWL, 666.7 FSL (SESW)
At top prod. interval reported below
At total depth

14. PERMIT NO. 30237
43-043-30327 | DATE ISSUED 8-9-83

5. LEASE DESIGNATION AND SERIAL NO.
U-47812

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Moore Ranching

9. WELL NO.
14-22

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 22 - T3N -R7E SLB&1

12. COUNTY OR PARISH
Summit | 13. STATE
Utah

15. DATE SPUNDED 9-10-83 | 16. DATE T.D. REACHED 4-15-84 | 17. DATE COMPL. (Ready to prod.) NA | 18. ELEVATIONS (OF. RKB, RT, GR, ETC.)* 7998 GR | 19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD 15,266 MD | 21. PLUG, BACK T.D., MD & TVD -- | 22. IF MULTIPLE COMPL., HOW MANY* -- | 23. INTERVALS DRILLED BY ALL | ROTARY TOOLS | CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NA - P & A | 25. WAS DIRECTIONAL SURVEY MADE Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN DIL, CNL-DC, BHC Sonic, Dipmeter | 27. WAS WELL CORED Yes

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
20"	133#	390'	26"	1200 SX Class A, 500 Cl. G	None
13 3/8"	72#	4281'	17 1/2"	2375 SX 35-65Poz, 300 Cl.G	None
9 5/8"-9 7/8"		13276'	12 1/4"	800 SX Class H, 18% salt	None
7" (liner)		13462'	9 5/8" csg	300 SX Class G	None

29. LINER RECORD | 30. TUBING RECORD

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

31. PERFORATION RECORD (Interval, size and number) NA - P & A | 32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33. PRODUCTION
DATE FIRST PRODUCTION P&A: 7/6/84 | PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) | WELL STATUS (Producing or shut-in) P&A

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

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

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

35. LIST OF ATTACHMENTS

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

SIGNED W. Randall Miller | TITLE Operations Coordinator | DATE July 6, 1984

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

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

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

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
			N/A - P & A

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 JUL 26 1984
 DIVISION OF OIL
 GAS & MINING

38. GEOLOGIC MARKERS

NAME	MEAS. DEPTH	TOP	TRUE VERT. DEPTH
Base tertiary Gannet Group to Top of Preuss Preuss Salt Twin Creek Nugget	3929'		
	11735'		
	12906'		
	13316'		
	14976'		

Operator Conschultz Corp Representative David Hobbs - Denver
 Well No. 14-22 Located SE 1/4 SW 1/4 Sec. 22 Twp 3N Range 7E
 Lease No. U-47812 Field w/c State Utah
 Unit Name and Required Depth 1/A Base of fresh water sands ?

T.D. 15266 Size hole and Fill Per Sack " " Mud Weight 9# and Top " " #/gal. " "

Casing Size	Set At	Top of Cement	To Be Pulled
20"	390	CIRC	NONE
13 3/8"	4281	CIRC	NONE
9 5/8"	13226	12500±	NONE
7 1/2" Liner	12477-13462		
Formation	Top	Base	Shows
Beaver River	7300		
Garnett	10280	?	
	?		
	?		
Pruess	11346		
Nugget	14984		
TD	15266		

Plugging Requirements		
From	To	Sacks Cement
① Plan to inject 6-8000 bbls drilling fluids into 9 5/8" - 13 3/8" annulus then to formation @ 4300± ② Braden-head 80-100 sacks cement into 9 5/8" - 13 3/8" annulus ③ place 25 sacks cement @ surface in 9 5/8" with regulation marker		
12400	12500	25 SK
13400	13500	40 SK
14900	15100	40 SK
	wct	

Remarks

DST's, lost circulation zones, water zones, etc. Above 3 plugs placed without prior approval - OK by State of Utah
Pick up all debris - fill all holes - fence pits as needed - Rehabilitate according to approved plan

WJ Marlow

Date 4-23-84 Time 9:30

ACCEPTED FOR THE RECORD ONLY

cc: OPERATOR / in violation of approval
 SLDO /
 File this copy

THE HOBBS

THINK IT OUT! WRITE IT OUT!

(303) 298-1000

ANSCHEW 14-22

DATE WELL NO. LEASE FIELD

Max pressure 30,000 bbls
2-3 bpm

20"

13 3/8 @ 1281' 40 AKS

Gannet + Pnuss

Salt saturated mud @ 8500 stringers

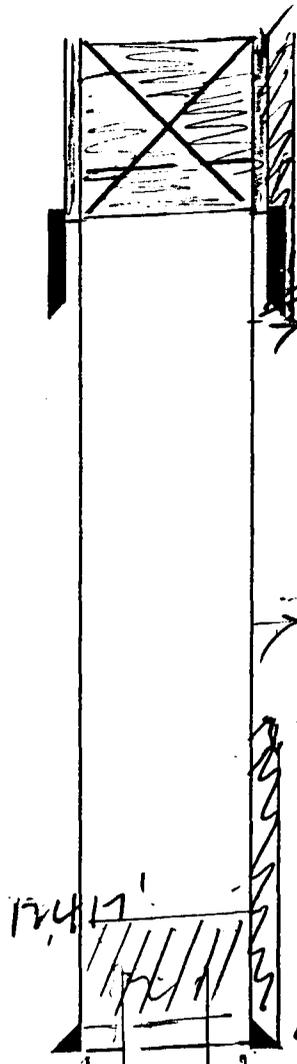
No pipe recovery

12,500'

14,900 - 15,100' -> 40 AKS

9 7/8 @ 13226 @ 13500 - 13400' ->

12,500' - 12,400' ->



TUBING SIZE AND CAPACITY

SIZE	WEIGHT (LB/FT)	ID	BBL/FT
1.900	2.90	1.610	.0025
2.063	3.25	1.751	.0030
2.375	4.70	1.995	.0039
2.875	6.40	2.441	.0058
3.500	8.60	2.258	.0050
3.500	9.30	2.922	.0087
3.500	10.20	2.922	.0083
3.500	12.95	3.170	.0110
4.500	12.75	3.958	.0152

