

UTAH OIL AND GAS CONSERVATION COMMISSION

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

DATE FILED 9-23-85

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-40751 INDIAN

DRILLING APPROVED: 9-26-85 - OIL (Exception Location)

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: VA - Application Rescinded 9-8-86

FIELD: WILDCAT

UNIT:

COUNTY: SAN JUAN

WELL NO. CAVE CANYON 1-33 API # 43-037-31198

LOCATION 660' FSL FT. FROM (N) (S) LINE. 1787' FEL FT. FROM (E) (W) LINE. SW SE 1/4 - 1/4 SEC. 33

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				37S	24E	33	MARATHON OIL COMPANY

SAN JUAN COUNTY ROAD DEPARTMENT

Application for Right-of-Way Encroachment Permit

DATE: August 26, 1985

TO: Road Supervisor
San Juan County Road Department

Application is hereby made by: (1) Marathon Oil Company

Address (2) P.O. Box 2659, Casper, Wyoming 82602

Telephone Number: 307-577-1555 for permission to do the following:

(3) To utilize San Juan County Roads and right-of-ways during the construction, drilling, and maintenance of our Cave Canyon #1-33 well.

(4) Location: From Hatch Trading Post, Sec. 13, T39S, R24E leading Northwest to the well site, Cave Canyon #1-33 located in Sec. 33, T37S, R24E, approximately 11 miles.

City ---- County San Juan State Utah

or U. S. Highway No. 220 Milepost No. Not Available

in accordance with the attached plan. (5)

(6) Construction will begin on or about September 19 19 85

and will be completed on or before October 19 19 85

If the proposed installation requires breaking of the pavement, give the following information:

a. Type of pavement: N/A

b. The opening to be made will be N/A feet long

by N/A feet wide and N/A feet deep.

c. A bond in the amount of \$ N/A has been posted with

Telephone No. _____

to run of a term of three (3) years after completion of work to guarantee satisfactory performance.

(7) If this permit is granted, we agree to comply with all conditions, restriction, and regulations as contained in the "Regulations for the Control nad Protection of State Highway Rights-of-Way", approved by the Utah State Road Commission on October 8, 1962, and all revisions thereto or Regulations adopted by the San Juan County Commission.

(8) In approving this application and locations of utilities, and effort will be made to approve only locations that will not be effected in the event that San Juan County changes the roadway. But, in situations in which the utility has to be moved, this moving shall be done by the utility company or paid for by the company.

(9) For any and all applications requesting authority to Vibroseise, applicants shall:

a. Provide map showing where vibroseising will take place.

b. Agree to repair any damages or replace any property damaged.

c. Take full responsibility or proper flagging and traffic control.

d. Agree that Vibroseising done in the area of dirt roads shall done on the dirt road rather than in the bar ditch to minimize damage.

e. Provide a schedule of the planned work and estimated dates of completion.

f. Attach written permission form all adjacent fee-title owners.

g. The San Juan County Commission has authorized the San Juan County Road Superintendent (or his Assignees) to issue permits.

(10) San Juan County can only grant permission to the extent that the County has the aurohrity to do so and the permission granted hereunder is limited to the interest of authority actually owned by San Juan County and no warranties of ownership or authority to grant permission is expressed or implied by the granting of this permit.

BY: Frank M. Krugh
Regulatory Coordinator
TITLE

To be filled in by Road Supervisor.

(1) Permit should be granted

Permit should not be granted

(2) Additional requirements which should be imposed.

M. H. Huggins
ROAD SUPERVISOR

INSTRUCTIONS

(1) *Application for this permit should be made in duplicate by whoever will actually do the work whether it be the owner or a contractor.

(2) Mailing address of applicant.

(3) State fully and completely the type or installaion, type of construction, width, thickness, drainage data, etc., where applicable. If pole line, give the following information: number of poles, total length of line, type of wire, character of service, vertical clearance over roadway, and voltage of power line.

(4) If pipe line or buried cable, give the follwing information: Type of service, size and length of line, depth of trench, kind of pipe, (sewer, gas, oil, water supply, etc.) or conduit, and if pipe is to be driven or if pavement will be broken. All fluid lines requires encasement with suitable material. The size and length of encasement shall be satisfactory to the State Department of Transportation, San Juan County Road Supervisor or his agent.

(5) Give distance from some geographical point such as intersecting highways, city, or coporate limits. Give city, county, and state or U. S. route number.

(6) Attach two (2) copies of a plan showing proposed location of structures with reference ot pavement and right-of-way lines. If installation crosses the highway, show cross section of present roadway and proposed installation.

(7) Give anticipated dates for beginning and for completion of proposed installation.

Note: A fee of five (5) dollars will be charged for all Right-of-Way Encroachments Permits, except those obtained for pole lines, and buried cable lines. This Permit fee, where applicable, should be submitted with the application. The costs of inspection are included in the Right-of-Way Encroachment Permit fee, except for pole lines, pipe lines, and buried cable lines which shall be billed for the inspection.



La Plata Archeological Consultants, Inc.

P.O. Box 783
Dolores, Colorado 81323
303-882-4933

August 30, 1985

Mr. Chas Cartwright
Area Archeologist
Bureau of Land Management
P.O. Box 7
Monticello, Utah 84535

Mr. Cartwright:

Please find enclosed the archeological survey reports for Marathon Oil Company's Alkali Point #1-7 and Cave Canyon #1-33 wells, located in San Juan County, Utah. Archeological clearance for both projects has been recommended.

