

FILE NOTATIONS

Entered in N I D File
Entered On S R Sheet _____
Location Map Pinned _____
Card Indexed
I W R for State or Fee Land _____

Checked by Chief _____
Copy N I D to Field Office _____
Approval Letter
Disapproval Letter _____

COMPLETION DATA:

Date Well Completed 5-3-78
OW _____ WW _____ TA _____
GW _____ OS _____ PA

Location Inspected _____
Bond released _____
State of Fee Land _____

LOGS FILED

Driller's Log
Electric Logs (No.)

E _____ I _____ E-I _____ GR _____ GR-N _____ Micro _____
Lat _____ Mi-L _____ Sonic _____ Others _____

Prugged & avanc ned: 5-3-78



Rampart Resources Inc.

GEORGE H. FENTRESS

President

1645 Court Pl., Suite #229
Denver, Colorado 80202
Bus: (303) 825-0561



Consulting Offices:
P. O. Box 113
Wheat Ridge, Colo. 80033
Bus: (303) 423-0835
Res: (303) 279-4880

**ENVIRONMENTAL
ENGINEERING
COMPANY**



*Government lease control
regulations
Mineral development planning
Environmental analyses/impact
statements*

George H. Fentress

ED HAYMAKER
Casper, Wyoming 82601

P. O. Box 3341
Phone (307) 234-6186

Denver, Colorado 80202

1645 Court Place Suite 229
Phone (303) 892-1506

Geo. FENTRESS



Rampart Resources Inc.

GEORGE H. FENTRESS
President

**1645 Court Pl., Suite #229
Denver, Colorado 80202
Bus: (303) 825-0561**



**Consulting Offices:
P. O. Box 113
Wheat Ridge, Colo. 80033
Bus: (303) 423-0835
Res: (303) 279-4880**

UNITED STATES DEPARTMENT OF THE INTERIOR GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

5. LEASE DESIGNATION AND SERIAL NO. U-0149769
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME
8. FARM OR LEASE NAME Federal
9. WELL NO. #1 Federal 769
10. FIELD AND POOL, OR WILDCAT E. Willow Creek Unit
11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 19-T 19 S-R 21 E
12. COUNTY OR PARISH Grand
13. STATE Utah

1a. TYPE OF WORK DRILL [X] DEEPEN [] PLUG BACK []
b. TYPE OF WELL OIL WELL [] GAS WELL [X] OTHER [] SINGLE ZONE [X] or possible MULTIPLE ZONE [X]

2. NAME OF OPERATOR The Anschutz Corporation, Inc.

3. ADDRESS OF OPERATOR 1110 Denver Club Bldg., Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1630' FWL, 1540' FSL At proposed prod. zone 1490' same hw sw

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles from Thompson, Utah on I-70 then 23.5 miles up Nash Canyon northwest

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 1630'

16. NO. OF ACRES IN LEASE 1380.87

17. NO. OF ACRES ASSIGNED TO THIS WELL 160 ac

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

19. PROPOSED DEPTH 5550'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 6514 ground

22. APPROX. DATE WORK WILL START* April 25, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

Table with 5 columns: SIZE OF HOLE, SIZE OF CASING, WEIGHT PER FOOT, SETTING DEPTH, QUANTITY OF CEMENT. Includes rows for 11" hole and 6 3/4" casing.

- 1. Drill 11" hole to 300' (possibly with air) to 300' and set surface casing
2. Log B. O. P. tests daily while drilling the 6 3/4" hole to T. D.
3. Run electric logs, and run 6 3/4" casing if productive.
4. Run other logs as needed, perforate and stimulate as needed.

EXHIBITS ATTACHED

- "A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"C" The Blowout Preventer Diagram
"D" The Multi-Point Requirement for A. P. D.
"E" Access Road Map into Location.
"F" Radius Map of wells in area.
"G" Drill Pad Layout, Contours & Cut-Fill Section
"H" Drill Rig and Production Facilities Layout

Handwritten signature/initials

Approval notice This is Oil, Gas & Mining - Utah
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. George H. Fentress Agent Consultant for Anschutz Corporation, Inc. DATE March 31, 1977