CASING SIZE AND CAPACITY

OD	WEIGHT (LB/FT)	ID	BBL/FT	OD	WEIGHT (LB/FT)	ID	BBL/FT
4 1/2	9.50	4.090	0.0162	5 1/2	17.00	4.892	0.0232
4 1/2	10.50	4.052	0.0159	5 1/2	20.00	4.778	0.0222
4 1/2	11.60	4.000	0.0155	5 1/2	23.00	4.670	0.0212
4 1/2	12.60	3.958	0.0152	7	17.00	6.538	0.0415
4 1/2	13.50	3.920	0.0149	7	20.00	6.456	0.0405
4 1/2	15.10	3.826	0.0142	7	23.00	6.366	0.0394
5	15.00	4.408	0.0189	7	26.00	6.276	0.0383
5	18.00	4.276	0.0178	7	32.00	6.094	0.0361
5	21.00	4.154	0.0168	7	35.00	6.004	0.0350
5 1/2	14.00	5.012	0.0244	7	38.00	5.920	0.0340
5 1/2	15.50	4.950	0.0238				

Turn Creek 13380

Mud 14984

5 7/8 hole
15266
Nugget





STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

February 8, 1985

The Anschutz Corporation
555 Seventeenth Street, Suite 2400
Denver, Colorado 80202

Gentlemen:

Re: Well No. Moore Ranching 14-22 - Sec. 22, T. 3N., R. 7E
Summit County, Utah - API #43-043-30237

According to our records a "Well Completion Report" filed with this office July 6, 1984 on the above referred to well indicates the following electric logs were run: DIL, CNL-FDC, BHC Sonic and Dipmeter. This office has not yet received these logs.

Please take care of this matter as soon as possible, but not later than March 7, 1985.

Your cooperation in this matter is appreciated.

Sincerely,

A handwritten signature in cursive script that reads "Claudia L. Jones".

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0087S/38

WAC *file*



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dianne R. Nielson, Ph.D., Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 801-533-5771

please except our apologies

February 8, 1985

Judy West - geologist
Anschutz

The Anschutz Corporation
555 Seventeenth Street, Suite 2400
Denver, Colorado 80202

RECEIVED
FEB 13 1985

RECEIVED

FEB 19 1985

Gentlemen:

Re: Well No. Moore Ranching 14-22 - Sec. 22, T. 3N., R. 7E
Summit County, Utah - API #43-043-30237

DIVISION OF OIL
& MINING

According to our records a "Well Completion Report" filed with this office July 6, 1984 on the above referred to well indicates the following electric logs were run: DIL, GNI-FDC, BHC Sonic and Dipmeter. This office has not yet received these logs. *ARD*

Please take care of this matter as soon as possible, but not later than March 7, 1985.

Your cooperation in this matter is appreciated.

Sincerely,

Claudia L. Jones

Claudia L. Jones
Well Records Specialist

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File
0087S/38



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Dianne R. Nielson, Ph.D., Division Director

355 W. North Temple • 3 Triad Center • Suite 350 • Salt Lake City, UT 84180-1203 • 801-538-5340

August 6, 1985

The Anschutz Corporation
555 Seventeenth Street #2400
Denver, Colorado 80202

Gentlemen:

Re: Well No. Moore Federal 14-22 - Sec. 22, T. 3N., R. 7E.,
Summit County, Utah - API #43-043-30237

According to our records a "Well Completion Report" filed with this office July 6, 1984 on the above referenced well indicates this well was cored and a directional survey was made. This office has not yet received these reports.

Please take care of this matter as soon as possible, but not later than August 26, 1985.

Sincerely,

A handwritten signature in cursive script that reads "Pam Kenna".

Pam Kenna
Well Records Specialist

Enclosure

cc: Dianne R. Nielson
Ronald J. Firth
John R. Baza
File

0161S/37



2400 ANACONDA TOWER
555 SEVENTEENTH STREET
DENVER, COLORADO 80202
TELEPHONE 303-298-1000
TWX 910-931-2620
TELEX 45-0877

August 26, 1985

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

Attention: Pat Kenna

RE: Moore Federal #14-22
Section 22 T3N-R7E
Summit County
A.P.I. #43-043-30237

Gentlemen:

Enclosed, as requested by your letter of August 6, 1985,
are copies of the directional survey and core report for
this well.

Please contact this office should there be any questions.

Sincerely,

W. Randall Miller
Operations Coordinator

RECEIVED

AUG 28 1985

DIVISION OF OIL
GAS & MINING

PTA

*
*
*

-----SCHLUMBERGER-----

SCHLUMBERGER DIRECTIONAL SURVEY

ANSCHUTZ CORP.

MOORE FEDERAL #14-22

WILDCAT

SUMMIT COUNTY, UTAH

RUN NO. 1 390 - 6094

OCTOBER 8, 1983

START OF SURVEY IS CASING AT 390 FT.

EXACT RADIUS OF CURVATURE METHOD

REFERENCE JCB 16346.

*
*
*

-----SCHLUMBERGER-----
-----SCHLUMBERGER-----

SCHLUMBERGER DIRECTIONAL SURVEY

ANSCHUTZ CORP.

MOORE FEDERAL #14-22

WILDCAT

SUMMIT COUNTY, UTAH

RUN NO. 1 390 - 6094

OCTOBER 8, 1983

START OF SURVEY IS CASING AT 390 FT.

EXACT RADIUS OF CURVATURE METHOD

REFERENCE JCB 10346.

