

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS WELL LOG ELECTRIC LOGS FILE X WATER SANDS LOCATION INSPECTED OIL SUB REPORT/abd

DATE FILED 6-3-82
 LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-40146 INDIAN

DRILLING APPROVED: 6-11-82

SUDDEN IN:
 COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA 3-8-84 Well never drilled

FIELD: WILDCAT 3/86

UNIT:

COUNTY: KANE

WELL NO KAIBAB FEDERAL #1-34 API NO. 43-025-30019

LOCATION 2000' FT. FROM XX (S) LINE. 2000' FT. FROM (E) X LINE. NW SE 1/4 - 1/4 SEC. 34

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
41S	2W	34	ROCKY MOUNTAIN EXPLORATIO				



THOMAS E. WOLTER & ASSOCIATES, INC.
PETROLEUM CONSULTANTS

June 3, 1982

United States Geological Survey
Oil & Gas Division
1745 W. 1700 South, Room 2000
Salt Lake City, UT 84104
ATTN: Mr. Ed Gynn

RE: Rocky Mountain Exploration Company
Federal 1-34
NWSE Sec. 34 T41S, R2W
Kane County, Utah

Gentlemen:

Enclosed please find Rocky Mountain Exploration's Application for Permit to Drill the subject well, along with it's appropriate plans, as follows:

- 1) Form 9-331, Application for Permit to Drill, submitted in Triplicate.
- 2) Drilling Prognosis.
- 3) 10 Point Program complete with exhibits.
- 4) 13 Point Program complete with exhibits.

If any additional information is required to expedite the enclosed application, please advise. Your timely response to this application would be greatly appreciated.

Sincerely,

Thomas E. Wolter
THOMAS E. WOLTER

RECEIVED
MAY 09 1982

TEW:cc
Enclosure
cc: RMEC
State of Utah
file

**DIVISION OF
OIL, GAS & MINING**

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
 Rocky Mountain Exploration Company 801-355-2380

3. ADDRESS OF OPERATOR
 115 South Main Street, Suite 420 SLC UT 84111

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)
 At surface Federal 1-34
 Section 34 T41S R2W, Kane County, Utah-2000' FEL & 2000' FSL. NWSE
 At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 34 1/2 miles east of Kanab, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 2000'

16. NO. OF ACRES IN LEASE
 1920 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL
 40 acres

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

19. PROPOSED DEPTH
 4,750'

20. ROTARY OR CABLE TOOLS
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 5355' ground level

22. APPROX. DATE WORK WILL START*
 July 1, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	16"	.5" W.T.	50'	Cement to surface
12 1/2"	9-5/8"	36#/ft.	950'	Cement to surface
8-3/4"	5 1/2"	17#/ft.	4750'	To be determined

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

DATE: 6/14/82
BY: [Signature]

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

24. SIGNED [Signature] DAVID ALLIN TITLE Vice Pres./Exploration DATE 6-3-82

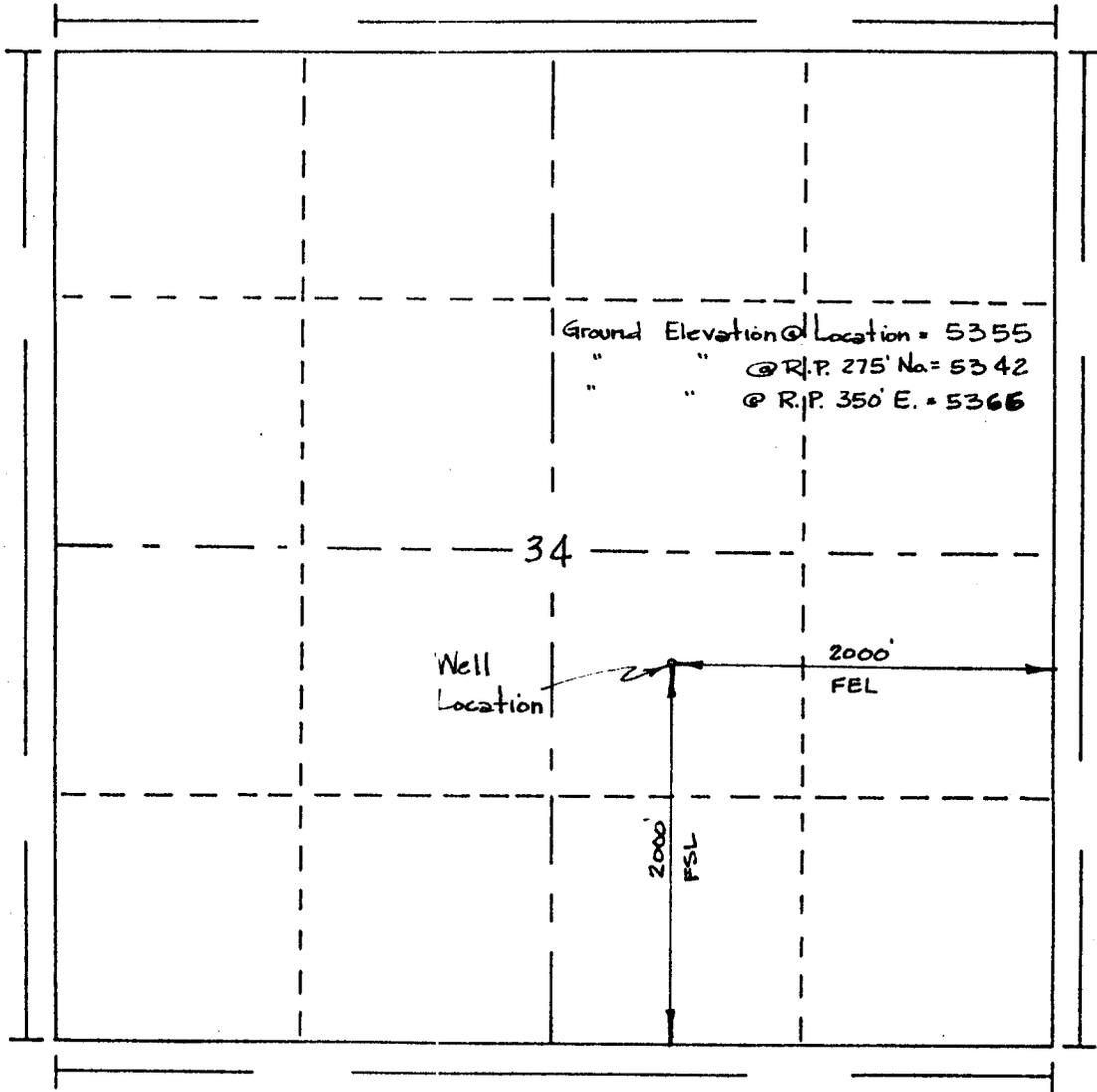
(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

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



R. 2 W.



T. 41 S.

Scale... 1" = 1000'

Powers Elevation of Denver, Colorado has in accordance with a request from TONY CUMMINGS for ROCKY MOUNTAIN EXPLORATION COMPANY determined the location of KAIBAB FEDERAL #1 to be 2000' FSL & 2000' FEL of Section 34 Township 41 South Range 2 WEST of the SALT LAKE Meridian KANE County, UTAH

I hereby certify that this plat is an accurate representation of a correct survey showing the location of

Date: MAY 15, 1982

T. Talbot
 Licensed Land Surveyor No. 2711
 State of UTAH

DRILLING PROGNOSIS

Rocky Mountain Exploration Company
Federal 1-34
Sec. 34 T41S R2W
Kane County, Utah

I. Location

NW SE Sec. 34 T41S R2W, Kane County, Utah
2000' FEL & 2000' FSL
Ground Elevation 5355' ungraded

II. General Information

The primary objective will be the Queantoweap and Redwall formations. The top of the objective will be approximately 1460' and 2693' respectively. Normal to subnormal pressures are anticipated throughout the well, loss circulation will be a problem.