Sincerely,

Patrick L. Harden
President

Distribution:

BLM - Salt Lake City
Division of State History
Marathon Oil Company

PLH/cp

AN ARCHEOLOGICAL SURVEY OF
MARATHON OIL COMPANY'S
CAVE CANYON #1-33
WELL PAD AND ACCESS ROAD,
SAN JUAN COUNTY, UTAH

LAC REPORT 8575a

by
Patrick L. Harden

LA PLATA ARCHEOLOGICAL CONSULTANTS, INC.
P.O. BOX 783
DOLORES, COLORADO 81323
(303) 882-4933

AUGUST 30, 1985

Federal Antiquities Permit
85UT57626

State Permit
85-UT-30-551b

Prepared For:
Marathon Oil Company
P.O. Box 2659
Casper, Wyoming 82602

ABSTRACT

The archeological survey of Marathon Oil Company's Cave Canyon #1-33 well pad and access road was conducted by personnel of La Plata Archeological Consultants, Inc. on August 15, 1985. The proposed project is located on lands administered by the Bureau of Land Management - San Juan Resource Area in San Juan County, Utah. An area 660 X 660' surrounding the well center stake and a 100' wide corridor along ca. $\frac{1}{4}$ mile of access road were archeologically surveyed. The presence of a prehistoric habitation site necessitated the relocation of the well pad some 300' to the east from the originally desired location. The site is now well outside of the pad limits and in no danger of disturbance. Another site, 42SA13618 (previously recorded) was also encountered, but relocation of the access road will effectively avoid this site as well. Provided that both of these sites are strictly avoided during the project construction and operation of the well archeological clearance is recommended.

INTRODUCTION

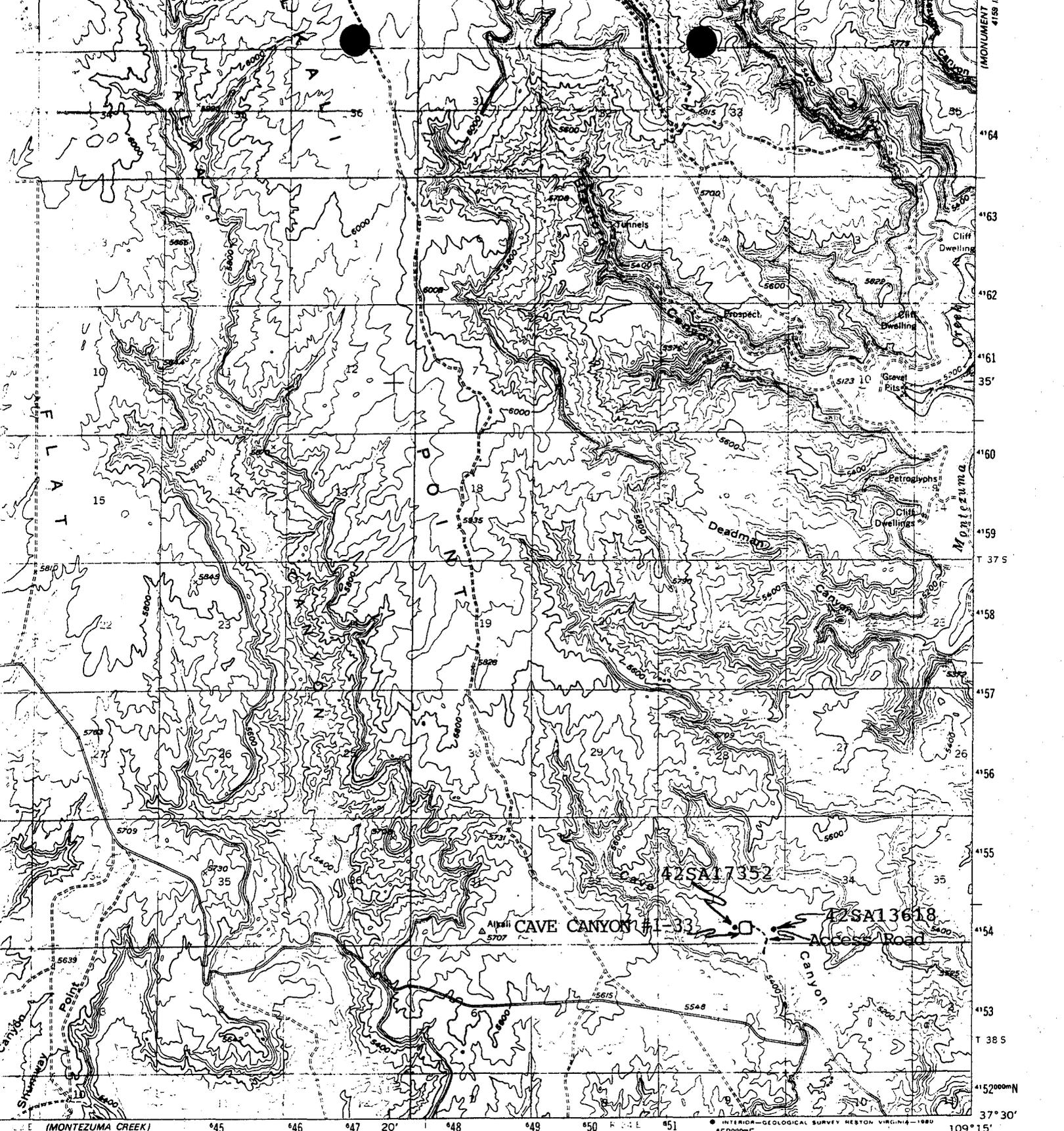
On August 15, 1985 an archeological survey of Marathon Oil Company's Cave Canyon #1-33 well pad and approximately $\frac{1}{4}$ mile of access road was conducted by Patrick Harden of La Plata Archeological Consultants, Inc. of Dolores, Colorado. The survey was requested by Mr. Frank Krugh of Marathon Oil, and was done

in conjunction with the pre-drill on-site inspection. Persons attending the pre-drill included Mr. Krugh (Marathon), Rich McClure (BLM), Howard Hughes (Hughes Construction), Jim Perkins (Reed Surveying), and Harden (LAC).