* MEAS. * * DEPTH * * FT *	* DEVIATION * * DEGREES *	* AZIMUTH * * DEGREES *	* TRUE * * VERTICAL * * DEPTH * * FT *	* CO-ORDINATES *		* COURSE * * LENGTH * * FT *
				* + NORTH * * - SOUTH *	* + EAST * * - WEST *	
* 390.0 *	* 0.5 *	* 263 *	* 390.0 *	* 0.0 *	* 0.0 *	* 0.0 *
* 406.0 *	* 0.5 *	* 263 *	* 406.0 *	* 0.0 *	* -0.1 *	* 0.1 *
* 420.0 *	* 0.4 *	* 280 *	* 420.0 *	* 0.0 *	* -0.3 *	* 0.3 *
* 440.0 *	* 0.4 *	* 268 *	* 440.0 *	* 0.0 *	* -0.4 *	* 0.4 *
* 460.0 *	* 0.3 *	* 258 *	* 460.0 *	* 0.0 *	* -0.5 *	* 0.5 *
* 480.0 *	* 0.3 *	* 261 *	* 480.0 *	* 0.0 *	* -0.6 *	* 0.6 *
* 500.0 *	* 0.3 *	* 272 *	* 500.0 *	* 0.0 *	* -0.7 *	* 0.7 *
* 520.0 *	* 0.3 *	* 281 *	* 520.0 *	* 0.0 *	* -0.8 *	* 0.8 *
* 540.0 *	* 0.2 *	* 273 *	* 540.0 *	* 0.0 *	* -0.9 *	* 0.9 *
* 560.0 *	* 0.3 *	* 290 *	* 560.0 *	* 0.0 *	* -1.0 *	* 1.0 *
* 580.0 *	* 0.3 *	* 268 *	* 580.0 *	* 0.0 *	* -1.1 *	* 1.1 *
* 600.0 *	* 0.3 *	* 289 *	* 600.0 *	* 0.0 *	* -1.2 *	* 1.2 *
* 620.0 *	* 0.3 *	* 288 *	* 620.0 *	* 0.1 *	* -1.3 *	* 1.3 *
* 640.0 *	* 0.4 *	* 291 *	* 640.0 *	* 0.1 *	* -1.4 *	* 1.4 *
* 660.0 *	* 0.4 *	* 301 *	* 660.0 *	* 0.2 *	* -1.6 *	* 1.6 *
* 680.0 *	* 0.4 *	* 273 *	* 680.0 *	* 0.2 *	* -1.7 *	* 1.7 *
* 700.0 *	* 0.5 *	* 278 *	* 700.0 *	* 0.2 *	* -1.9 *	* 1.9 *
* 720.0 *	* 0.6 *	* 272 *	* 720.0 *	* 0.2 *	* -2.1 *	* 2.1 *
* 740.0 *	* 0.5 *	* 277 *	* 740.0 *	* 0.3 *	* -2.2 *	* 2.3 *
* 760.0 *	* 0.5 *	* 280 *	* 760.0 *	* 0.3 *	* -2.4 *	* 2.4 *
* 780.0 *	* 0.4 *	* 273 *	* 780.0 *	* 0.3 *	* -2.6 *	* 2.6 *
* 800.0 *	* 0.3 *	* 285 *	* 800.0 *	* 0.3 *	* -2.7 *	* 2.7 *
* 820.0 *	* 0.5 *	* 275 *	* 820.0 *	* 0.3 *	* -2.8 *	* 2.9 *
* 840.0 *	* 0.4 *	* 262 *	* 840.0 *	* 0.3 *	* -3.0 *	* 3.0 *
* 860.0 *	* 0.4 *	* 243 *	* 860.0 *	* 0.3 *	* -3.1 *	* 3.2 *
* 880.0 *	* 0.5 *	* 239 *	* 880.0 *	* 0.2 *	* -3.3 *	* 3.3 *
* 900.0 *	* 0.4 *	* 238 *	* 900.0 *	* 0.1 *	* -3.4 *	* 3.4 *
* 920.0 *	* 0.4 *	* 233 *	* 920.0 *	* 0.0 *	* -3.5 *	* 3.5 *
* 940.0 *	* 0.5 *	* 242 *	* 940.0 *	* 0.0 *	* -3.6 *	* 3.6 *
* 960.0 *	* 0.4 *	* 235 *	* 960.0 *	* -0.1 *	* -3.8 *	* 3.8 *
* 980.0 *	* 0.2 *	* 250 *	* 980.0 *	* -0.2 *	* -3.9 *	* 3.9 *
* 1000.0 *	* 0.1 *	* 267 *	* 1000.0 *	* -0.2 *	* -3.9 *	* 3.9 *
* 1020.0 *	* 0.2 *	* 225 *	* 1020.0 *	* -0.2 *	* -4.0 *	* 4.0 *
* 1040.0 *	* 0.2 *	* 241 *	* 1040.0 *	* -0.3 *	* -4.0 *	* 4.0 *
* 1060.0 *	* 0.0 *	* 0 *	* 1060.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1080.0 *	* 0.2 *	* 232 *	* 1080.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1100.0 *	* 0.0 *	* 0 *	* 1100.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1120.0 *	* 0.0 *	* 0 *	* 1120.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1140.0 *	* 0.0 *	* 0 *	* 1140.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1160.0 *	* 0.0 *	* 0 *	* 1160.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1180.0 *	* 0.0 *	* 0 *	* 1180.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1200.0 *	* 0.0 *	* 0 *	* 1200.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1220.0 *	* 0.1 *	* 57 *	* 1220.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1240.0 *	* 0.0 *	* 0 *	* 1240.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1260.0 *	* 0.1 *	* 83 *	* 1260.0 *	* -0.3 *	* -4.1 *	* 4.1 *
* 1280.0 *	* 0.3 *	* 59 *	* 1280.0 *	* -0.3 *	* -4.0 *	* 4.0 *