III. Drilling Prognosis

Pre-Spud

1. Prepare location.
2. Drill conductor hold and set 16" conductor pipe at $\pm 50'$.
3. Drill rat hole, mouse hole, and sanitation holes with rat hole digger prior to moving in drilling rig.
4. Move in and rig up drilling rig.
5. Mix spud mud 8 hours prior to spudding.
6. Notify state, BLM, and USGS prior to spudding.

Surface Hole

1. Drill a 12 $\frac{1}{4}$ " hole to $\pm 950'$ KB. through Hermit FM.
 - a) BHA - 12 $\frac{1}{4}$ " bit, near bit reamer, stabilizer, short drill collar, 3 pt. string reamer, 1 drill collar, IBS, drill collars, x-over, and drill pipe.
 - b) Survey surface hole every 60'.
 - c) Advise immediately if deviation is over 2°.
2. Strap out of hole prior to running casing.
3. Run and cement 9-5/8" casing as per cementing recommendation.

- a) Run and cement pedal basket at $\pm 50'$.
 - b) Hold casing in full tension for 8 hrs. while WOC or until firm in 9-5/8" X 16" annulus.
5. Cut off 9-5/8" casing and install slip-on weld casing head.
 6. Nipple up and test 11" - 5000 psi blowout preventor.

8-3/4" Hole

1. Test 9-5/8" casing with 1000 psi.
2. Drill float equipment and 10' of formation with 8-3/4" bit.
3. Test shoe to 10.8#/gal. mud equivalent.
4. Drill sufficient new hole to bury BHA. P.U. BHA.
5. BHA: 8-3/4" bit, shock sub, 2 DC, 6 pt. reamer, 1 DC, 3 pt. reamer, DC, drilling jars, 3 DC.
6. Survey every 100 feet.
7. Mud loggers to be on location after drilling out below surface.
8. Strap out of hole prior to logging.
9. Run 5 1/2" casing or P&A as per Drilling Engineer's instructions.

NOTES:

1. Gauge stabilizers and bit on all bit trips.
2. Have derrick man check mud weight and viscosity every 15 minutes and record on geolograph.
3. Keep two pipe books on all tubulars.
4. Use wear bushings while drilling.
5. Inspect BHA each 200 rotating hours.
6. Notify proper officials on all BOP tests.

5. Run pilot test on water and recommended cement to determine pumping time and compressive strengths.

Procedure for 5½" Production Casing

1. Land casing and circulate bottoms up.
2. Consult drilling engineer after logging to determine cement volumes.
3. Scratches and centralizers to be determined after logging.
4. Pilot tests to be run prior to cementing, as above.

IX. BOP Equipment

Use 11" - 5000 psi blind and pipe rams with 3,000 psi Hydril. All lines, manifold and choke to be tested to 5000 psi. Choke to be operational prior to drilling out from surface.

BOP to be tested after nipling up and every week thereafter. Actuate rams on all trips. Safety drills should be held periodically to insure all men understand their responsibilities.

X. Completion

A completion prognosis will be furnished based on evaluation of well logs.

XI. Personnel

Thomas E. Wolter (Consultant)	(801) 531-0632 (office)
"	(801) 363-1462 (home)
David Allin	(801) 355-2380 (office)
"	(801) 943-4126 (home)
Tony Cummings	(801) 355-2380 (office)
"	(801) 363-3735 (home)

10 POINT PLAN

Rocky Mountain Exploration Company
Federal 1-34
Sec. 34 T41S R2W
Kane County, Utah

1. Geological name of the surface formation: Moenkopi

2. Estimated tops of geological markers: See Attachment I.

3. Estimated depths anticipated to encounter water, oil, gas or other mineral bearing formations:

	Surface
<u>Moenkopi - water</u>	<u>Surface</u>
<u>Kaibab - water</u>	<u>291'</u>
<u>Queantoweap - oil</u>	<u>1460'</u>
<u>Redwall - oil</u>	<u>2693'</u>
<u>McCracken- oil</u>	<u>3502'</u>
<u>Muav - oil</u>	<u>3607'</u>

4. Casing program: See Item 23, Form 9-331 C

10 Point Plan

5. Blowout Preventors: Hydraulic double rams with a 5000 psi rating BOP. One set of pipe rams will be provided for each size drill pipe in the hole. One set of blind rams will be installed at all times. Fill lines, kill lines, and choke relief line will be 3", 5000 psi rated. BOP will be tested daily and noted on IADC daily drilling report. After running surface casing and prior to drilling out, BOP will be tested to full working pressure. Thereafter, the BOP will be checked daily for mechanical operations only and will be noted on the IADC Report.
See Exhibit "A".

6. Mud Program:

<u>Approximate Interval</u>	<u>Type Mud</u>	<u>Weight #/gal.</u>	<u>Viscosity</u>	<u>W.L.</u>
<u>0 - 950'</u>	<u>spud</u>	<u>8.8</u>	<u>45</u>	<u>N.C</u>
<u>950' - TD</u>	<u>low sol.</u>	<u>8.6 - 8.8</u>	<u>35 - 45</u>	<u>8 - 10</u>
	<u>lightly dispersed</u>			

7. Auxillary Equipment:

- a. Kelly cock will be in use at all times.
 - b. Full opening stabbing valve will be present on floor at all times.
 - c. 3" - 5000 psi choke manifold with remote control choke will be on well.
- See Exhibit "A".

8. Testing Program: No cores are anticipated. Several drill stem tests will be run if necessary. Open hole logs will be DLL, Den-Neutron, BHCS.

9. Hazards: No abnormal pressures, temperatures, or poison gases are expected to be encountered.

10. The starting date is approximately July 1, 1982 depending on rig availability and should take 60 days to complete.

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

June 3, 1982
Date

David Allin
Name DAVID ALLIN
Vice President/Exploration
Title
Rocky Mountain Exploration Company
Company

ATTACHMENT I

ROCKY MOUNTAIN EXPLORATION COMPANY

420 PRUDENTIAL FEDERAL SAVINGS BLDG.

115 SOUTH MAIN

SALT LAKE CITY, UTAH 84111

801 355-2380

Rocky Mountain Exploration Company 1-34 Kaibab Federal
 NW/4SE/4 Sec. 34, T.41S., R.2W.
 Kane County, Utah
 Est. Elevation 5365' A.M.S. Ground