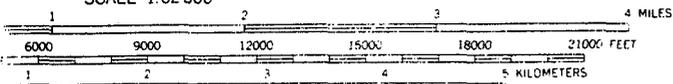
The proposed project consists of the construction of a single well pad ca. 325 X 275 feet in size, and an access road ca. 20' wide and $\frac{1}{4}$ mile in length. The access road will join an improved road at Duncan Oil's #1 well in the NE $\frac{1}{4}$ of section 4, southeast of the Marathon well. The Cave Canyon #1-33 well is located in the SE $\frac{1}{4}$ of section 33, T37S, R24E; and the access road is in the SE $\frac{1}{4}$ of section 33 and the NE $\frac{1}{4}$ of section 4, T38S, R24E; San Juan County, Utah. The Bureau of Land Management - San Juan Resource Area administers the land involved. The area is included on the Blanding, Utah 15' series topographic map (1957).

PHYSIOGRAPHY AND ENVIRONMENT

The project area is situated in Cave Canyon, and directly east and below the east rim of Alkali Ridge. Cave Canyon is one of a series of canyons which drain the east side of Alkali Ridge and flow into Montezuma Canyon. Terrain in the area is gently undulating, characterized by relatively large swales shallowly dissected by arroyos and moderate sized washes. A low ridge and the shallow Cave Canyon wash provide the major topographic relief in the project area.

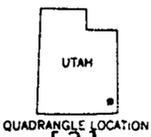


SCALE 1:62500



CONTOUR INTERVAL 40 FEET
 NATIONAL GEODETIC VERTICAL DATUM OF 1929

CONFORMS WITH NATIONAL MAP ACCURACY STANDARDS
 U.S. GEOLOGICAL SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092
 A LIST OF TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



ROAD CLASSIFICATION

- Heavy-duty
- Medium-duty
- Light-duty
- Unimproved dirt
- State Route

BLANDING, UTAH
 N3730—W10915/15

1957

DMA 4159 III—SERIES V797

Sediments consist of aeolian sand to sandy loam interspersed with an abundant amount of silicified large cobble sized sandstone detritus on the well pad. Both colluvial sand to cobble sized deposits and alluvial sand is found along the access route.

Vegetation consists primarily of cheat grass, snakeweed, saltbush, sagebrush, and greasewood. A few scattered juniper are also present.

There are no sources of permanent water in the immediate project area, although the improved Cave Canyon Spring is located approximately $\frac{1}{4}$ mile south of the access road.

EXAMINATION PROCEDURES

Prior to the initiation of the field inspection a file search was conducted through the Division of State History and at the BLM office in Monticello. The results of the reviews indicated that one archeological site had been previously recorded in the immediate project area (42SA13618), but that only a short segment of the access road had been previously archeologically surveyed.

On-the-ground survey consisted of walking a series of transects spaced 15 meters apart across an area 660 X 660' (ten acres) surrounding the well center stake. Since the archeological site which required the relocation was found almost immediately, the ten acre survey unit includes only the subsequent well location and the location of the site. Two parallel tran-

sects were walked along the access route, effectively inventoring a 100' wide corridor. The well pad was staked during the survey, and the archeologist flagged the access route.

SURVEY RESULTS

Two archeological sites were found during the survey, one of which had been previously recorded (42SA13618). Due to the presence of site 42SA17352 the original well location was unacceptable and the well had to be moved approximately 300' to the east. The currently proposed well pad limits are at least 100' from the site and the two are separated by a small drainage. Site 42SA13618 was found along the access route, but relocation of the route now avoids the site by about 200'. Neither of the two sites should be in danger of disturbance during project construction activities. Brief description of the newly recorded site is presented below, more detailed information is contained in the site form submitted to appropriate offices of the BLM and the Division of State History.

42SA17352

This site consists of the partially exposed upright slab wall outlines of a 2-4 room structure, adjacent midden, and surrounding sparse and diffuse artifact scatter. Most of the walls of the structure are only intermittently exposed, with aggrading colluvial deposits covering the site area. The structure probably had a jacal superstructure. A ca. 10 X 10m midden is just to the southeast of the structure and contains numerous sherds, flakes, burned rock, and a dark ash stain. A small

concentration (sparse) of burned rock and a few artifacts are ca. 40m down slope to the south of the structure. The site is on a southerly dipping ridge slope and about 80m from Cave Canyon Wash. Ceramics and architecture indicate a Basketmaker III to Pueblo I affiliation.

CONCLUSION

The archeological survey of the Cave Canyon #1-33 well pad and ca. $\frac{1}{4}$ mile of access road was conducted by personnel of La Plata Archeological Consultants, Inc. on August 15, 1985. The project is a development planned by Marathon Oil Company on BLM lands in San Juan County, Utah. An area 660 X 660' surrounding the pad center stake and a 100' wide corridor along the access route were archeologically surveyed. Two prehistoric archeological sites were found, one of which had been previously recorded. Because of the presence of site 42SA17352 the well pad had to be relocated ca. 300' to the east. Neither of the sites are in danger of disturbance from construction activities; however, if either site becomes subjected to vandalism or other disturbances as a result of the well's presence then it is recommended that the site/s be fully excavated. Given this stipulation archeological clearance for the project is recommended.

Casper Division
Production United States



P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

September 10, 1985

Duncan Oil Company
Attn: Mr. John Bettridge
1777 S. Harrison Place
Denver, CO 80210

Re: Marathon Oil Company's location of access road for the
proposed Cave Canyon #1-33 well.

Dear Mr. Bettridge:

In follow-up to our telephone conversation enclosed please find a diagram of the proposed access road to the Cave Canyon #1-33 location. The existing road marked on the diagram is the right-of-way which Duncan utilizes for access to their well.

During the onsite for Marathon's Cave Canyon #1-33, the BLM recommended that our proposed access utilize this existing road. Please contact Mr. Carl Bassett, Landman, for determination of sharing of maintenance costs on Duncans portion of the access road. Mr. Bassett is located in this office.

Thank you for your cooperation in dealing with this project.