MEAS. DEPTH		DEVIATION	AZIMUTH	TRUE VERTICAL	CO-ORDINATES		COURSE
FT		DEGREES	DEGREES	DEPTH	+ NORTH	+ EAST	LENGTH
				FT	- SOUTH	- WEST	FT
1300.0	0.2	80	1300.0	-0.2	-3.9	3.9	
1320.0	0.3	59	1320.0	-0.2	-3.8	3.8	
1340.0	0.5	50	1340.0	-0.1	-3.7	3.7	
1360.0	0.5	54	1360.0	0.0	-3.6	3.6	
1380.0	0.7	52	1380.0	0.1	-3.4	3.4	
1400.0	0.6	62	1400.0	0.2	-3.2	3.2	
1420.0	0.5	46	1420.0	0.3	-3.1	3.1	
1440.0	0.6	54	1440.0	0.4	-2.9	2.9	
1460.0	0.7	46	1460.0	0.5	-2.7	2.8	
1480.0	0.7	53	1480.0	0.7	-2.5	2.6	
1500.0	0.7	50	1500.0	0.9	-2.3	2.5	
1520.0	0.8	47	1520.0	1.0	-2.1	2.4	
1540.0	0.8	57	1540.0	1.2	-1.9	2.3	
1560.0	0.6	52	1560.0	1.4	-1.7	2.2	
1580.0	0.8	50	1580.0	1.5	-1.5	2.2	
1600.0	0.8	48	1600.0	1.7	-1.3	2.2	
1620.0	0.8	45	1620.0	1.9	-1.1	2.2	
1640.0	0.8	38	1640.0	2.1	-0.9	2.3	
1660.0	0.8	38	1660.0	2.3	-0.8	2.4	
1680.0	0.8	45	1680.0	2.5	-0.6	2.6	
1700.0	0.7	50	1700.0	2.7	-0.4	2.7	
1720.0	0.8	55	1720.0	2.8	-0.2	2.9	
1740.0	0.9	38	1740.0	3.1	0.1	3.1	
1760.0	0.6	71	1760.0	3.3	0.2	3.3	
1780.0	0.8	43	1779.9	3.4	0.4	3.4	
1800.0	0.5	51	1799.9	3.6	0.6	3.6	
1820.0	0.8	31	1819.9	3.7	0.7	3.8	
1840.0	0.6	30	1839.9	3.9	0.9	4.0	
1860.0	0.7	15	1859.9	4.1	1.0	4.2	
1880.0	0.6	38	1879.9	4.3	1.1	4.5	
1900.0	0.6	36	1899.9	4.5	1.2	4.7	
1920.0	0.8	42	1919.9	4.7	1.4	4.9	
1940.0	0.6	66	1939.9	4.8	1.6	5.1	
1960.0	0.7	33	1959.9	5.0	1.7	5.3	
1980.0	0.6	23	1979.9	5.2	1.8	5.5	
2000.0	0.5	42	1999.9	5.3	1.9	5.6	
2020.0	0.6	37	2019.9	5.5	2.1	5.8	
2040.0	0.6	22	2039.9	5.7	2.2	6.1	
2060.0	0.7	32	2059.9	5.9	2.3	6.3	
2080.0	0.4	22	2079.9	6.0	2.4	6.5	
2100.0	0.7	33	2099.9	6.2	2.5	6.7	
2120.0	0.6	19	2119.9	6.4	2.6	6.9	
2140.0	0.6	30	2139.9	6.6	2.7	7.1	
2160.0	0.7	360	2159.9	6.8	2.7	7.3	
2180.0	0.6	8	2179.9	7.0	2.7	7.5	
2200.0	0.6	21	2199.9	7.2	2.8	7.7	

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				+ NORTH - SOUTH	+ EAST - WEST	
2220.0	0.8	8	2219.9	7.5	2.9	8.0
2240.0	0.8	355	2239.9	7.7	2.9	8.3
2260.0	0.7	27	2259.9	8.0	2.9	8.5
2280.0	0.6	17	2279.9	8.2	3.0	8.7
2300.0	0.5	17	2299.9	8.4	3.0	8.9
2320.0	0.7	18	2319.9	8.6	3.1	9.1
2340.0	0.8	8	2339.9	8.8	3.2	9.4
2360.0	0.5	4	2359.9	9.0	3.2	9.6
2380.0	0.6	25	2379.9	9.2	3.3	9.7
2400.0	0.6	11	2399.9	9.4	3.3	10.0
2420.0	0.6	13	2419.9	9.6	3.3	10.2
2440.0	0.7	11	2439.9	9.8	3.3	10.4
2460.0	0.7	359	2459.9	10.0	3.4	10.6
2480.0	0.4	357	2479.9	10.2	3.4	10.8
2500.0	0.5	3	2499.9	10.4	3.4	11.0
2520.0	0.5	4	2519.9	10.6	3.4	11.2
2540.0	0.4	35	2539.9	10.8	3.5	11.3
2560.0	0.6	6	2559.9	10.9	3.5	11.5
2580.0	0.3	9	2579.9	11.1	3.5	11.6
2600.0	0.3	27	2599.9	11.2	3.5	11.7
2620.0	0.4	20	2619.9	11.3	3.6	11.8
2640.0	0.3	4	2639.9	11.4	3.6	12.0
2660.0	0.4	333	2659.9	11.5	3.6	12.1
2680.0	0.4	340	2679.9	11.6	3.6	12.2
2700.0	0.4	341	2699.9	11.8	3.5	12.3
2720.0	0.5	339	2719.9	11.9	3.5	12.4
2740.0	0.5	347	2739.9	12.0	3.5	12.5
2760.0	0.5	337	2759.9	12.2	3.4	12.7
2780.0	0.6	333	2779.9	12.4	3.3	12.8
2800.0	0.6	329	2799.9	12.6	3.2	13.0
2820.0	0.4	304	2819.9	12.7	3.1	13.1
2840.0	0.4	334	2839.9	12.8	3.0	13.2
2860.0	0.8	324	2859.9	13.0	2.9	13.3
2880.0	0.5	322	2879.9	13.2	2.3	13.5
2900.0	0.4	325	2899.9	13.3	2.7	13.5
2920.0	0.5	300	2919.9	13.4	2.6	13.6
2940.0	0.3	307	2939.9	13.4	2.5	13.7
2960.0	0.4	287	2959.9	13.5	2.3	13.7
2980.0	0.8	290	2979.9	13.6	2.1	13.8
3000.0	0.5	285	2999.9	13.7	1.9	13.8
3020.0	0.5	311	3019.9	13.8	1.8	13.9
3040.0	0.8	295	3039.9	13.9	1.6	14.0
3060.0	0.6	264	3059.9	13.9	1.4	14.0
3080.0	0.4	295	3079.9	13.9	1.2	14.0
3100.0	0.8	274	3099.9	14.0	1.0	14.0
3120.0	0.4	253	3119.9	14.0	0.8	14.0

MEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES + NORTH - SOUTH	+ EAST - WEST	COURSE LENGTH FT
1060.0	0.3	172	4059.9	12.8	-0.1	12.8
1080.0	0.3	189	4079.9	12.7	-0.1	12.7
1100.0	0.3	167	4099.9	12.6	-0.1	12.6
1120.0	0.1	206	4119.9	12.6	-0.1	12.6
1140.0	0.3	196	4139.9	12.5	-0.1	12.5
1160.0	0.0	0	4159.9	12.4	-0.1	12.4
1180.0	0.2	229	4179.9	12.4	-0.2	12.4
1200.0	0.3	235	4199.9	12.3	-0.3	12.3
1220.0	0.3	231	4219.9	12.3	-0.3	12.3
1240.0	0.0	0	4239.9	12.2	-0.4	12.2
1260.0	0.0	0	4259.9	12.2	-0.4	12.2
1280.0	0.2	322	4279.9	12.2	-0.4	12.2
1300.0	0.3	346	4299.9	12.3	-0.4	12.3
1320.0	0.0	0	4319.9	12.3	-0.4	12.3
1340.0	0.0	0	4339.9	12.3	-0.4	12.3
1360.0	0.1	23	4359.9	12.3	-0.4	12.3
1380.0	0.2	3	4379.9	12.4	-0.4	12.4
1400.0	0.4	340	4399.9	12.5	-0.4	12.5
1420.0	0.3	20	4419.9	12.6	-0.4	12.6
1440.0	0.3	15	4439.9	12.7	-0.4	12.7
1460.0	0.4	358	4459.9	12.8	-0.4	12.8
1480.0	0.3	350	4479.9	13.0	-0.4	13.0
1500.0	0.3	359	4499.9	13.1	-0.4	13.1
1520.0	0.3	15	4519.9	13.2	-0.4	13.2
1540.0	0.3	27	4539.9	13.2	-0.3	13.2
1560.0	0.2	39	4559.9	13.3	-0.3	13.3
1580.0	0.2	55	4579.9	13.4	-0.2	13.4
1600.0	0.4	32	4599.9	13.4	-0.2	13.4
1620.0	0.3	35	4619.9	13.6	-0.1	13.6
1640.0	0.3	20	4639.9	13.6	-0.1	13.6
1660.0	0.5	16	4659.9	13.8	0.0	13.8
1680.0	0.4	9	4679.9	13.9	0.0	13.9
1700.0	0.4	12	4699.9	14.1	0.0	14.1
1720.0	0.4	18	4719.9	14.2	0.1	14.2
1740.0	0.4	37	4739.9	14.3	0.1	14.3
1760.0	0.5	21	4759.9	14.5	0.2	14.5
1780.0	0.6	25	4779.9	14.6	0.3	14.6
1800.0	0.5	27	4799.9	14.8	0.4	14.8
1820.0	0.4	62	4819.9	14.9	0.5	14.9
1840.0	0.6	28	4839.9	15.1	0.6	15.1
1860.0	0.5	36	4859.9	15.2	0.7	15.3
1880.0	0.4	30	4879.9	15.4	0.8	15.4
1900.0	0.4	41	4899.9	15.5	0.9	15.5
1920.0	0.2	80	4919.9	15.6	0.9	15.6
1940.0	0.2	77	4939.9	15.6	1.0	15.6
1960.0	0.2	63	4959.9	15.6	1.1	15.7

NEAS. DEPTH FT	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH FT	CO-ORDINATES		COURSE LENGTH FT
				+ NORTH - SOUTH	+ EAST - WEST	
4990.0	0.2	94	4979.9	15.6	1.2	15.7
5000.0	0.4	99	4999.9	15.6	1.3	15.7
5020.0	0.4	71	5019.9	15.6	1.1	15.7
5040.0	0.4	83	5039.9	15.7	1.5	15.7
5060.0	0.2	128	5059.9	15.7	1.6	15.7
5080.0	0.3	122	5079.9	15.6	1.7	15.7
5100.0	0.4	118	5099.9	15.6	1.8	15.7
5120.0	0.1	126	5119.9	15.5	1.9	15.6
5140.0	0.3	160	5139.9	15.5	1.9	15.6
5160.0	0.1	159	5159.9	15.4	1.9	15.5
5180.0	0.2	173	5179.9	15.4	1.9	15.5
5200.0	0.3	190	5199.9	15.3	1.9	15.4
5220.0	0.3	254	5219.9	15.2	1.9	15.3
5240.0	0.3	258	5239.9	15.2	1.3	15.3
5260.0	0.2	252	5259.9	15.2	1.7	15.2
5280.0	0.0	0	5279.9	15.1	1.7	15.2
5300.0	0.2	276	5299.9	15.1	1.6	15.2
5320.0	0.3	243	5319.9	15.1	1.6	15.2
5340.0	0.2	268	5339.9	15.1	1.5	15.2
5360.0	0.4	266	5359.9	15.1	1.4	15.2
5380.0	0.4	249	5379.9	15.1	1.2	15.1
5400.0	0.5	234	5399.9	15.0	1.1	15.1
5420.0	0.4	248	5419.9	15.0	1.0	15.0
5440.0	0.2	217	5439.9	14.9	0.9	14.9
5460.0	0.2	220	5459.9	14.9	0.9	14.9
5480.0	0.3	257	5479.9	14.8	0.8	14.8
5500.0	0.4	255	5499.9	14.8	0.7	14.8
5520.0	0.3	220	5519.9	14.7	0.6	14.7
5540.0	0.2	211	5539.9	14.7	0.6	14.7
5560.0	0.2	213	5559.9	14.6	0.5	14.6
5590.0	0.3	196	5579.9	14.5	0.5	14.5
5600.0	0.4	198	5599.9	14.4	0.4	14.4
5620.0	0.6	190	5619.9	14.2	0.4	14.2
5640.0	0.4	171	5639.9	14.1	0.4	14.1
5660.0	0.2	170	5659.9	14.0	0.4	14.0
5680.0	0.3	167	5679.9	13.9	0.4	13.9
5700.0	0.3	162	5699.9	13.8	0.4	13.8
5720.0	0.2	149	5719.9	13.7	0.5	13.7
5740.0	0.2	153	5739.9	13.7	0.5	13.7
5760.0	0.3	138	5759.9	13.6	0.6	13.6
5780.0	0.3	135	5779.9	13.5	0.6	13.5
5800.0	0.4	142	5799.9	13.4	0.7	13.4
5820.0	0.4	137	5819.9	13.3	0.8	13.4
5840.0	0.3	137	5839.9	13.2	0.9	13.3
5860.0	0.3	136	5859.9	13.2	1.0	13.2
5880.0	0.5	125	5879.9	13.1	1.1	13.1