TABLE OF PROJECTED TOPS

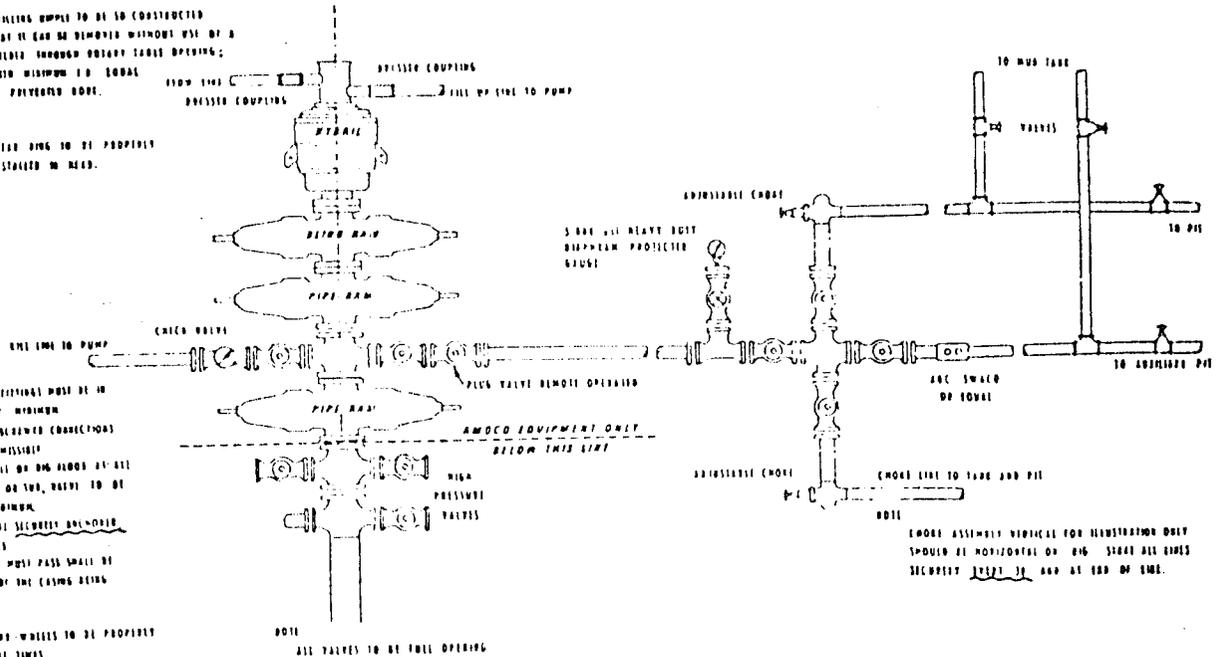
System	Unit	Dominant Lithology Type	True Thickness	Dip Corrected Thickness	Predicted Top
Tr	Moenkopi	Siltstone, Thin limes	290	291	Surface
P	Kaibab	Dolomite	117	117	291
P	White Rim	Sandstone	140	140	408
P	Toroweap	Dolomite, Anhydrite, Sandstone	365	366	548
P	Hermit	Siltstone	545	546	914
P	Queantoweap	Sandstone	918	919	1460
IP	Callville & Molas	Sandstone, Limestone, Shale	314	314	2379
M	Redwall	Limestone	733	734	2693
D	Elbert	Dolomite	75	75	3427
D	McCracken	Sandstone	105	105	3502
E	Muav	Limestone	1120	1122	3607
E	Bright Angel	Siltstone	322	323	4729

Minimum test required by Union Texas Petroleum to earn rights to U-40146 is 300' into the Muav. Proposed A.F.E. depth will be 4,750 to Bright Angel.

The anticipated zones of lost circulation are the Kaibab to cavernous porosity, Toroweap to leached evaporite zones and Redwall to cavernous porosity. Surface casing should be landed in the top of the Hermit below 914'.

EXHIBIT BOP 8000
MINIMUM BLOW-OUT PREVENTER REQUIREMENTS
5,000 psi W.P.

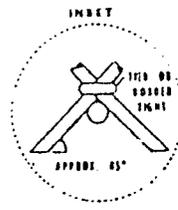
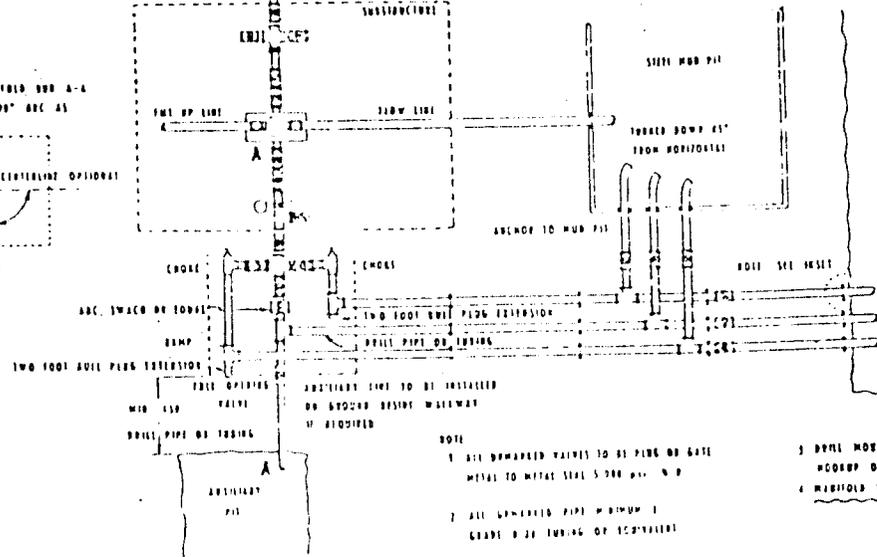
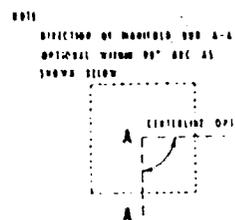
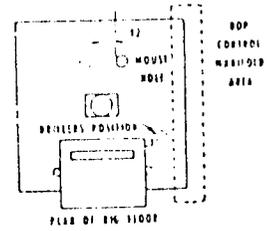
- NOTE**
- 1 DRILLING SUPPLY TO BE SO CONSTRUCTED THAT IT CAN BE REMOVED WITHOUT USE OF A WELDER THROUGH DIRECT LINE OPENING.
 - 2 WIRE ROPS TO BE PROPERLY INSTALLED IN AREA.



- NOTE**
- 1 BLOW OUT PREVENTER AND ALL FITTINGS MUST BE IN GOOD CONDITION 5,000 psi W.P. MINIMUM
 - 2 ALL FITTINGS TO BE FLANGED SECURED CONNECTIONS DOWNSTREAM FROM CHOKES PERMISSIBLE
 - 3 SAFETY VALVES MUST BE AVAILABLE ON BOP FLOOR AT ALL TIMES WITH PROPER CONNECTION OR TWO VALVES TO BE SHUT DOWN 5,000 psi W.P. MINIMUM
 - 4 ALL CHOKES AND ONE LINE TO BE SECURELY ANCHORED ESPECIALLY ENDS OF CHOKES LINES
 - 5 EQUIPMENT THROUGH WHICH DRILL MUST PASS SHALL BE AS LARGE AS INSIDE DIAMETER OF THE CASING BEING DRILLED THROUGH
 - 6 BEST COCK ON BELLY
 - 7 EXTENSION WRENCHES AND WIRE WHEELS TO BE PROPERLY INSTALLED AND BRACED AT ALL TIMES
 - 8 ONE FLOOR BLOW-OUT PREVENTER CONTROL TO BE LOCATED AS CLOSE TO DRILLERS POSITION AS FEASIBLE
 - 9 BLOW-OUT PREVENTER CLOSING EQUIPMENT TO INCLUDE AN GASOLIN ACCUMULATOR TWO INDEPENDENT SOURCES OF PUMP POWER ON EACH CLOSING UNIT INSTALLATION.
 - 10 MEET ALL IADC SPECIFICATIONS

NOTE
 ALL VALVES TO BE FULL OPENING

NOTE
 CHOKES ASSEMBLY VERTICAL FOR REGISTRATION ONLY SPACED AT HORIZONTAL OR 216 30000 ALL LINES SECURELY TIGHTENED AND AT END OF LINE.