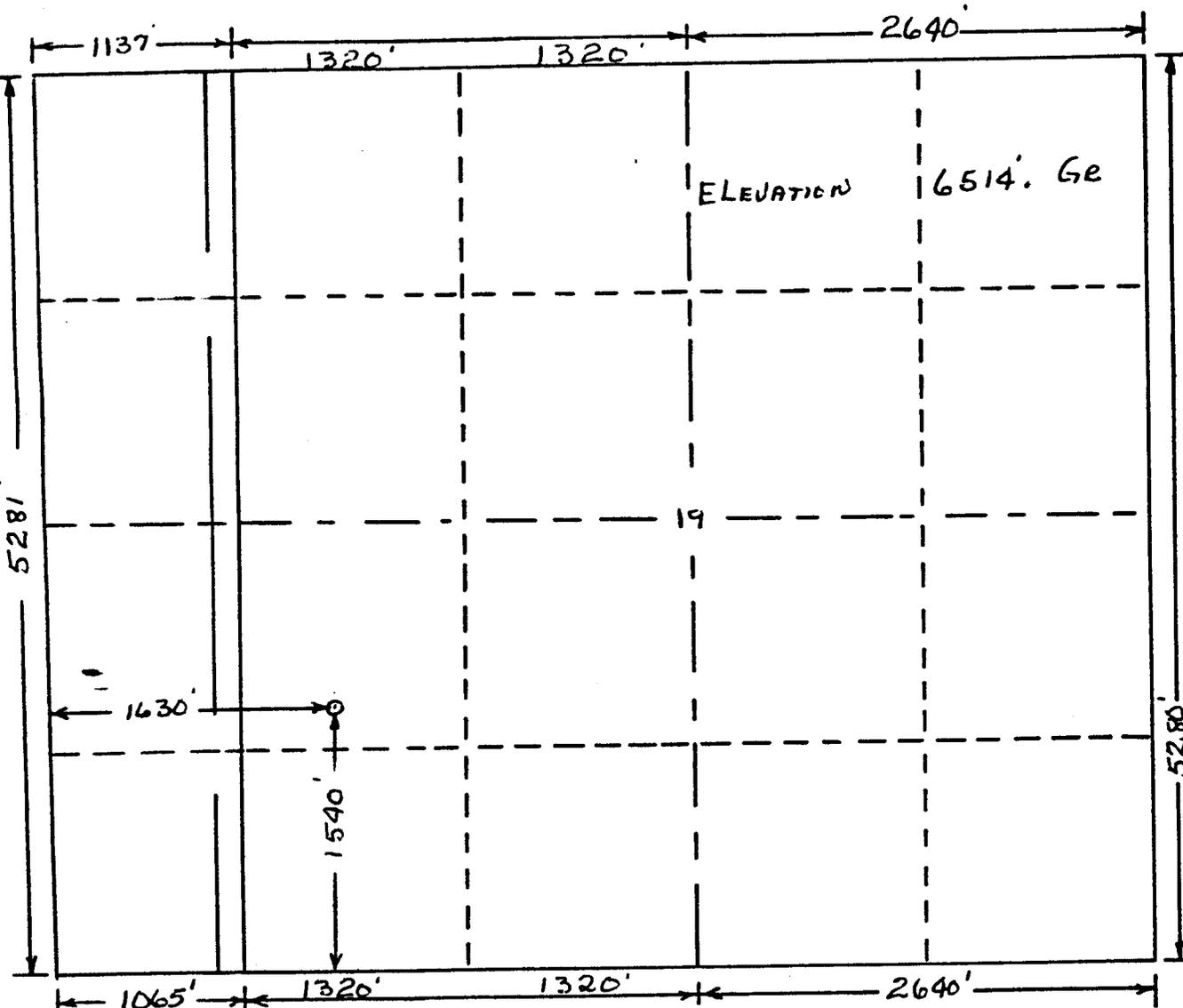
PERMIT NO. APPROVAL DATE

APPROVED BY (ORIG. SGD.) E. W. GUYNN TITLE DISTRICT ENGINEER DATE APR 22 1977

*See Instructions On Reverse Side



R. 21 E.



T.
19
S.

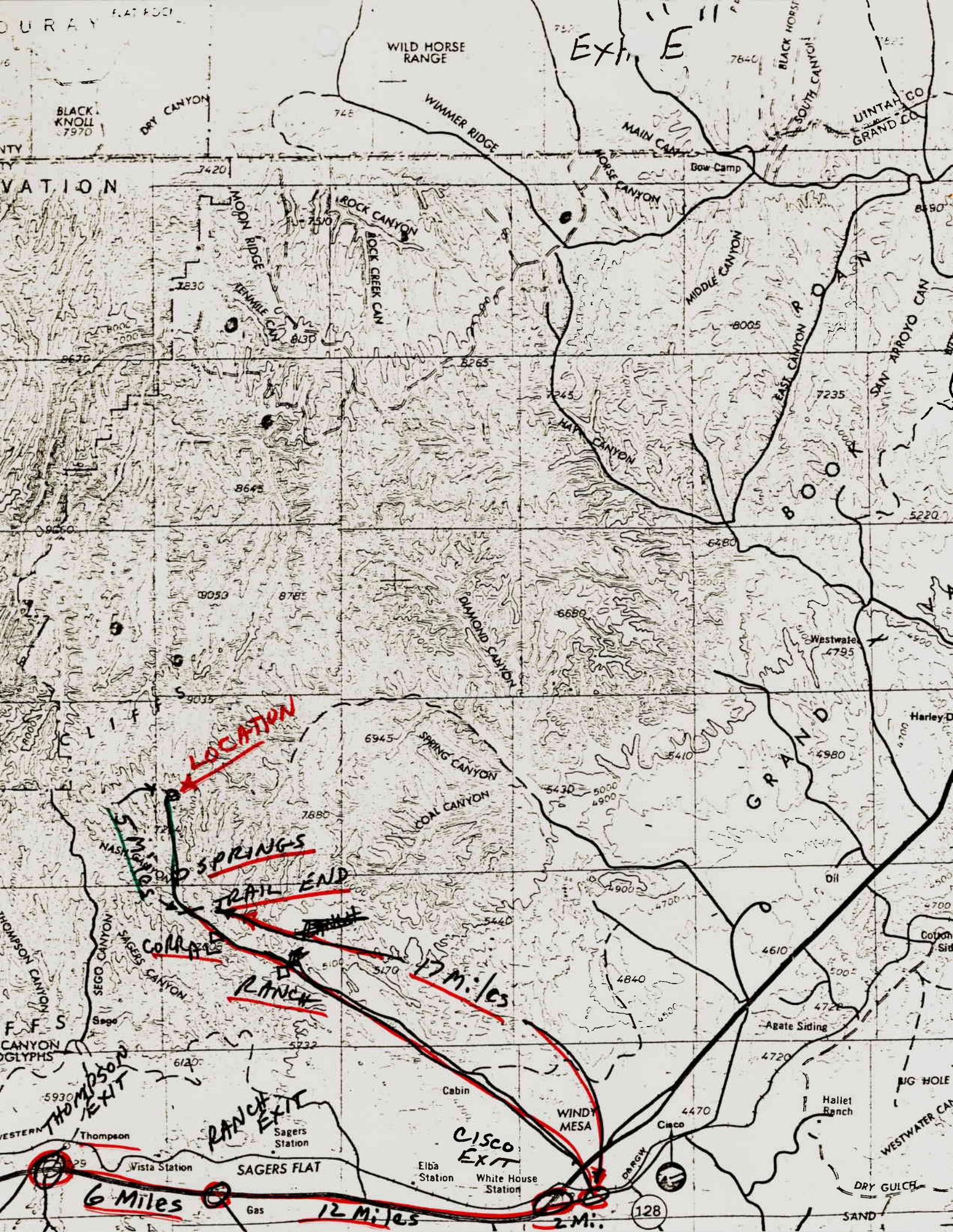
Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from GEORGE FENTRESS
 for THE ANSCHUTZ CORPORATION
 determined the location of #1 FEDERAL-769
 to be 1540' FS & 1630' FW Section 19 Township 19 S.
 Range 21 E OF THE SALT LAKE Meridian
 GRAND County, UTAH