MEAS. DEPTH	DEVIATION DEGREES	AZIMUTH DEGREES	TRUE VERTICAL DEPTH	CU-ORDINATES	COURSE LENGTH
FT			FT	+ NORTH * + EAST * - SOUTH * - WEST *	FT
5900.0	0.5	130	5899.9	13.0 * 1.2 *	13.0 *
5920.0	0.5	125	5919.9	12.9 * 1.3 *	12.9 *
5940.0	0.5	125	5939.8	12.8 * 1.5 *	12.9 *
5960.0	0.4	114	5959.8	12.7 * 1.6 *	12.8 *
5980.0	0.5	119	5979.8	12.6 * 1.3 *	12.8 *
6000.0	0.6	113	5999.8	12.5 * 1.9 *	12.7 *
6020.0	0.5	113	6019.8	12.5 * 2.1 *	12.6 *
6040.0	0.8	105	6039.8	12.4 * 2.3 *	12.6 *
6060.0	1.0	117	6059.8	12.3 * 2.6 *	12.6 *
6080.0	0.9	121	6079.8	12.1 * 2.9 *	12.4 *
6094.0	1.0	113	6093.8	12.0 * 3.1 *	12.4 *

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*          BOTTOM HOLE LOCATION          *  
*          COURSE LENGTH:      12.4  FT  *  
*          COURSE AZIMUTH:     14.6  DEGREES *  
*          MEASURED DEPTH:     6094.0 FT  *  
*          TRUE VERTICAL DEPTH: 6093.8 FT  *  
*          DISTANCE NORTH:     12.0  FT  *  
*          DISTANCE EAST:      3.1  FT  *  
*          EXACT RADIUS OF CURVATURE METHOD *  
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The Anschutz Corporation
 Moore Federal 14-22
 Section 22 T 3N R 7E
 Summit County, Utah

(15Ø17-15Ø28) CUT 11' CORE NO. 1 (15Ø17-15Ø28) 4/6/84
 REC. 9.5' NUGGET

15Ø17-18 SS TAN WH HD TITE MASS W/90° OPEN VERT FRAC TR HORIZ CLOSED FRAC
 15Ø18-19 SS AA X-BDD 15-20° ALT LT & DK LAM ALT APPROX 30° + BEC 0-10°
 BLK THIN HORIZ BAND @ 17.4 17.45 & 18
 15Ø19-2Ø SS AA W/4" TAN GRY VFG HD BAND @ 30° 19.5 BEC MASS W/45° CLOSED
 FRAC W/APPROX 1" DISPLAC NUMEROUS CLOSED ERRACTIC MICROFRAC
 15Ø2Ø-21 SS AA 2Ø.2 OPEN 30° HORIZ FRAC AT 2Ø.5 OPEN 30° FRAC W/SLICKEN
 THIN LAM BAND 0-5° W/VERT CLOSED HAIRLINE FRAC
 15Ø21-22 SS AA W/ X-BDED BEC 25° BEC MASS @ BASE 85° CLOSED FRAC & OPEN
 SLICKEN @21.4 & 21.8 & 22
 15Ø22-23 SS AA MASS BEC X-BED THIN BED LAM 45° CLOSED 90° & 85° VERT FRAC
 THICK BED BEC THIN LAM WITH 5-10° BEDDING
 15Ø23-24 SS AA 5-10° BED BEC X-BED 2Ø-25° THICK BAND
 15Ø24-25 SS AA W/60° OPEN FRAC @24.5 OPEN 10° SLICKEN FRAC
 15Ø25-26.5 AA X-BED ERRACTIC BEC IRREG WAVY 3Ø-35° BED 30° SLICK @25.5
 OPEN 75° FRAC AT BASE
 LOST 1.5'

CORE NO. 1 (15Ø17-15Ø28)

15Ø17-18 SS TAN RED WH F-MG P-SORT RD SUBRD QTZ GNS W-CEM TITE QTZITIC HD
 NON CALC NSOFC

15Ø18-19 SS TAN GRY (FRAC SURF) VFG HD TITE NSOFC

15Ø19-2Ø SS AA TAN WH VFG QTZITIC HD TITE NSOFC

15Ø2Ø-21 SS AA VFG NSOFC

15Ø21-22 SS TAN WH BEC F-MG RDD QTZ GNS HD TITE NSOFC

15Ø22-23 SS TAN WH VFG HD TITE TR SLICKEN NSOFC

15Ø23-26.5 SS TAN WH VFG HD TITE NSOFC

CORE NO. 1 SENT TO TERRA-TEK LABS SALT LAKE CITY 4/6/84

CORE DESCRIBED BY JOE SHIMKO

CORING LOG from

CHRISTENSEN DIAMOND PRODUCTS CO.