- NOTE**
- 1 ALL WRENCHER VALVES TO BE PINE OR GATE METAL TO METAL SEAL 5,000 psi W.P.
 - 2 ALL WRENCHER PIPE MINIMUM 1 GAUGE 2 1/2 INCH O.D. EQUIVALENT

- 3 DRILL MOUSE HOLE 17" DIA CENTER IN MIDDLE OF CHOKES AND MARKED AS BOP DAMP
- 4 MARKED BOP A-A TO BE STRAIGHT THROUGH

EXHIBIT "A"
5000' psi W.P. Blowout Preventor
Minimum BOP & Choke Requirement

1 3 P O I N T S U R F A C E U S E P L A N

Rocky Mountain Exploration Company
Federal 1-34
Sec. 34 T41S R2W
Kane County, Utah

1. Existing Roads

a. Proposed Wellsite Location: As surveyed by Powers Elevation located
2000' FEL and 2000' FSL, Section 34, T41S, R2W, SLM, Kane County, Utah.

See Exhibit I

b. Planned Access Route:

From Kanab, Utah go approximately 32 miles east on the Paria Road (HW 259).
Take left hand fork onto dirt road 2½ miles to location. Location will be
on right hand side of road.

c. Access Road Labeled:

See Exhibit II: Red - Existing Road

Blue - New access road to be constructed.

d. If exploratory well, all existing roads within 3 miles:

See Exhibit II

1. e. If development well, all existing roads within a one mile radius of well-site: N/A

f. Plans for improvement and/or maintenance of existing roads:

The existing roads will require minor improvements. However, these roads along with the new access road may require periodic grading to return the road surface to a coarse section necessary for proper drainage.

2. Planned Access Route

Route Location: The planned new access route was selected to provide the shortest distance to the wellsite with acceptable grades from the main connector road. The new access road will be approximately 300' from existing improved road. A temporary access will be built initially; if the well is productive, the temporary road will be improved as follows:

(1) Width: the average dirt width will be 20 feet. The average traveled surface width will be 20 feet. Road construction will be in accordance with typical roadways requested by the US Bureau of Land Management.

(2) Maximum Grades: The maximum grade allowed will be 5°.

(3) Turnouts: Not required.

(4) Drainage Design: Prior to construction of the new access road, the brush and topsoil will be windrowed to each side of the alignment outside construction limits. The subgrade surface will be a minimum elevation of one foot above ditch grade. The road surface will be center crowned and the inslopes will have a maximum slope of 3:1 and fill slopes will be a maximum of 2:1.

3. Location of Existing Wells

The proposed well is an exploration well. There are no known wells (water, abandoned, temporarily abandoned, disposal and drilling) within a 2 mile radius.

4. Location of Existing and/or Proposed Facilities

a. Existing facilities within one mile radius owned or controlled by operator:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None

b. New Facilities in Event of Production:

- (1) New facilities: wellhead, condensate tank, production separator, meter house, all constructed on disturbed ground.
- (2) Dimension of the facilities are shown on Exhibit III.
- (3) Construction will be to strip the topsoil and level the drilling pad. Construction methods will be employed to assure that no drainage flows are impounded to prevent the loss of any hydrocarbons from the site to facilitate rapid clean up and recovery of the loss.
- (4) Protective measures to protect wildlife and livestock: Open pits will be flagged overhead and fenced.

4. c. Plan for rehabilitation of disturbed areas no longer needed for operations after construction is completed:

Upon completion of well, areas required for continued use will be graded to provide drainage and minimize erosion. Those areas not required for continued use will be graded to blend with the surrounding topography. Topsoil will be replaced on those areas and seeded as per BLM specifications.

5. Location and Type of Water Supply

- a. The water source has not yet been determined but will be from a legal private source.
- b. Water transportation system: water will be hauled in trucks from an undetermined source.
- c. Water wells: None

6. Source of Construction Materials

- a. Materials: Construction materials will consist of soil encountered within the boundaries of the proposed site. Topsoil will be stripped to a depth of 6 inches and stockpiled in an area that does not interfere with operations.
- b. Land Ownership: The planned site and access roads lie on Federal land administered by the U.S. Department of the Interior, U.S. Bureau of Land Management.
- c. Materials Foreign to Site: N/A
- d. Access road shown under Item 11.

7. Methods of Handling Waste Materials

a. Cuttings: Will be contained within the limits of the reserve pit.

b. Drilling Fluids: Will be retained in the reserve pit.

c. Produced Fluids: No substantial amount of water is expected. The amount of hydrocarbon that may be produced while treating will be retained in the reserve pit. Previous to clean up operations the hydrocarbon materials will be skimmed or removed as the situation would dictate.

d. Sewage: Sanitary facilities will consist of at least one chemical toilet. Waste will be contained in a pit and backfilled immediately following the drilling operations or removed to a sanitary disposal facility.

e. Garbage: A burn cage will be constructed and fenced with small mesh wire. The refuse will be removed from the area and taken to a landfill.

f. Clean Up Well Site: After drilling, the surface of the drill pad will be cleaned and graded to accommodate a completion rig. The "mouse hole and rat hole" will be backfilled to prevent injury and hazard for livestock. Reserve pit will be fenced until dry and it can be backfilled and restored to natural terrain.

8. Ancillary Facilities

None required.

9. Well-site Layout

- (1) Well location is relatively flat and requires minimal cuts and fills.
Any cuts and fills needed will be determined at on-site inspection.
Surface soil will be stock piled on the north side of location, 12"
high.
- (2) Location of Pits: See Exhibit IV.
- (3) Rig orientation: See Exhibit IV.
- (4) Pits will be unlined, unless otherwise required.

10. Plans For Restoration of Surface

a. Reserve Pit Cleanup: The pit will be fenced prior to rig release and shall
be maintained until clean up. Previous to backfill operation, any hydrocarbon
material on the pit surface will be removed. The fluids and solids contained
in the pit shall be backfilled with soil excavated from the site and with soil
adjacent to the reserve pit. The restored surface of the reserve pit will be
contoured to prevent impoundment of any drainage flows. The gradient of the
surface will be maintained to prevent sudden acceleration of drainage flows
which could cause contined erosion of the surface. Following backfill com-
pletion, topsoil removed from the disturbed areas will be replaced in a uniform
layer. The reserve pit will be seeded per BLM recommendation during the appro-
prate season following final restoration of the site.

b. Restoration Plans - Production Developed: The reserve pit will be back-
filled and restored as described under Item a. In addition, those disturbed
areas not required for production will be graded to blend with the surrounding
topography. Topsoil will be placed on these areas and seeded. The portion of
the drill pad required for production and turning areas will be graded to mini-
mize erosion and provide access to production facilities under inclement condi-
tions. Following final improvement and surfacing of that portion of new access
road, the topsoil windrowed to each side of the alignment will be placed on the
cut slopes. Following depletion and abandonment of the site, restoration pro-
cedures will be those that follow under Item C.