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #1 FEDERAL-767

Date: 3-28-77

T Nelson
 Licensed Land Surveyor No.
 State of UTAH #2711



Ext. E

WILD HORSE RANGE

BLACK KNOLL 7970

DRY CANYON

WIMMER RIDGE

MAIN CANYON

BLACK HORSE SOUTH CANYON

UINTAH CO GRAND CO

MIDDLE CANYON

MOON RIDGE

ROCK CANYON

ROCK CREEK CAN

HOSE CANYON

EAST CANYON

SAN ARROYO CAN

DIAMOND CANYON

SPRING CANYON

COAL CANYON

LOCATION

SPRINGS

TRAIL END

RANCH

17 Miles

THOMPSON EXIT

RANCH EXIT

CISCO EXIT

WINDY MESA

SAGERS FLAT

6 Miles

12 Miles

2 Miles

128

Vista Station

Sagers Station

Elba Station

White House Station

Cabin

Cisco

Hallet Ranch

DRY GULCH

SAND

GRAND CANYON

Oil

Agate Siding

WESTWATER CAN

WINDY MESA



ENVIRONMENTAL ENGINEERING COMPANY

Professional Engineering Services

P. O. Box 3341
Casper, Wyoming 82601
Phone (307) 234-6186

1645 Court Place
Suite 229
Denver, Colorado 80202
Phone (303) 892-606

George H. Fentress
P. O. Box 113
Wheat Ridge, Colorado 80033

Handwritten initials and signature

April 16, 1977

Patrick L. Driscoll, Chf. Petr. Engr.
Utah Oil, Gas & Mining Division
1588 West, North Temple
Salt Lake City, Utah 84116



RE: BLM Lease U-149769
E. Willow Ck. Unit
Sec. 19-T19S-R21E
Grand Co., Utah
PERMIT TO DRILL

Dear Pat:

Enclosed are two copies of the following, in accordance with our telephone discussion yesterday:

- (1) U.S.G.S. Form 9-331C Application to drill the above well, which sets out most items which you would require on your Form OGC-1a, except that I do not include other NTL-6 items as required by BLM.
- (2) Copies of the Powers Elevation Company elevation plat, which I call "EXHIBIT "A", and which does have a Utah Surveyor Seal #2711 that does not appear in the reproduced copy, but which is available, should you so need.
- (3) Our EXHIBIT "E" which shows the mileages to the location from Thompson, Utah, and
- (4) Our copy of EXHIBIT "F" that shows the topographic map of the area, the wells of the area, and our access into the area, as colored in green, where we will have to improve the old jeep trail up Nash Draw.

Please note on the surveyor plat that the west half of Section 19 is quite long E-W, and though this may appear to be off spacing, the acreage not only lies within the Unit boundary, but also within the BLM lease boundary at these distances from the section lines. I do not believe this is an exception matter, but if you have a problem with it, please call me, or Jack Hoover with Anschutz, because I'm not sure my wording here is correct.

It was good talking with you again and we do appreciate your attention to this so we can meet a deadline to move on next week sometime. Please send your approval to me at the above P. O. Box.

cc. Jack Hoover

Best wishes

George H. Fentress
George H. Fentress

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 or possible MULTIPLE ZONE

2. NAME OF OPERATOR
 The Anschutz Corporation, Inc.

3. ADDRESS OF OPERATOR
 1110 Denver Club Bldg., Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface 1630' FWL, 1540' FSL
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 20 miles from Thompson, Utah on I-70 then 23.5 miles up Nash Canyon northwest

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)	1630'	16. NO. OF ACRES IN LEASE	1380.87	17. NO. OF ACRES ASSIGNED TO THIS WELL	160 ac
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.		19. PROPOSED DEPTH	5550'	20. ROTARY OR CABLE TOOLS	Rotary
21. ELEVATIONS (Show whether DF, RT, GR, etc.)			22. APPROX. DATE WORK WILL START*		
6514 ground			April 25, 1977		

5. LEASE DESIGNATION AND SERIAL NO.
 U - 149769
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME

 7. UNIT AGREEMENT NAME

 8. FARM OR LEASE NAME
 Federal
 9. WELL NO.
 #1 Federal 769
 10. FIELD AND POOL, OR WILDCAT
 E. Willow Creek Unit
 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
 19 - T 19 S - R 21 E
 12. COUNTY OR PARISH
 Grand
 13. STATE
 Utah

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11'	8 5/8" new	24#	300'	200 sx Class G
6 3/4"	4 1/2"	9.5#	5300'	200 sx 50-50 posmix

1. Drill 11" hole to 300' (possibly with air) to 300' and set surface casing
2. Log B. O. P. tests daily while drilling the 6 3/4" hole to T. D.
3. Run electric logs, and run 6 3/4" casing if productive.
4. Run other logs as needed, perforate and stimulate as needed.

EXHIBITS ATTACHED

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirement for A. P. D.
- "E" Access Road Map into Location.
- "F" Radius Map of wells in area.
- "G" Drill Pad Layout, Contours & Cut-Fill Section
- "H" Drill Rig and Production Facilities Layout

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. George H. Fentress Agent Consultant for
 SIGNED *George H. Fentress* TITLE Anschutz Corporation, Inc. DATE March 31, 1977

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE _____

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

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, Inc.

3. ADDRESS OF OPERATOR
 1110 Denver Club Bldg., Denver, Co. 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
 At surface: 1630' FWL, 1540' FSL
 At proposed prod. zone: same
 SW NE SW

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 20 miles from Thompson, Utah on I-70 then 23.5 miles up Nash Canyon northwest

15. DISTANCE FROM PROPOSED LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 1630'

16. NO. OF ACRES IN LEASE
 1380.87

17. NO. OF ACRES ASSIGNED TO THIS WELL
 160 ac

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

19. PROPOSED DEPTH
 5550'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 6514 ground

22. APPROX. DATE WORK WILL START*
 April 25, 1977

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
11'	8 5/8" new	24#	300'	200 sx Class G
6 3/4"	4 1/2"	9, 5#	5300'	200 sx 50-50 posmix

1. Drill 11" hole to 300' (possibly with air) to 300' and set surface casing
2. Log B. O. P. tests daily while drilling the 6 3/4" hole to T. D.
3. Run electric logs, and run 6 3/4" casing if productive.
4. Run other logs as needed, perforate and stimulate as needed.