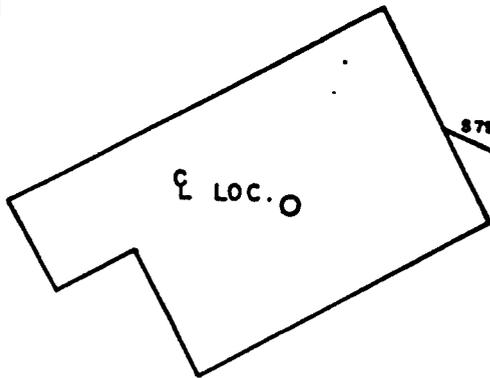
Sincerely,

MARATHON OIL COMPANY

A handwritten signature in cursive script that reads 'Frank M. Krugh'.

Frank M. Krugh
Regulatory Coordinator

FMK:mrt
Enclosure



S79°E
75'

S54°E
455'

PROPOSED ACCESS ROAD

S27°E
200'

S20°E
147'

S47°E
75'

S72°E
210'

S48°E
250'

SCALE: 1" = 200'

SECTION 33
SECTION 4

S62°E
250'

N52°E 457'
TO S.E. COR. SEC. 33

Existing Road



I certify the above plot represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick M. Reed
FREDERICK M. REED
Registered Land Surveyor

MARATHON OIL COMPANY Casper, Wyoming	
PROPOSED ACCESS ROAD CAVE CANYON # 1-33 Sec. 33, T. 37S., R. 24 E San Juan County, Utah	
CLARK-REED & ASSOC Durango, Colorado	DATE: AUG. 14, 1965 FILE NO. 85031



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

September 13, 1985

Marathon Oil Company
P.O. Box 2659
Casper, WY 82602

Dear Applicant:

RE: TEMPORARY APPLICATION
NUMBER 09-1437 (T61229)

Enclosed is a copy of approved Temporary Application Number 09-1437 (T61229). This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire September 13, 1986, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it is with the Area Engineer, Mark Page. The telephone number is (801)637-1303.

Yours truly,

A handwritten signature in cursive script that reads "Robert L. Morgan".

Robert L. Morgan, P.E.
State Engineer

RLM:slm

Encl.: Copy of approved Temporary Application

TEMPORARY

APPLICATION TO APPROPRIATE WATER STATE OF UTAH

Application No. T-61229

09-1437

RECEIVED

NOTE:--The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, 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.

1. Irrigation Domestic Stockwatering Municipal Power Mining Other Uses

2. The name of the applicant is Marathon Oil Company

3. The Post Office address of the applicant is P.O. Box 2659, Casper, WY 82602

4. The quantity of water to be appropriated _____ second-feet and/or 11.0 acre-feet

5. The water is to be used for Oil well drilling from Sept. 15, 1985 to Sept. 15, 1986
(Major Purpose) (Month) (Day) (Month) (Day)

other use period _____ from _____ to _____
(Minor Purpose) (Month) (Day) (Month) (Day)

and stored each year (if stored) from _____ to _____
(Month) (Day) (Month) (Day)

6. The drainage area to which the direct source of supply belongs is _____
(Leave Blank)

7. The direct source of supply is* Pond on property of Richard Perkins, NE 1/4 NE 1/4 of Sec. 12, T38S-R24E, water flowing from underground (Name of stream or other source) artesian wells.
(See reverse side for secondary sources)
which is tributary to _____, tributary to _____

*Note.--Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* NE 1/4 NE 1/4 of Sec. 12, T38S-R24E. A pond located on the property of Richard Perkins.
See Reverse Side

*Note.--The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of trucks running to the pond and pumping
water from the pond. Artesian well 8-inch diameter casing, 506 feet deep

10. If water is to be stored, give capacity of reservoir in acre-feet 1.0 height of dam 4 ft.
area inundated in acres 0.25 legal subdivision of area inundated NE 1/4 NE 1/4 Sec. 12, T38S, R24E, SLB&M.

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows:

Total _____ Acres

12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes _____ No X
If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. _____

15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____

16. If application is for stockwatering purposes, number and kind of stock watered _____

17. If application is for domestic purposes, number of persons _____, or families _____

18. If application is for municipal purposes, name of municipality _____

19. If application is for other uses, include general description of proposed uses _____

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE 1/4 SW 1/4 of Sec. 7, T37S-R24E (Alkali Point Prospect); SW 1/4 SE 1/4 of Sec. 33, T37S-R24E (Cave Canyon Prospect); NW 1/4 SW 1/4 of Sec. 9, T37S-R24E (Tank Canyon Prospect)

21. The use of water as set forth in this application will consume 11.0 second-feet and/or acre-feet of water and 0 second feet and/or acre feet will be returned to the natural stream or source at a point described as follows: _____

FEEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost	
0.0 to 0.1	\$ 15.00	
over 0.1 to 0.5	30.00	
over 0.5 to 1.0	45.00	
over 1.0 to 15.0	45.00	plus \$7.50 for each cfs above the first cubic
over 15.0	150.00	foot per second.

Storage — acre-feet		
0 to 20	22.50	
over 20 to 500	45.00	
over 500 to 7500	45.00	plus \$7.50 for each 500 a.f. above the first
over 7500	150.00	500 acre feet.