10. c. Restoration Plans - No Production Developed:

Of course, the reserve pit will be restored as described above. With no
production developed, the entire surface disturbed by construction of the
drilling pad will be restored to its natural terrain and reseeded per BLM
requirements.

11. Other Information

a. Surface Description: Semi arid, grassy land, flat land.

b. Other Surface Use Activities: Grazing

c. Proximity of Water, Dwelling, Historical Sites:

Townsite of Paria (ghost town) 4 miles to the northeast.

Operator's Representative

Field Personnel who can be contacted concerning compliance of this Surface Use Plan are as follows:

Rocky Mountain Exploration Company
Ste. 420, 115 South Main Street
Salt Lake City, UT 84111
ATTN: MR. DAVID ALLIN
(801) 355-2380 (Office)
(801) 943-4126 (Home)

Thomas E. Wolter & Assoc., Inc.
Ste. 211, 70 E. South Temple
Salt Lake City, UT 84111
ATTN: MR. THOMAS E. WOLTER
(801) 531-0632 (Office)
(801) 363-1462 (Home)

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions as they actually exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the proposed work performed by Rocky Mountain Exploration Company, and its contractors and sub-contractors will conform to this plan.

Date: June 2, 1982



DAVID ALLIN
Vice President/Exploration
Rocky Mountain Exploration Company

TELEGRAPH FLAT QUADRANGLE

UTAH-ARIZONA

15 MINUTE SERIES (TOPOGRAPHIC)

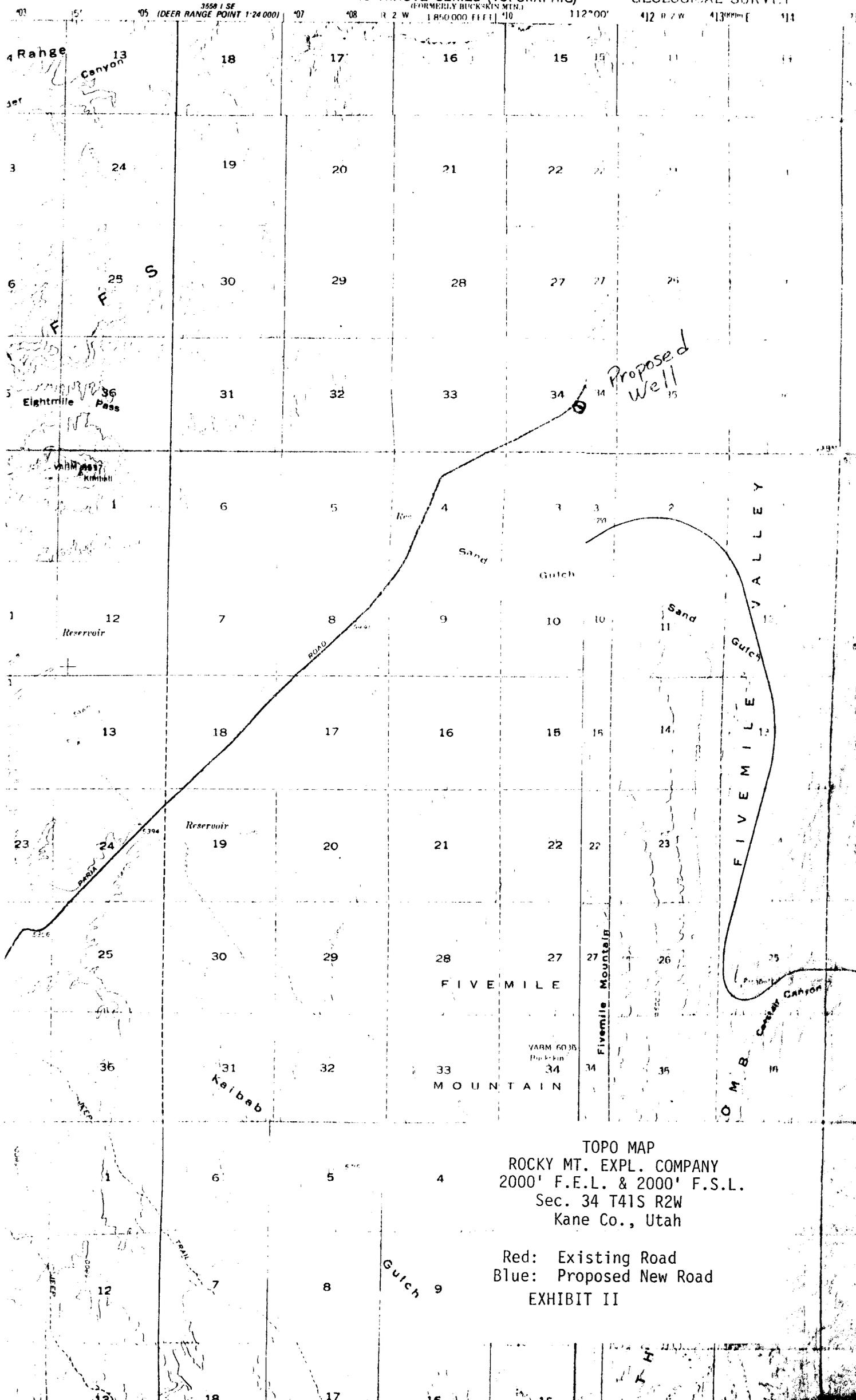
(FORMERLY BUCKSKIN MOUNTAIN)

1:850,000 (F.E.L.)

UNITED STATES

DEPARTMENT OF THE INTERIOR

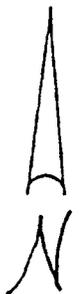
GEOLOGICAL SURVEY



Proposed Well

TOPO MAP
 ROCKY MT. EXPL. COMPANY
 2000' F.E.L. & 2000' F.S.L.
 Sec. 34 T41S R2W
 Kane Co., Utah

Red: Existing Road
 Blue: Proposed New Road
 EXHIBIT II



SCALE 1" = 9'