EXHIBITS ATTACHED

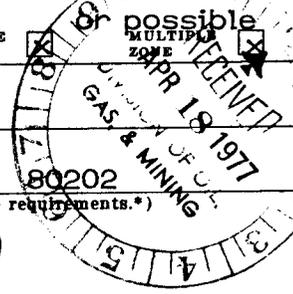
- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "C" The Blowout Preventer Diagram
- "D" The Multi-Point Requirement for A. P. D.
- "E" Access Road Map into Location.
- "F" Radius Map of wells in area.
- "G" Drill Pad Layout, Contours & Cut-Fill Section
- "H" Drill Rig and Production Facilities Layout

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 George H. Fentress Agent Consultant for
 TITLE Anschutz Corporation, Inc. DATE March 31, 1977

PERMIT NO. B-019-30352 APPROVAL DATE _____

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



5. LEASE DESIGNATION AND SERIAL NO.
 U - 149769

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
 Federal

9. WELL NO.
 #1 Federal 769

10. FIELD AND POOL OR WILDCAT
 Willow Creek Unit

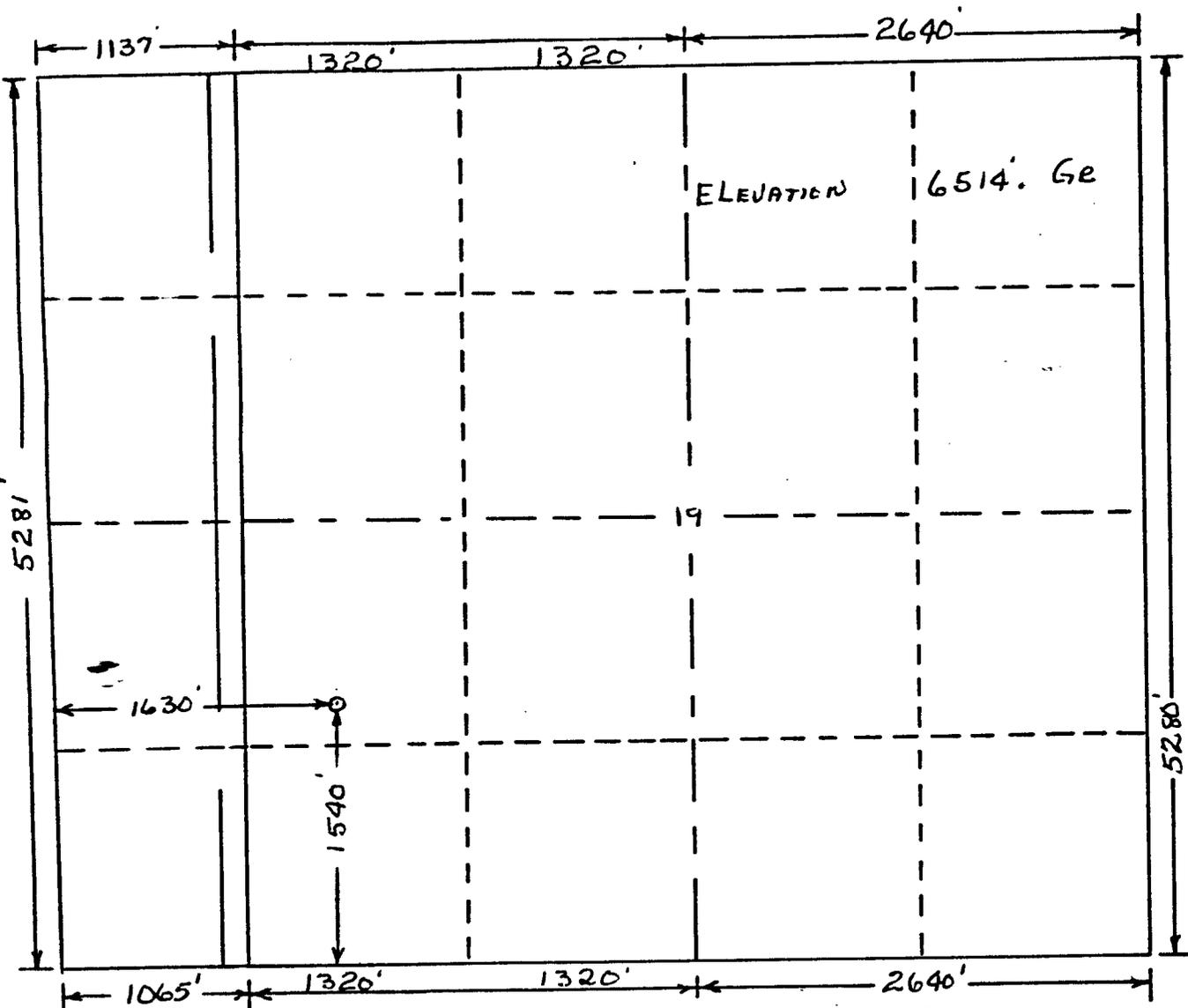
11. SEC., T., R., M., OR B.L.K. AND SURVEY OR AREA
 19 - T 19 S - R 21 E