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. TEMPORARY AUGUST 13, 1985 Application received by mail in State Engineer's office by
2. Priority of Application brought down to, on account of
3. 9-3-85 Application fee, \$ 15.00, received by [Signature] Rec. No. 18872
4. Application microfilmed by Roll No.
5. Indexed by Platted by
6. AUGUST 28, 1985 Application examined by [Signature]
7. Application returned, or corrected by office
8. Corrected Application resubmitted by mail to State Engineer's office.
9. Application approved for advertisement by
10. Notice to water users prepared by
11. Publication began; was completed
12. Notice published in
13. Proof slips checked by
14. Application protested by
15. Publisher paid by M.E.V. No.
16. Hearing held by
17. 8-28-85 Application designated for approval [Signature] S.G.
18. 9/13/85 Application copied or photostated by slm proofread by
19. 9/13/85 Application approved [Signature]
20. Conditions:
 This Application is approved, subject to prior rights, as follows:
 a. Actual construction work shall be diligently prosecuted to completion.
 b. Proof of Appropriation shall be submitted to the State Engineer's office by NPR
 c. TEMPORARY APPROVAL -- EXPIRES September 13, 1986.
21. Time for making Proof of Appropriation extended to
22. Proof of Appropriation submitted.
23. Certificate of Appropriation, No., issued

Robert L. Morgan
 Robert L. Morgan, P.E., State Engineer

TEMPORARY Application No. T 61229
09-1439

WATER RIGHTS DATA BASE
 ENTERED - DATE 1/20/85 BY [Signature]
 VERIFIED - DATE 1/20/85 BY [Signature]

**APPLICATION FOR TRANSPORTATION AND
 UTILITY SYSTEMS AND FACILITIES
 ON FEDERAL LANDS**

FORM APPROVED
 OMB NO. 1004-0060
 Expires: May 31, 1986

NOTE: Before completing and filing the application, the applicant should completely review this package and schedule a preapplication meeting with representatives of the agency responsible for processing the application. Each agency may have specific and unique requirements to be met in preparing and processing the application. Many times, with the help of the agency representative, the application can be completed at the preapplication meeting.

FOR AGENCY USE ONLY

Application Number

Date filed

<p>1. Name and address of applicant (include zip code)</p> <p>Marathon Oil Company P.O. Box 2659 Casper, Wyoming 82602</p>	<p>2. Name, title, and address of authorized agent if different from Item 1 (include zip code)</p> <p>N/A</p>	<p>3. TELEPHONE (area code)</p> <p>Applicant (307) 577-1555</p> <p>Authorized Agent Doyle L. Jones</p>
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<p>4. As applicant are you? (check one)</p> <p>a. <input type="checkbox"/> Individual</p> <p>b. <input checked="" type="checkbox"/> Corporation *</p> <p>c. <input type="checkbox"/> Partnership/Association *</p> <p>d. <input type="checkbox"/> State Government/State Agency</p> <p>e. <input type="checkbox"/> Local Government</p> <p>f. <input type="checkbox"/> Federal Agency</p> <p>* If checked, complete supplemental page</p>	<p>5. Specify what application is for: (check one)</p> <p>a. <input checked="" type="checkbox"/> New authorization</p> <p>b. <input type="checkbox"/> Renew existing authorization No. _____</p> <p>c. <input type="checkbox"/> Amend existing authorization No. _____</p> <p>d. <input type="checkbox"/> Assign existing authorization No. _____</p> <p>e. <input type="checkbox"/> Existing use for which no authorization has been received *</p> <p>f. <input type="checkbox"/> Other *</p> <p>* If checked, provide details under Item 7</p>
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6. If an individual, or partnership are you a citizen(s) of the United States? Yes No

7. Project description (describe in detail): (a) Type of system or facility, (e.g., canal, pipeline, road); (b) related structures and facilities; (c) physical specifications (length, width, grading, etc.); (d) term of years needed; (e) time of year of use or operation; (f) Volume or amount of product to be transported; (g) duration and timing of construction; and (h) temporary work areas needed for construction. (Attach additional sheets, if additional space is needed.)

Right-of-way grant for use permit for access to drill and operate Cave Canyon #1-33, Sec. 33, T37S, R24E, San Juan County, Utah. Existing right-of-ways will be maintained as per BLM specifications and recommendations in cooperation with Duncan. Construction of new access will be to BLM specifications and recommendations, discussed at the onsite for Cave Canyon #1-33, and will be built as described in the submitted APD. The right-of-way will cross lands in the NW-1/4 of Sec. 3 and the NE-1/4 of Sec. 4, both sections located in T38S, R24E, San Juan County, Utah.

8. Attach map covering area and show location of project proposal Proposed R O W Color-Coded blue on Diagram "A"

9. State or local government approval: Attached Applied for Not required

10. Nonreturnable application fee: Attached Not required

11. Does project cross international boundary or affect international waterways? Yes No (If "yes," indicate on map)

12. Give statement of your technical and financial capability to construct, operate, maintain, and terminate system for which authorization is being requested.

Marathon Oil Company has the technical and financial capability to construct, operate, and maintain the right-of-way stated in the above request.

Attached Check #16072

Pre Application = \$50.00
 Post Application = \$20.00
 Total \$70.00

13a. Describe other reasonable alternative routes and modes considered.

N/A

b. Why were these alternatives not selected?

N/A

c. Give explanation as to why it is necessary to cross Federal lands.

The crossing of Federal lands is necessary to gain access to drill and operate the proposed Cave Canyon #1-33 exploratory well.

14. List authorizations and pending applications filed for similar projects which may provide information to the authorizing agency. (Specify number, date, code, or name.)

N/A

15. Provide statement of need for project, including the economic feasibility and items such as: (a) cost of proposal (construction, operation, and maintenance); (b) estimated cost of next best alternative; and (c) expected public benefits.

N/A

16. Describe probable effects on the population in the area, including the social and economic aspects, and the rural lifestyles.

N/A

17. Describe likely environmental effects that the proposed project will have on: (a) air quality; (b) visual impact; (c) surface and ground water quality and quantity; (d) the control or structural change on any stream or other body of water; (e) existing noise levels; and (f) the surface of the land, including vegetation, permafrost, soil, and soil stability.

N/A

18. Describe the probable effects that the proposed project will have on: (a) populations of fish, plant, wildlife, and marine life, including threatened and endangered species; and (b) marine mammals, including hunting, capturing, collecting, or killing these animals.