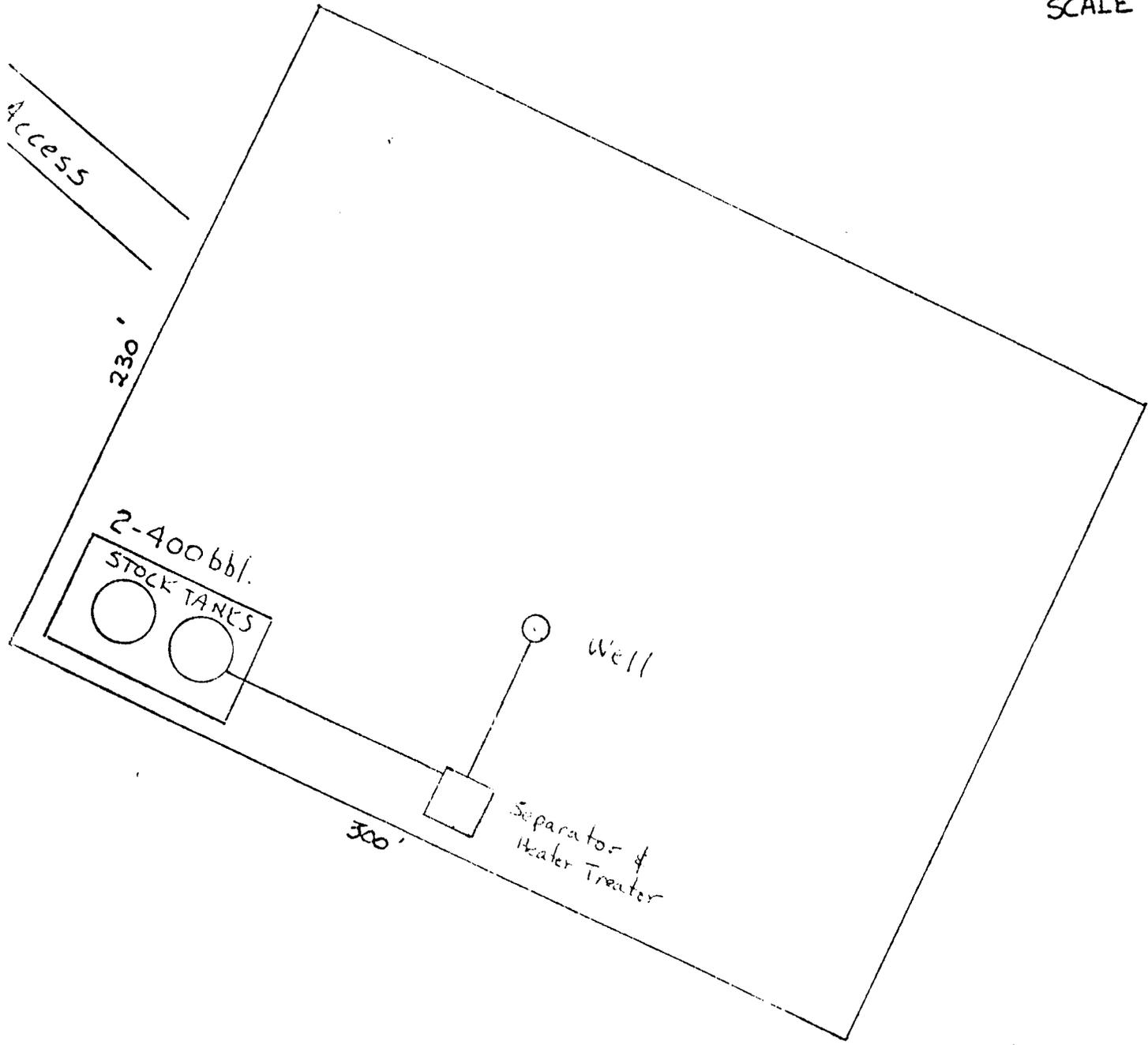
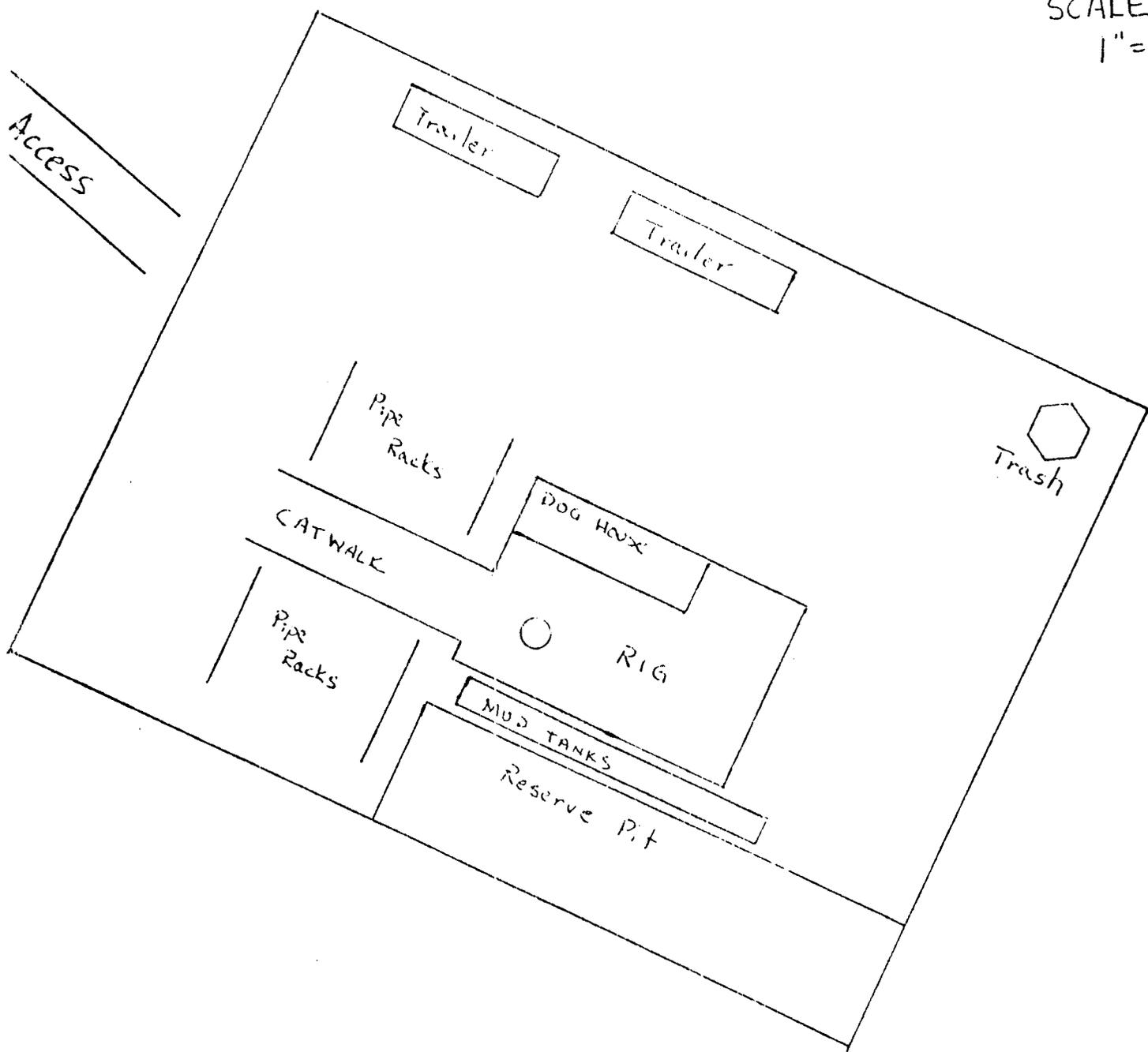


EXHIBIT III
Production Facilities



SCALE
1" = 50'



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MINERALS MANAGEMENT

5. LEASE DESIGNATION AND SERIAL NO.
U-40346 OPERATIONS
RECEIVED

6. IF INDIAN, ALEUTIC OR TRIBE NAME
N/A

7. UNIT AGREEMENT NAME
N/A

8. FARM OR LEASE NAME
Federal

9. WELL NO.
1-34 KAIBAB

10. FIELD AND POOL, OR WILDCAT
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 34 T41S R2W

12. COUNTY OR PARISH
Kane County

13. STATE
Utah

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
Rocky Mountain Exploration Company