12. COUNTY OR PARISH
 Grand

13. STATE
 Utah



R. 21 E.



T.
19
S.

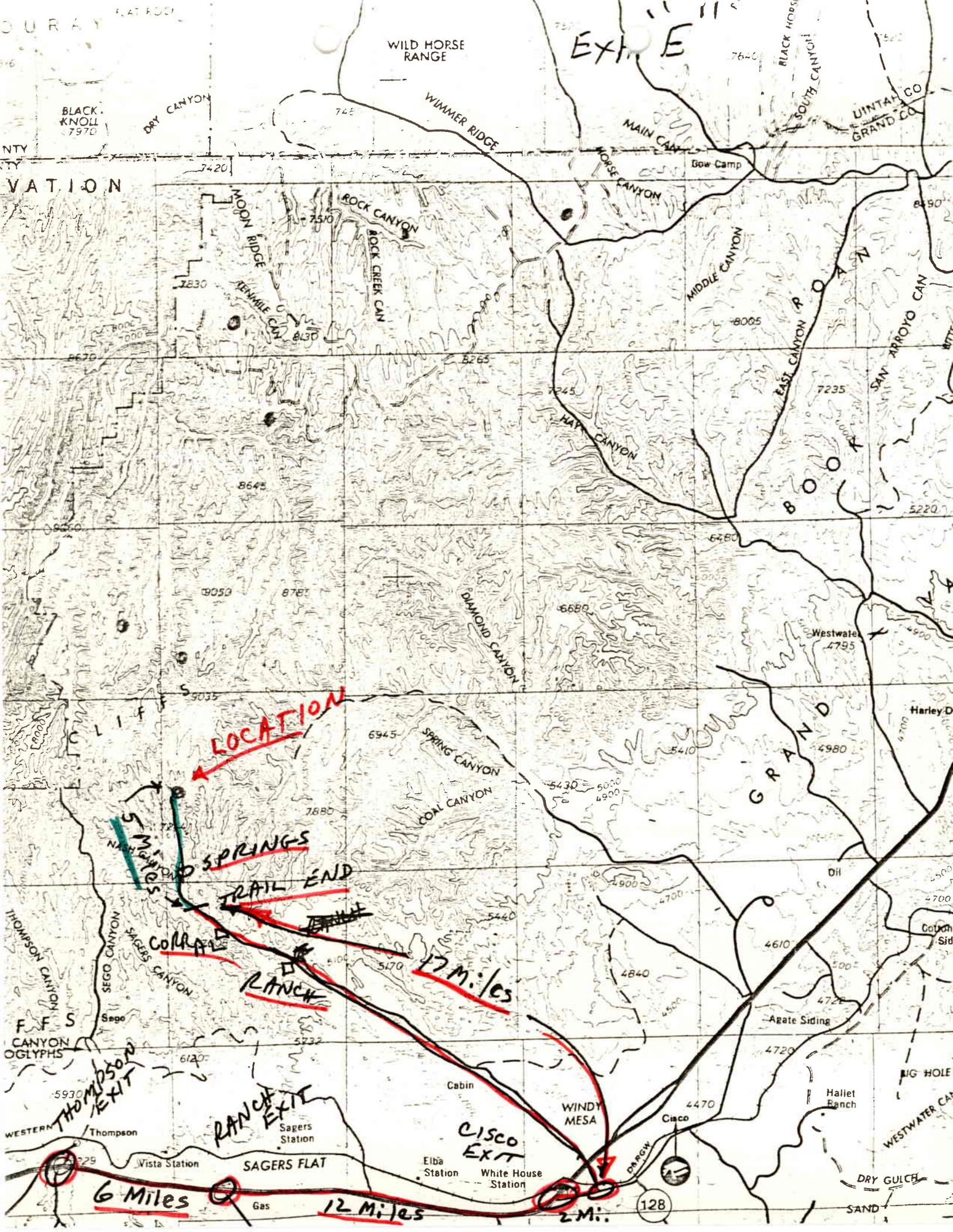
Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
 has in accordance with a request from *GEORGE FENTRESS*
 for *THE ANSCHUTZ CORPORATION*
 determined the location of #1 FEDERAL-769
 to be 1540' FS & 1630' FW Section 19 Township 19 S.
 Range 21 E OF THE SALT LAKE Meridian
 GRAND County, UTAH

I hereby certify that this plat is an
 accurate representation of a correct
 survey showing the location of
 #1 FEDERAL-767