Home Office: 1937 South 2nd West Mail P.O. Box 387 Salt Lake City, Utah



Date 2-11-51

WELL INFORMATION

EQUIPMENT

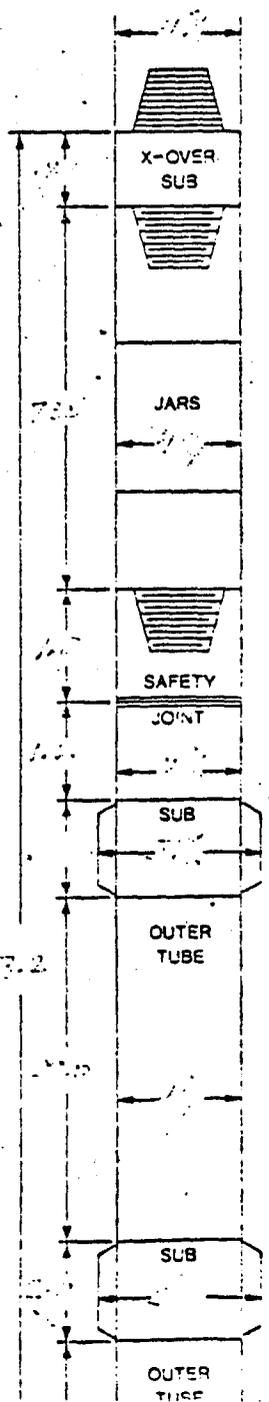
PERFORMANCE

Company ASC. WHITE COPP.
 Contractor Beckerhoff - Sugar
 Number 73
 County Summit State Utah
 Hole Size 5 7/8
 Formation Name Magnet
 Formation Disc. light pink sandstone
 Mud - Wt. 9.2 Vis. 44

Core Barrel No. 15017
 Size 5 7/8 x 2 1/2 Length 60'
 Bit No. _____
 Size 5 7/8 x 2 1/2 Type C-23
 Previous footage 0
 This core 1 Core No. 1
 Total footage 11
 Pump Pressure _____ Linner Size 5 Strokes 211

Interval Cored — Finish _____
 — Start _____
 Footage Cored 11
 Core Recovery 0.0
 % Recover 0.0

NO. FEET CORED	INTERVAL	PENETRATION RATE MINUTES PER FOOT																	OPERATING CONDITIONS			
		2	3	4	5	6	7	8	9	10	15	20	30	40	50	60	70	80	90	WEIGHT	ROTATING RPM	FLUID GPM
0	15017																			4K	34	180
1	15018																			10K	34	180
2	15019																			10K	60	180
3	15020																			15K	60	180
4	15021																					
5	15022																					
6	15023																					
7	15024																					
8	15025																					
9	15026																					
10	15027																					
11	15028																			18K	60	180
12																						
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PRESSURE INCREASED TO 1150 PSI

The Anschutz Corporation.
 Moore Federal 14-22
 Section 22 T 3N R 7E
 Summit County, Utah

CORE NO. 2 (15028-15043) 4/7,8/84
 CUT 15' REC. 15' NUGGET

15028-29 SS TAN PK HD TITE 2" BROKEN PCS AT TOP 25° BED PL THICK X-BD BEC
 COARSE AT 29' MINOR 45° CLOSED FRAC AT 28.2
 15029-32 SS AA HD TITE SLICKEN AT 25° ANGLE AT 29 AND 29.8
 15032-33 SS HD TITE W/25° BED PL VARIOUS BANDS PARTIAL OPEN 85° VERT FRAC
 15033-37 SS HD TITE MASS IN PT 25° BED PL TR-X-BD DISTORTION TR-DK THIN
 LAM CLOSED 80° VERT FRAC FROM 35.5 TO 37
 15037-38 SS HD TITE WELL CEM WAVY BANDING AND LAM FROM 37.5 TO 38 CLOSED
 85° VERT FRAC AT 37.5 TO 38
 15038-43 SS TAN ALT LT & DK THIN LAM SS BEC F-MG FRIA IN PT PORO 5-10°
 BED PL AT 42.5' 80° VERT CLOSED FRAC W/ 1/8" DISPLACEMENT NO
 ODOR
 LOWER 4" RUBBLE

CORE NO. 2 (15028-15043)
 CUT 15' REC. 15'

15028-29 SS TAN WH FG P-SORT TITE HD NON CALC RD SUB RDD NSOFC
 15029-30 SS WH VFG-FG HD TITE TR DK MIN INCLUS NSOFC
 15030-31 SS TAN VFG HD TITE W-CEM MOD W SORT TR SLICKEN NSOFC
 15031-33 SS TAN WH VFG HD TITE QTZ W/DK GRN VFG HD TITE LAM
 15033-34 SS TAN TANWH VF-FG P-SORT HD QTZITIC
 15034-35 SS TAN TANWH VF-FG AA NSOFC
 15035-37 SS TAN WH BEC VP SORT F-M-OCC CG ANG VIS PORO ANG SUBANG LESS
 W-CEM TO MOD CEM NSOFC
 15037-38 SS TAN WH F-MG W/FROST SUBANG GNS P-SORT PORO NSOFC
 15038-39 SS TAN WH BEC VF-FG MOD W-CEM NSOFC
 15039-40 SS TAN WH AA BEC VFG IN PT TITE NSOFC
 15040-41 SS TAN WH VF-MG P-SORT LAM W/RED STN VFG LAM NSOFC
 15041-43 SS TAN TANWH AA LAM IN PT NSOFC

CORE NO. 2 SENT TO TERRA-TEK LABS, SALT LAKE CITY 4/8/84

CORE DESCRIBED BY JOE SHIMKO

CORING LOG from



CHRISTENSEN DIAMOND PRODUCTS CO.