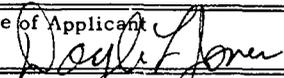
N/A

19. Name all the Department(s)/Agency(ies) where this application is being filed.

Bureau of Land Management - Monticello, Utah with copies being sent to BLM - Moab, Utah

I HEREBY CERTIFY, That I am of legal age and authorized to do business in the State and that I have personally examined the information contained in the application and believe that the information submitted is correct to the best of my knowledge.

Signature of Applicant

 Doyle L. Jones District Production Manager

Date

August 29, 1985

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.

APPLICATION FOR TRANSPORTATION AND UTILITY SYSTEMS
AND FACILITIES ON FEDERAL LANDS

GENERAL INFORMATION
ALASKA NATIONAL INTEREST LANDS

This application will be used when applying for a right-of-way, permit, license, lease, or certificate for the use of Federal lands which lie within conservation system units and National Recreation or Conservation Areas as defined in the Alaska National Interest Lands Conservation Act. Conservation system units include the National Park System, National Wildlife Refuge System, National Wild and Scenic Rivers System, National Trails System, National Wilderness Preservation System, and National Forest Monuments.

Transportation and utility systems and facility uses for which the application may be used are:

1. Canals, ditches, flumes, laterals, pipes, pipelines, tunnels, and other systems for the transportation of water.
2. Pipelines and other systems for the transportation of liquids other than water, including oil, natural gas, synthetic liquid and gaseous fuels, and any refined product produced therefrom.
3. Pipelines, slurry and emulsion systems, and conveyor belts for transportation of solid materials.
4. Systems for the transmission and distribution of electric energy.
5. Systems for transmission or reception of radio, television, telephone, telegraph, and other electronic signals, and other means of communications.
6. Improved rights-of-way for snow machines, air cushion vehicles, and all-terrain vehicles.
7. Roads, highways, railroads, tunnels, tramways, airports, landing strips, docks, and other systems of general transportation.

This application *must* be filed simultaneously with each Federal department or agency requiring authorization to establish and operate your proposal.

In Alaska, the following agencies will help the applicant file an application and identify the other agencies the applicant should contact and possibly file with:

Department of Agriculture
Regional Forester, Forest Service (USFS)
Federal Office Building, P.O. Box 1628
Juneau, Alaska 99802
Telephone: (907) 588-7247 (or a local Forest Service Office)

Department of Interior
Bureau of Indian Affairs (BIA)
Juneau Area Office, P.O. Box 3-8000
Juneau, Alaska 99802
Telephone: (907) 586-7209

Bureau of Land Management (BLM)
701 C Street, Box 13
Anchorage, Alaska 99513
Telephone: (907) 271-5055 (or a local BLM Office)

National Park Service (NPS)
Alaska Regional Office, 540 West 5th Avenue, Room 202
Anchorage, Alaska 99501
Telephone: (907) 271-4196

U.S. Fish & Wildlife Service (FWS)
Office of the Regional Director
1011 East Tudor Road
Anchorage, Alaska 99503
Telephone: (907) 276-3800

Note-Filings with any Interior agency may be filed with any office noted above or with the: Office of the Secretary of the Interior, Regional Environmental Officer, Box 120, 1675 C Street, Anchorage, Alaska 99513.

(For supplemental, see reverse)

Department of Transportation
Federal Aviation Administration
Alaska Region AAL-4, P.O. 14
Anchorage, Alaska 99513

NOTE - The Department of Transportation has established the above central filing point for agencies within that Department. Affected agencies are: Federal Aviation Administration (FAA), Coast Guard (USCG), Federal Highway Administration (FHWA), Federal Railroad Administration (FRA).

OTHER THAN ALASKA NATIONAL INTEREST LANDS

Use of this form is not limited to National Interest Conservation Lands of Alaska.

Individual departments/agencies may authorize the use of this form by applicants for transportation and utility systems and facilities on other Federal lands outside those areas described above.

For proposals located outside of Alaska, applications will be filed at the local agency office or at a location specified by the responsible Federal agency.

SPECIFIC INSTRUCTIONS
(Items not listed are self-explanatory)

Item

- 7 Attach preliminary site and facility construction plans. The responsible agency will provide instructions whenever specific plans are required.
 - 8 Generally, the map *must* show the section(s), township(s), and range(s) within which the project is to be located. Show the proposed location of the project on the map as accurately as possible. Some agencies require detailed survey maps. The responsible agency will provide additional instructions.
 - 9, 10, and 12 - The responsible agency will provide additional instructions.
 - 13 Providing information on alternate routes and modes in as much detail as possible, discussing why certain routes or modes were rejected and why it is necessary to cross Federal lands will assist the agency(ies) in processing your application and reaching a final decision. Include only reasonable alternate routes and modes as related to current technology and economics.
 - 14 The responsible agency will provide instructions.
 - 15 Generally, a simple statement of the purpose of the proposal will be sufficient. However, major proposals located in critical or sensitive areas may require a full analysis with additional specific information. The responsible agency will provide additional instructions.
 - 16 through 18 - Providing this information in as much detail as possible will assist the Federal agency(ies) in processing the application and reaching a decision. When completing these items, you should use sound judgment in furnishing relevant information. For example, if the project is not near a stream or other body of water, *do not* address this subject. The responsible agency will provide additional instructions.
- Application *must* be signed by the applicant or applicant's authorized representative.

If additional space is needed to complete any item, please put the information on a separate sheet of paper and identify it as "Continuation of Item".

SUPPLEMENTAL

NOTE: The responsible agency(ies) will provide additional instructions.