Date: 3-28-77

T. Nelson
 Licensed Land Surveyor No.
 State of UTAH #2711



WILDERNESS

EXIT E

BLACK KNOLL 7970

DRY CANYON

WIMMER RIDGE

BLACK HOBBS SOUTH CANYON

UINTAH CO GRAND CO

WILDERNESS

7420

MAIN CANYON

Gow Camp

MOON RIDGE

ROCK CANYON

ROCK CREEK CAN

FORE CANYON

MIDDLE CANYON

BOOK

EAST CANYON

SAN ARROYO CAN

RENWICK CAN

HART CANYON

8645

DIAMOND CANYON

GRAND

LOCATION

SPRINGS

TRAIL END

RANCH

17 Miles

THOMPSON CANYON

SEGO CANYON

THOMPSON EXIT

RANCH EXIT

CISCO EXIT

6 Miles

12 Miles

2 Miles

WINDY MESA

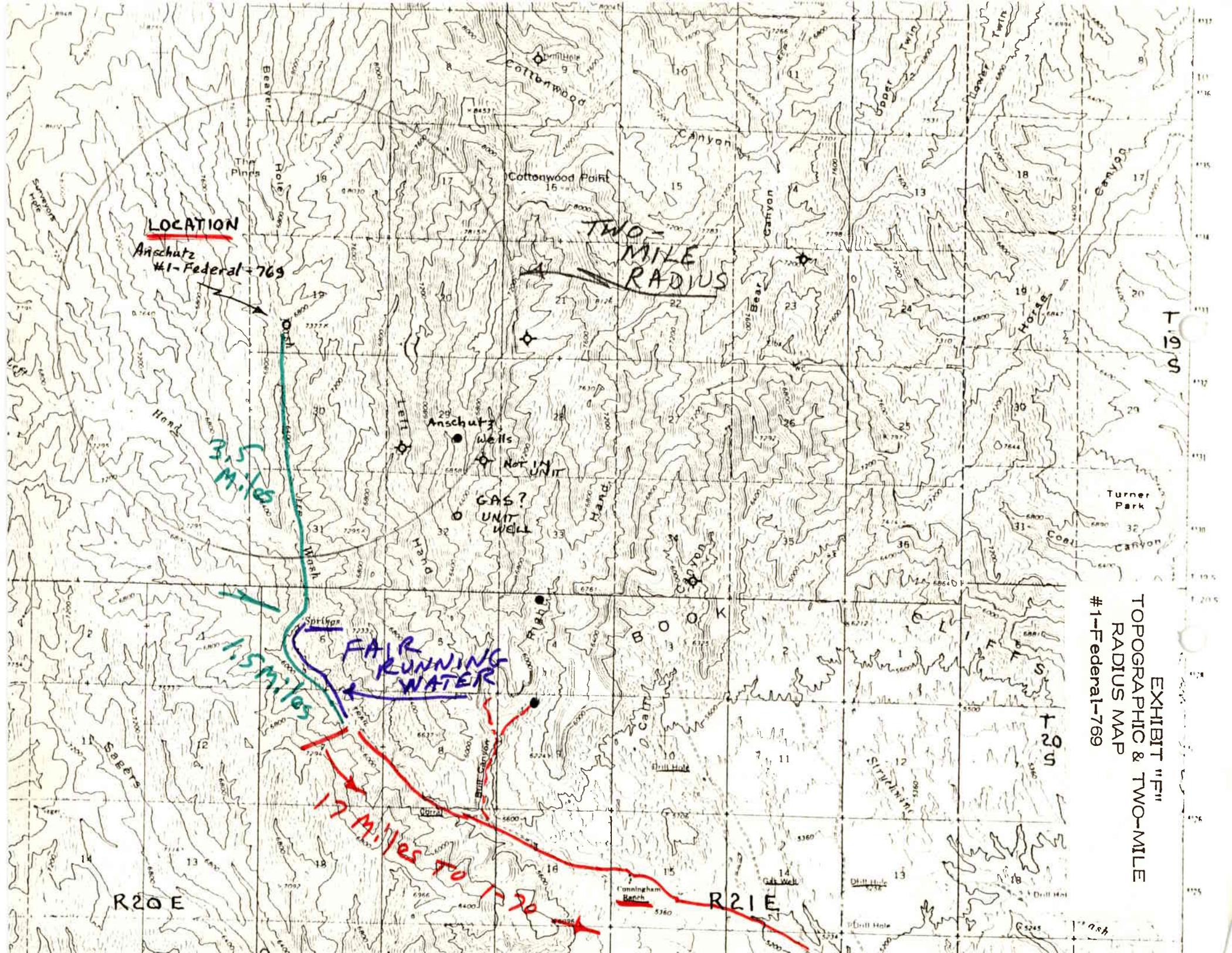
SAGERS FLAT

White House Station

128

DRY GULCH

SAND



LOCATION

Anschutz #1-Federal-769

TWO-MILE RADIUS

3.5 Miles

1.5 Miles

FAIR RUNNING WATER

17 Miles to R20

GAS? UNIT WELL

Anschutz Wells

EXHIBIT "F"
TOPOGRAPHIC & TWO-MILE
RADIUS MAP
#1-Federal-769

T 19 S

T 20 S

R 20 E

R 21 E

April 19, 1977

The Anschutz Corporation
c/o George H. Fentress
P.O. Box 113
Wheat Ridge, Colorado 80033

RE: Well No. E. Willow Creek Unit
Federal 769 - #1
Sec. 19, T. 19 S, R. 21 E,
Grand County, Utah

Gentlemen:

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

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

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

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

Further, it is requested that this office be notified within 24 hours after drilling operations have commenced, and that the Drilling Contractor and rig number be identified.

The API number assigned to this well is 43-019-30352.

Very truly yours,

CLEON B. FEIGHT
Director

ATTACHMENT 2-A

THE ANCHUTZ CORP.
 #1 FEDERAL 769
 SEC 19 T195 R21E
 LEASE # U-149769
 GRAND COUNTY, UTAH
 REP. GEORGE FENTRESS
 CONTR. J. D. WILSON
 BLM. LARON ROBISON
 USGS. J.M. DENNIS

- ENHANCES
- NO IMPACT
- MINOR IMPACT
- MAJOR IMPACT

	Construction				Pollution			Drilling Production				Transport Operations			Accidents		Other		
	Roads, bridges, airports	Transmission lines, pipelines	Dams & impoundments	Others (pump stations, compressor stations, etc.)	Burning, noise, junk disposal	Liquid effluent discharge	Subsurface disposal	Others (toxic gases, noxious gas, etc.)	Well drilling	Fluid removal (Prod. wells, facilities)	Secondary Recovery	Noise or obstruction of scenic views	Mineral processing (ext. facilities)	Others	Trucks	Pipelines		Others	Spills and leaks
Forestry	✓	✓	✓		✓	✓		✓	✓					✓	✓			✓	✓
Grazing	✓	✓	✓		✓				✓					✓	✓			✓	✓
Wilderness	✓	✓							✓					✓				✓	✓
Agriculture	N/A																		
Residential-Commercial	N/A																		
Mineral Extraction	✓	0	0						0					0				✓	✓
Recreation	✓	0	✓		✓			✓	✓					✓	✓			✓	✓
Scenic Views	✓	✓	✓		✓	✓		✓	✓					✓	✓			✓	✓
Parks, Reserves, Monuments	N/A																		
Historical Sites	N/A																		
Unique Physical Features	N/A																		
Birds	✓	✓	✓		✓	✓		✓	✓			✓		✓				✓	✓
Land Animals	✓	✓	✓		✓	✓		✓	✓			✓		✓				✓	✓
Fish	N/A																		
Endangered Species	NONE KNOWN																		
Trees, Grass, Etc.	✓	✓	✓		✓	✓		✓	✓					✓				✓	✓
Surface Water	✓	✓	✓		✓	✓		✓	✓					✓	✓			✓	✓
Underground Water	✓					✓		✓	✓										
Air Quality	✓	✓	✓		✓			✓	✓					✓	✓			✓	✓
Erosion	✓	✓	✓		✓			✓	✓					✓	✓			✓	✓
Other																			
Effect On Local Economy	✓	0	✓		✓			0						0	0			✓	✓
Safety & Health	✓	✓	✓		✓			✓	✓			✓		✓	✓			✓	✓
Others	CC. tree Loc moved 5' So. Ag. Dept. Doama BLM - Blank w/o notes																		