3. ADDRESS OF OPERATOR
115 South Main Street, Suite 420

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface Federal 1-34
Section 34 T41S R2W, Kane County, Utah-2000' FEL & 2000' FSL.
At proposed prod. zone same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
3 1/2 miles east of Kanab, Utah

10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
2000'

16. NO. OF ACRES IN LEASE
1920 acres

17. NO. OF ACRES ASSIGNED TO THIS WELL
40 acres

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

19. PROPOSED DEPTH
4,750'

20. ROTARY OR CABLE TOOLS
Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
5355' ground level

22. APPROX. DATE WORK WILL START*
July 1, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	16"	.5" W.T.	50'	Cement to surface
12 1/4"	9-5/8"	36#/ft.	950'	Cement to surface
8-3/4"	5 1/2"	17#/ft.	4750'	To be determined

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

24. SIGNED *D. Hall* TITLE Vice Pres./Exploration DATE 6-3-82

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY *W.P. Martin* FOR E. W. GUYNN
TITLE DISTRICT OIL & GAS SUPERVISOR DATE _____

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

NOTICE OF APPROVAL

*See Instructions On Reverse Side

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

State Oil & Gas

United States Department of the Interior
 Minerals Management Service
 2000 Administration Building
 1745 West 1700 South
 Salt Lake City, Utah 84104-3884

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator ROCKY MOUNTAIN EXPLORATION COMPANY
 Project Type OIL WELL
 Project Location SEC. 34 T41S R2W
 Well No. 1-34 Lease No. U-40146
 Date Project Submitted 6-15-82

FIELD INSPECTION Date 7-14-82

Field Inspection Participants

<u>GEORGE J DIWACHAK</u>	<u>MMS</u>
<u>PETER KILBOURNE</u>	<u>BLM</u>
<u>DAVID ALLIN</u>	<u>ROCKY MT. EXPL. CO.</u>
<u>LINCOLN LYMAN</u>	<u>LYMAN CONST.</u>
_____	_____
_____	_____
_____	_____

I have reviewed the proposal in accordance with the categorical exclusion review guidelines. This proposal would not involve any significant effects and, therefore, does not represent an exception to the categorical exclusions.

AUG 12 1982
 Date Prepared

George J. Diwachak
 Environmental Scientist

I concur

AUG 16 1982
 Date

W. P. Mantua FOR E. W. GLYNN
 District Supervisor DISTRICT OIL & GAS SUPERVISOR

CATEGORICAL EXCLUSION REVIEW INFORMATION SOURCE

Criteria 516 DM 2.3.A	Federal/State Agency			Local and private correspondence (date)	Previous NEPA	Other studies and reports	Staff expertise	Onsite inspection (date)	Other
	Correspondence (date)	Phone check (date)	Meeting (date)						
Public health and safety	2 (8-3-82)						6	6 (7-14-82)	4, 6
Unique characteristics	2						6	6	4, 8
Environmentally controversial	2						6	6	4
Uncertain and unknown risks	2						6	6	4
Establishes precedents	2						6	6	
Cumulatively significant							6	6	1
National Register historic places									
Endangered/threatened species									
Violate Federal, State, local, tribal law							6	6	4

CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. RECOMMENDED STIPULATIONS
9. TELECON W P KILBOURNE, BLM, KANAB. (SEE MEMO W BLM STIPS)

RECOMMENDED STIPULATIONS

1. REGRADING OF THE EXISTING DIRT ACCESS ROAD (OLD PARRIA ROAD) SHALL NOT EXCEED 18 FEET OF TRAVEL SURFACE
2. THE SHARP BEND IN THE OLD PARRIA ROAD IN THE NW/4 SECTION 4, T. 43S., R. 2W. SHALL BE PROTECTED FROM EROSION BY APPLYING RIP RAP AT THE HEADS OF THE SMALL ARROYOS BELOW THE ROAD. RIP RAP MAY BE REMOVED FROM THE SHINARUMP COMMUNITY PIT AT \$.15 PER YARD FOR THIS PURPOSE.
3. RANGE GATES MAY BE LEFT OPEN, EXCEPT FOR THE MAIN GATE OF HIGHWAY 89, PROVIDED THAT WORK IS COMPLETED BY OCTOBER 30, 1982. IF ANY LATER WORK IS PERFORMED, GATES MUST BE KEPT CLOSED.
4. DRILL PAD SIZE SHALL NOT EXCEED 200 FEET BY 300 FEET
5. THE RESERVE PIT WILL BE CONSTRUCTED IN CUT MATERIAL ON THE UPHILL SIDE OF THE PAD.
6. TRASH WILL BE HAULED OFF SITE TO AN APPROPRIATE SANITARY LANDFILL.
7. SIX TO EIGHT INCHES OF TOPSOIL FROM THE PAD AREA WILL BE STOCKPILED ON THE EAST AND WEST SIDES

OF THE LOCATION

8. REHABILITATION OF THE SITE SHALL INCLUDE REPLACEMENT OF TOPSOIL, AND RESEEDING WITH 12 lbs. PER ACRE OF NORDAN CRESTED WHEAT GRASS (agcr) by BROADCASTING AND RAKING IN DURING THE FALL. ALTERNATELY, 6 lbs. PER ACRE OF SEED MAY BE DRILLED. THE ENTIRE SEEDED AREA WILL BE FENCED.
9. IF A CAMP IS TO BE USED ON SITE, A SEPTIC TANK WILL BE NECESSARY, OTHERWISE, PORTABLE FACILITIES WILL BE ACCEPTABLE. SEWAGE FROM SANITARY FACILITIES SHOULD BE REMOVED FROM THE SITE AND DISPOSED IN THE KANAB SEWER LAGOONS UNLESS APPROPRIATE SOIL CHARACTERISTICS ON SITE INDICATE THAT SEWAGE CAN BE BURIED. A COPY OF THE KANE COUNTY HEALTH DEPARTMENT REGULATIONS FOR WORK CAMPS IS INCLUDED FOR REFERENCE.
10. THE BLM REPRESENTATIVE, PETER KILBOURNE (801-644-2672) SHALL BE NOTIFIED 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND REHABILITATION OPERATIONS.



United States Department of the Interior

IN REPLY REFER TO
3100(403)

BUREAU OF LAND MANAGEMENT

Kanab Resource Area
320 North First East
Box 459, Kanab, Utah 84741
(801) 644-2672

August 3, 1982

Minerals Management Service
2000 Administration Building
1745 West 1700 South
Salt Lake City, Utah 84184

MINERALS MANAGEMENT
SERVICE
OIL & GAS OPERATIONS
RECEIVED
AUG 5 1982
SALT LAKE CITY, UTAH

Dear Mr. Guinn:

This letter is in response to the onsite conference held on 7/14/82 for the Rocky Mountain Exploration ADP in Sec. 34, T41S, R2W, SLB&M. Present were BLM Geologist Pete Kilbourne; George Diwachak MMs; David Allin of Rocky Mountain Exploration and contractor Lincoln Lyman.