CHECK APPROPRIATE BLOCK

I - PRIVATE CORPORATIONS

	ATTACHED	FILED *
a. Articles of Incorporation	<input type="checkbox"/>	<input type="checkbox"/>
b. Corporation Bylaws	<input type="checkbox"/>	<input type="checkbox"/>
c. A certification from the State showing the corporation is in good standing and is entitled to operate within the State.	<input type="checkbox"/>	<input type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input type="checkbox"/>
e. The name and address of each shareholder owning 3 percent or more of the shares, together with the number and percentage of any class of voting shares of the entity which such shareholder is authorized to vote and the name and address of each affiliate of the entity together with, in the case of an affiliate controlled by the entity, the number of shares and the percentage of any class of voting stock of that affiliate owned, directly or indirectly, by that entity, and in the case of an affiliate which controls that entity, the number of shares and the percentage of any class of voting stock of that entity owned, directly or indirectly, by the affiliate.	<input type="checkbox"/>	<input type="checkbox"/>
f. If application is for an oil or gas pipeline, describe any related right-of-way or temporary use permit applications, and identify previous applications.	<input type="checkbox"/>	<input type="checkbox"/>
g. If application is for an oil and gas pipeline, identify all Federal lands by agency impacted by proposal.	<input type="checkbox"/>	<input type="checkbox"/>

II - PUBLIC CORPORATIONS

a. Copy of law forming corporation	<input type="checkbox"/>	<input checked="" type="checkbox"/>
b. Proof of organization	<input type="checkbox"/>	<input checked="" type="checkbox"/>
c. Copy of Bylaws	<input type="checkbox"/>	<input checked="" type="checkbox"/>
d. Copy of resolution authorizing filing	<input type="checkbox"/>	<input checked="" type="checkbox"/>
e. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	<input type="checkbox"/>	<input checked="" type="checkbox"/>

III - PARTNERSHIP OR OTHER UNINCORPORATED ENTITY

a. Articles of association, if any	<input type="checkbox"/>	<input type="checkbox"/>
b. If one partner is authorized to sign, resolution authorizing action is	<input type="checkbox"/>	<input type="checkbox"/>
c. Name and address of each participant, partner, association, or other	<input type="checkbox"/>	<input type="checkbox"/>
d. If application is for an oil or gas pipeline, provide information required by Item "I-f" and "I-g" above.	<input type="checkbox"/>	<input type="checkbox"/>

* If the required information is already filed with the agency processing this application and is current, check block entitled "Filed." Provide the file identification information.(e.g., number, date, code, name). If not on file or current, attach the requested information.

Case Number U-52038

NOTICE

The Privacy Act of 1974 provides that you be furnished the following information in connection with information required by this application for an authorization.

AUTHORITY: 16 U.S.C. 310; 5 U.S.C. 301.

PRINCIPLE PURPOSE: The information is to be used to process the application.

ROUTINE USES: (1) The processing of the applicant's request for an authorization. (2) Documentation for public information. (3) Transfer to appropriate Federal agencies when concurrence is required prior to granting a right in public lands or resources. (4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

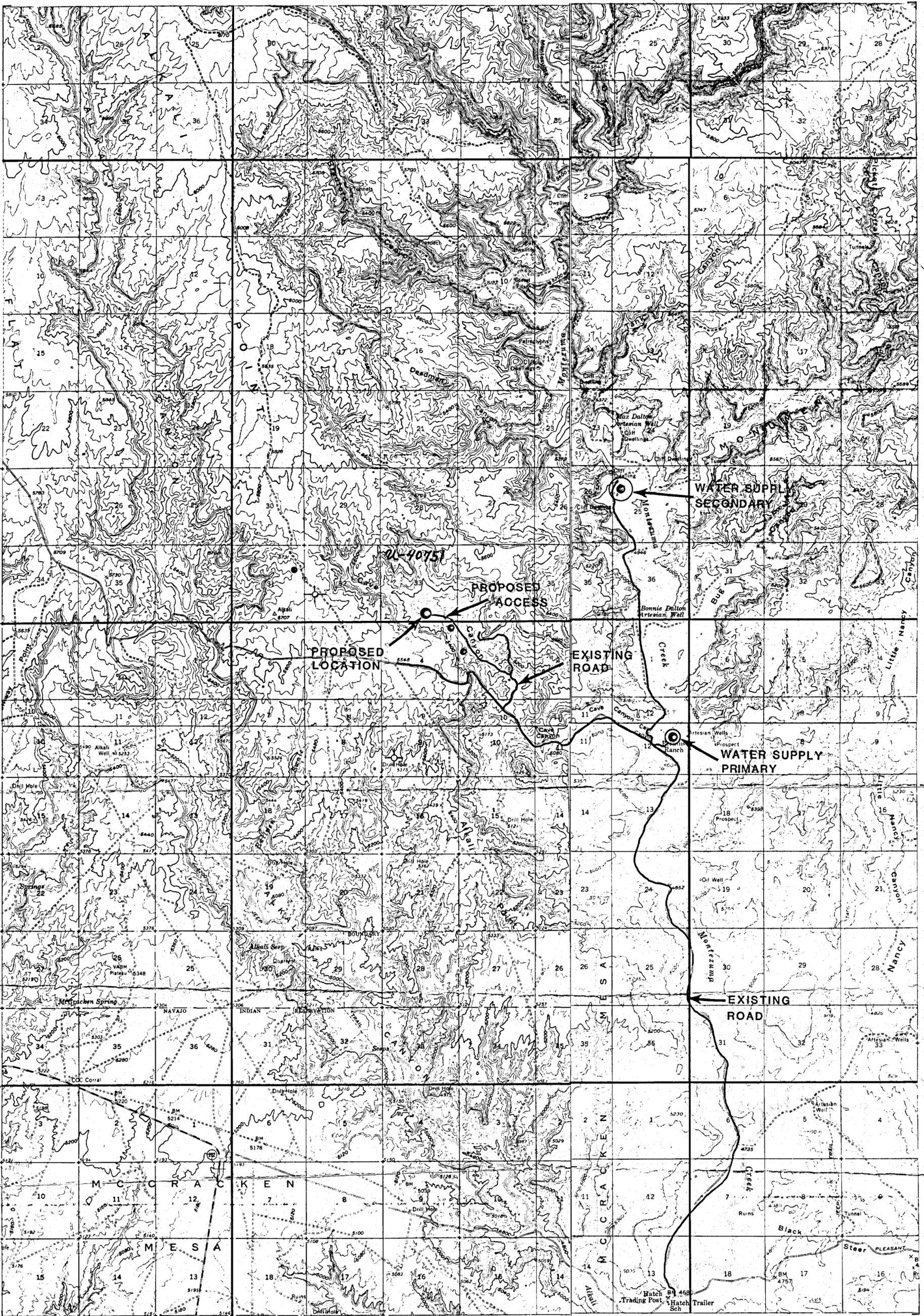
EFFECT OF NOT PROVIDING INFORMATION: Disclosure of the information is voluntary. If all the information is not provided, the application may be rejected.