Lease U-149769

Well No. & Location 1 FEDERAL 769 SEC. 19 T19S R21E
GRAND COUNTY, UTAH

ENVIRONMENTAL IMPACT ANALYSIS - ATTACHMENT 2-B

1. Proposed Action

PROPOSES TO DRILL AN OIL AND GAS TEST WELL WITH ROTARY TOOLS TO ABOUT 5550 FT. TD, 2) TO CONSTRUCT A DRILL PAD 150 FT. X 220 FT. AND A RESERVE PIT 180 FT. X 40 FT. 3) TO CONSTRUCT FT. X 5 MILES ACCESS ROAD AND UPGRADE FT. X MILES ACCESS ROAD FROM AN EXISTING AND IMPROVED ROAD.

2. Location and Natural Setting (existing environmental situation)

THIS LOCATION IS IN A DRY WASH - REFER TO # 11 OF THE 12 POINT SURFACE USE PLAN.

THE LOCATION WAS MOVED 50' TO THE SOUTH AND ROTATED APPROX. 15° TO THE EAST. THIS WILL MINIMIZE THE AMOUNT OF GROUND DISTURBANCE AND PREVENT REROUTING OF THE STREAM BED.

BLM REQUESTED, THEY BE NOTIFIED BEFORE CONSTRUCTION BEGAN SO THEY CAN HAVE A MAN PRESENT DURING THE BUILDING OF THE ROAD AND DRILL PAD. -

THE RESERVE PIT WILL BE MADE LONGER AND NARROWER TO MINIMIZE DISTURBANCE OF STREAM BED.

ALL TRASH WILL BE CONTAINED IN A PIT AT LEAST 16' DEEP ENCLOSED WITH WIRE MESH -

3. Effects on Environment by Proposed Action (potential impact)

1) EXHAUST EMISSIONS FROM THE DRILLING RIG POWER UNITS AND SUPPORT TRAFFIC ENGINES WOULD ADD MINOR POLLUTION TO THE ATMOSPHERE IN THE LOCAL VICINITY.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR VISUAL IMPACTS FOR A SHORT TERM DUE TO OPERATIONAL EQUIPMENT AND SURFACE DISTURBANCE.

4) TEMPORARY DISTURBANCE OF WILDLIFE AND LIVESTOCK.

5) MINOR DISTRACTION FROM AESTHETICS FOR SHORT TERM.

6)

4. Alternatives to the Proposed Action

1) NOT APPROVING THE PROPOSED PERMIT -- THE OIL AND GAS LEASE GRANTS THE LESSEE EXCLUSIVE RIGHT TO DRILL FOR, MINE, EXTRACT, REMOVE AND DISPOSE OF ALL OIL AND GAS DEPOSITS.

2) DENY THE PROPOSED PERMIT AND SUGGEST AN ALTERNATE LOCATION TO MINIMIZE ENVIRONMENTAL IMPACTS.

3) NO ALTERNATE LOCATION could be found to justify this action.

5. Adverse Environmental Effects Which Cannot Be Avoided

1) MINOR AIR POLLUTION DUE TO EXHAUST EMISSIONS FROM RIG ENGINES AND SUPPORT TRAFFIC ENGINES.

2) MINOR INDUCED AND ACCELERATED EROSION POTENTIAL DUE TO SURFACE DISTURBANCE AND SUPPORT TRAFFIC USE.

3) MINOR AND TEMPORARY DISTURBANCE OF WILDLIFE.

4) TEMPORARY DISTURBANCE OF LIVESTOCK.

5) MINOR AND SHORT-TERM VISUAL IMPACTS.

6)

6. Determination

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

Date Inspected 4-14-77

Inspector [Signature]

[Signature]
U.S. Geological Survey,
Conservation Division
Salt Lake City District
Salt Lake City, Utah

U.S. GEOLOGICAL SURVEY, CONSERVATION DIVISION

FROM: DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO: DISTRICT ENGINEER, SALT LAKE CITY, UTAH

Well	Location	Lease No.
Anschutz Corp., Inc. #1 Fed.-769	1630' Fw1, ¹⁴⁹⁰ 1540' FSL, Sec. 19, T19S, R21E SLM, Grand Co., Utah, Gr. El. 6514'.	U-0149769
<p>1. Stratigraphy and Potential Oil and Gas Horizons. Well will spud in stream alluvium overlying the Wasatch or Mesaverde Formations (Exhibit B, #1) and test the underlying Dakota, Morrison, and Entrada Formations for gas potential to a proposed T.D. of 5550'. See Exhibit B, #1, 2, and 3. Anschutz #2 Fed.-773 (Gr. El. 6281), Sec. 29, same twp., reports the following tops: Mancos 285'; Dakota 3802'; Morrison 4035'; Salt Wash 4250'; Summerville 4505'; Entrada 4596'; T.D. 4775'. D&A.</p> <p>2. Fresh Water Sands. WRD report: see attachment.</p> <p>3. Other Mineral Bearing Formations. (Coal, Oil Shale, Potash, Etc.) Prospectively valuable for coal. Coal may be found in the Dakota, Mesaverde (if present) and Morrison Formations. If the Mesaverde Formation is present, any coal penetrated should be protected. Dakota coal would likely be discontinuous, lenticular and subeconomic. Morrison coal may be more continuous but still subeconomic at present because of depth.</p> <p>4. Possible Lost Circulation Zones. Unknown</p> <p>5. Other Horizons Which May Need Special Mud, Casing, or Cementing Programs. Unknown. Protect any fresh water aquifers penetrated.</p> <p>6. Possible Abnormal Pressure Zones and Temperature Gradients. Unknown. See Exhibit B, #9.</p> <p>7. Competency of Beds at Proposed Casing Setting Points. Probably adequate. Alluvium will cave.</p> <p>8. Additional Logs or Samples Needed. Logging program adequate as outlined on APD. See Exhibit B, #8. Nuclear logs through the Morrison may be helpful for U-V.</p> <p>9. References and Remarks USGS Prof. Paper 548.</p>		
Date: 4-11-77		Signed: <i>Thomas R. Assay</i>

State Oil

Depths of fresh-water zones:

The Anschutz Corporation, Inc., Bull Canyon #1, Wildcat
2,160' fel, 1,487' fsl, sec. 19, T.19 S., R.21 E., SLB&M, Grand Co., Utah
Elev. 6,420 ft, proposed depth 5,000 ft.