Although it was found that the site had no serious development or reclamation problems, the BLM feels that the following stipulations should be adhered to as agreed by those present at the conference:

- ✓1) Regrading of the existing dirt access road (Old Paria Road) should not exceed 18 feet. *
- ✓2) The reserve pit will be dug into the hillside on the uphill side of the pad. *
- ✓3) Trash will be hauled off site to an appropriate sanitary facility. *
- ✓4) The pad size should not exceed 200 feet by 300 feet. *
- ✓5) After replacement of topsoil on the site, 12 lbs. per acre Nordan crested wheat grass (agcr) seed will be broadcast and raked in during the fall of 1982. Alternately 6 lbs. per acre will be drilled. The seeded area will be fenced. *is it?*
- ✓6) The sharp bend in the Old Paria road in the NW $\frac{1}{4}$ Sec. 4, T43S, R2W should be protected from erosion by the application of rip rap at the heads of the small arroyos below the road. Rip rap may be removed from the Shinarump community pit at \$.15 per yard for this purpose.
- ✓7) Range gates may be left open except for the main gate off highway 89, provided that work is completed by October 30, 1982. If later work is done gates must be kept closed.

8) Regarding the sanitary facilities, if workers are going to live on site a septic tank will be required. If workers will be living in town then a portable facility would be acceptable. In this case the waste could either be hauled to the Kanab Sewer Lagoons or buried on site if soil characteristics are appropriate.

A copy of the Kane County Health Department regulations for work camps is included to answer any questions on waste disposal and water requirements.

An application to install a septic tank has been forwarded to Rocky Mountain Exploration.

Sincerely,

Rex Rowley
Rex Rowley
Kanab Area Manager

8/11/82

For telecon → with Pete Kilbourne, BLM
KANAB, T&E Species Clearance and
Arch clearance granted. BLM neglected to send
Kane County Health Dept. Regs for Camps and
will Mail today with letter providing T&E
and Arch clearance.

JJD.

** FILE NOTATIONS **

DATE: June 10, 1982

OPERATOR: Rocky Mountain Exploration Company

WELL NO: Kaibab # 1-34

Location: Sec. ^{NWSE} 34 T. 41S R. 2W County: Kane

File Prepared:

Entered on N.I.D:

Card Indexed:

Completion Sheet:

API Number 43-025-30019

CHECKED BY:

Petroleum Engineer: _____

Director: _____

Administrative Aide: ^{OK} As Per Rule C-3

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

Rule C-3(c), Topographic Exception - company owns or controls acreage within a 660' radius of proposed site

Lease Designation F&P

Plotted on Map

Approval Letter Written

Hot Line

P.I.

June 16, 1982

Rocky Mountain Exploration Company
115 South Main Street, Suite 420
Salt Lake City, Utah 84111

RE: Well No. Kaibab #1-34
Sec. 34, T41S, R2W
Kane County

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Rule C-3, 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:

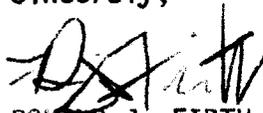
CLEON B. FEIGHT
Office: 533-5771
Home: 466-4455

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 43-025-30019.

Sincerely,



RONALD J. FIRTH
CHIEF PETROLEUM ENGINEER

RJF:SC
cc: Minerals Management Service
Enclosure



STATE OF UTAH
NATURAL RESOURCES & ENERGY
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Cleon B. Feight, Division Director

4241 State Office Building • Salt Lake City, UT 84114 • 301-533-5771

March 16, 1983

Rocky Mountain Exploration Company
115 South Main Street, Suite 420
Salt Lake City, Utah 84111

Re: Well No. Kaibab # 1-34
Sec. 34, T. 41S, R. 2W.
Kane County, Utah

Gentlemen:

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

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan to drill this location at a later date, please notify as such.

We will be happy to acknowledge receipt of your response to this notice if you will include an extra copy of the transmittal letter with a place for our signature, and a self addressed envelope for the return. Such acknowledgement should avoid unnecessary mailing of a firm second notice from our agency.

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

A handwritten signature in cursive script that reads "Cari Furse".

Cari Furse
Well Records Specialist

CF/cf

ROCKY MOUNTAIN EXPLORATION COMPANY

420 PRUDENTIAL FEDERAL SAVINGS BLDG.

115 SOUTH MAIN

SALT LAKE CITY, UTAH 84111

(801) 355-2380

March 18, 1983

State of Utah
Natural Resources & Energy
Oil, Gas & Mining
4241 State Office Bldg.
Salt Lake City, UT 84114

RE: Well No. Kaibab #1-34
Sec. 34, T 41S, R 2W
Kan̄ County, Utah

Gentlemen:

We plan to drill the above referenced location at a later date due to funding delays. We hope to begin this operation in July of this year and will be filing the required documents in your office at spud.

Sincerely yours,

ROCKY MOUNTAIN EXPLORATION COMPANY



David L. Allin
Vice President, Exploration

DLA/jo

RECEIVED
MAR 21 1983

DIVISION OF
OIL, GAS & MINING



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

Scott M. Matheson, Governor
Temple A. Reynolds, Executive Director
Dr. G. A. (Jim) Shirazi, Division Director

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

December 27, 1983

Rocky Mountain Exploration Co.
115 South Main Street Suite 420
Salt Lake City UT 84111

RE: Well No. Kaibab #1-34
API #43-025-30019
2000' FSL, 2000' FEL NW SE
Sec. 34, T. 41S, R. 2W
Kane County, Utah

Gentlemen:

Due to excessive time delay in commencing drilling operations, approval to drill the subject well is hereby rescinded effective one calendar month from the date of this notice.

A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

Respectfully,

A handwritten signature in black ink, appearing to read 'Norman C. Stout'.

Norman C. Stout
Administrative Assistant

NCS/cj

RECEIVED

FEB 27 1984

3100
(U-922)

DIVISION OF
OIL, GAS & MINING

FEB 24 1984

Rocky Mountain Exploration Company
115 South Main Street, Suite 420
Salt Lake City, Utah 84111

Re: Rescind Application for Permit to
Drill
Well No. 1-34 - *Kabat Sub.*
Section 34, T. 41 S., R. 2 W.
Kane County, Utah
Lease U-40146

Gentlemen:

The Application for Permit to Drill the referenced well was approved on September 3, 1982. Since that date no known activity has transpired at the approved location. Under current policy, applications for permit to drill are effective for a period of one year. In view of the foregoing this office is rescinding the approval of the referenced application without prejudice. If you intent to drill at this location at a future date, a new application for permit to drill must be submitted.

This office requires a letter confirming that no surface disturbance has been made for this drill site. Any surface disturbance associated with the approved location of the well will be rehabilitated. A schedule for this rehabilitation must then be submitted to this office. Your cooperation in this matter is appreciated.

Sincerely,

(ORIG. SGD.) E. W. GUYNN

E. W. Guynn
Chief, Branch of Fluid Minerals

bcc: Well File
BLM-CC/DO
State O&G
State BLM - 942
APD Control

922:RAHenricks:kr:02-23-84:X3023



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

March 8, 1984

Rocky Mountain Exploration Company
115 South Main Street, Suite 420
Salt Lake City, Utah 84111

RE: Rescind Application for Permit to Drill
Well No. Kaibab Fed. 1-34
Sec. 34, T. 41S, R. 2W
Kane County, Utah

Gentlemen:

Approval of Application for Permit to Drill the above referenced well is rescinded without prejudice as of the above date in concert with action taken by Branch of Fluid Minerals.

If you intend to drill this location at a future date, a new application for permit to drill may be submitted for State approval.

Sincerely,

A handwritten signature in black ink, appearing to read "R. L. Firth".

R. L. Firth
Chief Petroleum Engineer

RJF/as