Home Office: 1937 South 2nd West Mail P.O. Box 387 Salt Lake City, Utah

Date 11/03/54

WELL INFORMATION

Company ANSCHUTZ CORP.
 Contractor Brinkhoff - Signal
 Number 73
 County Summit State Utah
 Hole Size 5 7/8
 Formation Name Magnet
 Formation Disc Sandstone
 Mud - Wt. 8.9 Vis. 4.9

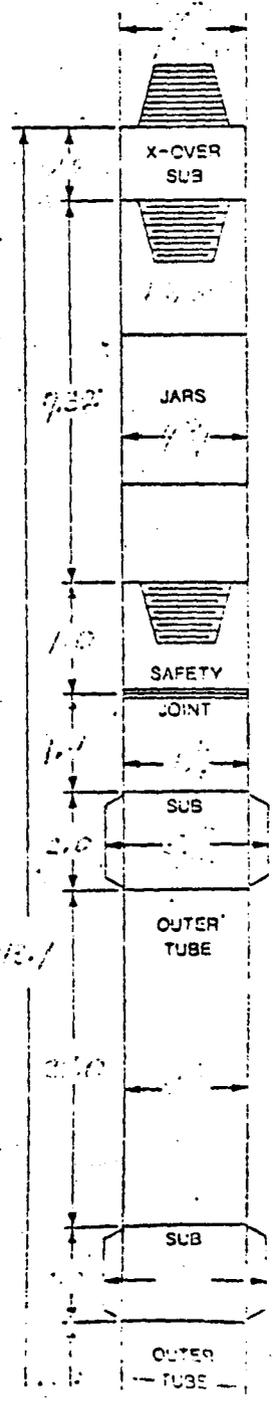
EQUIPMENT

Core Barrel No. 1570
 Size 4 1/2 Length 30'
 Bit No. 15
 Size 5 7/8 Type C-33
 Previous footage 15
 This core 15 Core No. 2
 Total footage 30'

PERFORMANCE

Interval Cored — Finish 15028
 — Start 15028
 Footage Cored 15'
 Core Recovery 15'
 % Recover 100%
 Pump Pressure 1100/1200 Linner Size 5 Strokes 74

NO. FEET CORED	INTERVAL	PENETRATION RATE MINUTES PER FOOT																OPERATING CONDITIONS				
		2	3	4	5	6	7	8	9	10	15	20	30	40	50	60	70	80	90	WEIGHT	ROTATING RPM	FLUID GPM
0	15 028																			6K	34	180
1	15 029																			18K	60	180
2	15 030																			20K	68	180
3	15 031																					
4	15 032																					
5	15 033																					
6	15 034																					
7	15 035																					
8	15 036																					
9	15 037																					
10	15 038																					
11	15 039																					
12	15 040																					
13	15 041																					
14	15 042																					
15	15 043																					
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The Anschutz Corporation
 Moore Federal 14-22
 Section 22 T 3N R 7E
 Summit County, Utah

CORE NO. 3 (15043-15055) 4/9/84
 (15043-15055) CUT 12' REC. 12'

NUGGET

15043-44 SS TAN MOD W-CEM ALT LT&DK LAM NSOFC
 5-10" BED W/65" HEALED FRAC APPROX 1/8" DISPLACE
 15044-45 SS BEC DK TAN
 OPEN VERT FRAC FROM 44.5 TO 50
 15045-46 SS ALT LT & DK TAN LAM
 HEALED 20" FRAC AT 45.1
 15046-48 SS ALT LT & DK TAN BANDING
 OPEN VERT FRAC AT 50
 15050-52 SS RUBBLE SHOWS 2 CROSSING FRAC SLAB PCS
 LAM ALT LT & DK TAN
 15052-55 SS ALT THIN LT & DK LAM THRUOUT
 85" VERT FRAC AT 52-54 OPEN VERT FRAC AT BASE OF CORE

CORE NO. 3 (15043-15055)

15043-45 SS WH F-MG MOD W SORT VIS PORO CLR RD SUBRD QTZ GNS MOD TO P CEM
 NON CALC SM FROST GNS NSOFC
 15045-46 SS AA WH TAN THIN LAM VF-FG IN PT W/ F-MG LAM NSOFC
 15046-47 SS BEC VF-FG IN PT BEC MOD W CEM PK & TAN TINT NSOFC
 15047-48 SS WH TAN THIN LAM BEC MOD W CEM HD WH SILICA ON VERT FRAC
 SURFACE ALT VFG & F-MG LAM NSOFC
 15048-49 SS AA W/ PK THIN VFG LAM NSOFC
 15049-50 SS WH F-MG SUBRD FRST GNS MOD FRI NSOFC
 15050-52 SS RUBBLE & FRAC PCS ATL WH & ROSE PK LAM WH F-MG LAM MOD CEM PK
 VF-FG STREAKS MOD CEM NSOFC
 15052-55 SS ALT LAM WH & PK AA NSOFC

CORE NO. 3 SENT TO TERRA-TEK LABS SALT LAKE CITY 4/9/84

CORE DESCRIBED BY JOE SHIMKO

CORING LOG from



CHRISTENSEN DIAMOND PRODUCTS CO.

Home Office: 1937 South 2nd West Mail P.O. Box 387 Salt Lake City, Utah

Date: *10/10/50*

WELL INFORMATION

Company: *MINUTE CORP.*
 Contractor: *W. H. Sigurdson*
 Number: *72*
 County: *Summit* State: *Utah*
 Hole Size: *5 7/8*
 Formation Name: *Mogart*
 Formation Disc.:
 Mud - Wt.: Vis.:
 Pump Pressure: *1500* Linner Size: Strokes:

EQUIPMENT

Core Barrel No. *1530*
 Size: *5 7/8 x 2 3/4* Length: *30'*
 Bit No.:
 Size: *5 7/8 x 2 3/4* Type: *A-33*
 Previous footage:
 This core: Core No. *3*
 Total footage:

PERFORMANCE

Interval Cored — Finish:
 — Start:
 Footage Cored:
 Core Recovery:
 % Recover:
Interval 15043-15055
Footage 12'

NO FEET CORED	INTERVAL	PENETRATION RATE MINUTES PER FOOT											OPERATING CONDITIONS									
		2	3	4	5	6	7	8	9	10	15	20	30	40	50	60	70	80	90	WEIGHT	ROTATING RPM	FLUID GPM
0	15043																			10K	34	180
1	15044	4																				
2	15045	11																				
3	15046	15																				
4	15047	12																		10K	56	180
5	15048	16																				
6	15049	18																				
7	15050	18																				
8	15051	16																				
9	15052	30																		15K	56	180
10	15053	34																				
11	15054	38																				
12	15055	40																				
13																						
14																						
15																				CORE BARREL JAMMED		
16																				PICKED UP OFF BOTTOM 04:10		
17																						
18																						
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