Stratigraphic units	Tops, approx.	Quality of water
Mesaverde Grp	surface	fresh/saline
Mancos Sh	2,000 ft (?)	saline
Dakota Ss	4,620 ft	saline
Morrison Fm	4,710 ft	saline/brine
Entrada Ss	5,400 ft	brine

There are no water wells of record in the vicinity of the proposed test. Previous oil tests in the area found brackish or saline water at depths greater than about 300 feet. Useable water for stock (sheep) may be found as deep as 500 feet.

USGS - WRD
8-26-71

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424

5. LEASE DESIGNATION AND SERIAL NO.

U-0149769

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

East Willow Creek

8. FARM OR LEASE NAME

Federal 769

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Wildcat

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

Sec. 19-T. 19S-R. 21E

12. COUNTY OR PARISH 13. STATE

Grand

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 Dry Hole

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
1110 Denver Club Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)
At surface 1630' FWL, 1490' FSL

14. PERMIT NO. - API No.
43-019-30352

15. ELEVATIONS (Show whether DF, RT, GR, etc.)
6514 GL 6523 KB

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 the proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and some pertinent to this work.)*

This well was drilled to a total depth of 5400' KB in the Entrada Formation. Electric logs were run to total depth. No potential pay zones were indicated on the logs. No cores were taken. This well has been abandoned with plugs set as follows:

Depth	Cement
5400'-5300'	35 sx
4850'-4750'	35 sx
4550'-4400'	52 sx
1600'-1500'	35 sx
Surface w/marker	10 sx

Abandonment of this well was verbally approved by E. W. Guynn on 5-2-78

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

SIGNED Peter B. Doty TITLE Operations Coordinator

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____

CONDITIONS OF APPROVAL, IF ANY:

DATE July 12, 1978

Instructions

General: This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 17: Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

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 Hole		5. LEASE DESIGNATION AND SERIAL NO. U-0149769
2. NAME OF OPERATOR The Anschutz Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME P
3. ADDRESS OF OPERATOR 1110 Denver Club Building, Denver, Colorado 80202		7. UNIT AGREEMENT NAME East Willow Creek
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 1630' FWL, 1490' FSL		8. FARM OR LEASE NAME Federal 769
14. PERMIT NO. - API No. 43-019-30352		9. WELL NO. 1
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 6514 GL 6523 KB		10. FIELD AND POOL, OR WILDCAT Wildcat
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 19-T, 19S-R, 21E
		12. COUNTY OR PARISH 13. STATE Grand 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.)*

This well was drilled to a total depth of 5400' KB in the Entrada Formation. Electric logs were run to total depth. No potential pay zones were indicated on the logs. No cores were taken. This well has been abandoned with plugs set as follows:

Depth	Cement
5400'-5300'	35 sx
4850'-4750'	35 sx
4550'-4400'	52 sx
1600'-1500'	35 sx
Surface w/marker	10 sx

Abandonment of this well was verbally approved by E. W. Gynn on 5-2-78

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

SIGNED Peter B. Doty TITLE Operations Coordinator DATE July 12, 1978

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

Form approved,
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

5. LEASE DESIGNATION AND SERIAL NO.
U-0149769

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME
East Willow Creek

8. FARM OR LEASE NAME
Federal 769

9. WELL NO.
1

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC. T., R., M., OR BLOCK AND SURVEY OR AREA
Sec. 19, T.19S-R.21E.

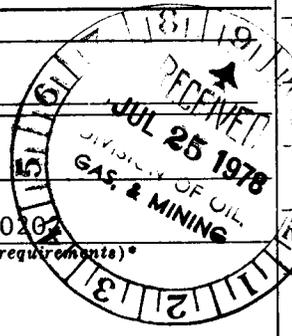
1a. TYPE OF WELL: OIL WELL GAS WELL DRY Other _____

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

2. NAME OF OPERATOR
The Anschutz Corporation

3. ADDRESS OF OPERATOR
1110 Denver Club Building, Denver, Colorado 80202

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)*
At surface 1630' FWL, 1490' FSL
At top prod. interval reported below
At total depth



14. PERMIT NO. **API 43-019-30352** DATE ISSUED **4-19-77**

12. COUNTY OR PARISH **Grand** 13. STATE **Utah**

15. DATE SPUNDED **4-7-78** 16. DATE T.D. REACHED **5-2-78** 17. DATE COMPL. (Ready to prod.) **P & A 5-3-78** 18. ELEVATIONS (DF, RKB, RT, GR, ETC.)* **6514 GL, 6523 KB** 19. ELEV. CASINGHEAD **6514'**

20. TOTAL DEPTH, MD & TVD **5400'** 21. PLUG, BACK T.D., MD & TVD _____ 22. IF MULTIPLE COMPL., HOW MANY* _____ 23. INTERVALS DRILLED BY **Surface-TD** ROTARY TOOLS _____ CABLE TOOLS **None**

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*
None

25. WAS DIRECTIONAL SURVEY MADE
Yes

26. TYPE ELECTRIC AND OTHER LOGS RUN
DIL, CNL/FDL, BGT

27. WAS WELL CORED
No

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

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#	1600		Circulated to surface	

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)

31. PERFORATION RECORD (Interval, size and number)

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

33.* PRODUCTION

DATE FIRST PRODUCTION _____ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) _____ WELL STATUS (Producing or shut-in) _____

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
LOGS

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

SIGNED *R B De* TITLE OPERATIONS COORDINATOR DATE 7-18-78

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