DATA COLLECTION STATEMENT

The Federal agencies collect this information from applicants requesting right-of-way, permit, license, lease, or certification for the use of Federal lands.

The Federal agencies use this information to evaluate the applicant's proposal.

The public is obligated to respond to this information request if they wish to obtain permission to use Federal lands.



MARATHON OIL COMPANY
CAVE CANYON
 WELL # 1-33
 SEC. 33, T37S, R24E
 SAN JUAN CO., UTAH



STATE OF UTAH
NATURAL RESOURCES
Water Rights

Norman H. Bangerter, Governor
Dee C. Hansen, Executive Director
Robert L. Morgan, State Engineer

1636 West North Temple • Suite 220 • Salt Lake City, UT 84116-3156 • 801-533-6071

September 13, 1985

RECEIVED

SEP 16 1985

TEMPORARY

Marathon Oil Company
P.O. Box 2659
Casper, WY 82602

DIVISION OF OIL
GAS & MINING

Dear Applicant:

RE: TEMPORARY APPLICATION
NUMBER 09-1437 (T61229)

Enclosed is a copy of approved Temporary Application Number 09-1437 (T61229). This is your authority to construct your works and to divert the water for the uses described.

While this approved application does give you our permission to divert and use water, it does not grant easements through public or private lands in order to gain access to the source nor to convey the water to the place of use, nor does this approval eliminate the need for such other permits as may be required by this Division or any other agency in implementing your diversion.

This application will expire September 13, 1986, and it is expected that no diversion or use of the water will be done after that date unless another proposal has been made and approved.

Your contact with this office, should you need it is with the Area Engineer, Mark Page. The telephone number is (801)637-1303.

Yours truly,

Robert L. Morgan, P.E.
State Engineer

RLM:slm

Encl.: Copy of approved Temporary Application

TEMPORARY

APPLICATION TO APPROPRIATE WATER

09-1437

RECEIVED

STATE OF UTAH

SEP 16 1985

AUG 19 1985

NOTE:--The information given in the following blanks should be free from explanatory matter, but when necessary, a complete supplementary statement should be made on the following page under the heading "Explanatory."

For the purpose of acquiring the right to use a portion of the unappropriated water of the State of Utah, for uses indicated by (X) in the proper box or boxes, 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.

1. Irrigation Domestic Stockwatering Municipal Power Mining Other Uses 031800

2. The name of the applicant is Marathon Oil Company N3490

3. The Post Office address of the applicant is P.O. Box 2659, Casper, WY 82602

4. The quantity of water to be appropriated _____ second-feet and/or 11.0 acre-feet

5. The water is to be used for Oil well drilling from Sept. 15, 1985 to Sept. 15, 1986

other use period _____ from _____ to _____

and stored each year (if stored) from _____ to _____

6. The drainage area to which the direct source of supply belongs is _____ (Leave Blank)

7. The direct source of supply is* Pond on property of Richard Perkins, NE 1/4 NE 1/4 of Sec. 12, T38S-R24E, water flowing from underground artesian wells. (Name of stream or other source) artesian wells. (See reverse side for secondary sources) which is tributary to _____, tributary to _____

*Note.--Where water is to be diverted from a well, a tunnel, or drain, the source should be designated as "Underground Water" in the first space and the remaining spaces should be left blank. If the source is a stream, a spring, a spring area, or a drain, so indicate in the first space, giving its name, if named, and in the remaining spaces, designate the stream channels to which it is tributary, even though the water may sink, evaporate, or be diverted before reaching said channels. If water from a spring flows in a natural surface channel before being diverted, the direct source should be designated as a stream and not a spring.

8. The point of diversion from the source is in San Juan County, situated at a point* NE 1/4 NE 1/4 of Sec. 12, T38S-R24E. A pond located on the property of Richard Perkins. See Reverse Side

*Note.--The point of diversion must be located definitely by course and distance or by giving the distances north or south, and east or west with reference to a United States land survey corner or United States mineral monument, if within a distance of six miles of either, or if at a greater distance, to some prominent and permanent natural object. No application will be received for filing in which the point of diversion is not defined definitely.

9. The diverting and carrying works will consist of trucks running to the pond and pumping water from the pond. Artesian well 8-inch diameter casing, 506 feet deep

10. If water is to be stored, give capacity of reservoir in acre-feet 1.0 height of dam 4 ft. area inundated in acres 0.25 legal subdivision of area inundated NE 1/4 NE 1/4 Sec. 12, T38S, R24E, SLB&M.

11. If application is for irrigation purposes, the legal subdivisions of the area irrigated are as follows: _____ Total _____ Acres

12. Is the land owned by the applicant? Yes _____ No X If "No," explain on page 2.

13. Is this water to be used supplementally with other water rights? Yes _____ No X If "yes," identify other water rights on page 2.

14. If application is for power purposes, describe type of plant, size and rated capacity. _____

15. If application is for mining, the water will be used in _____ Mining District at the _____ mine, where the following ores are mined _____

16. If application is for stockwatering purposes, number and kind of stock watered _____

17. If application is for domestic purposes, number of persons _____, or families _____

18. If application is for municipal purposes, name of municipality _____

19. If application is for other uses, include general description of proposed uses _____

20. Give place of use by legal subdivision of the United States Land Survey for all uses described in paragraphs 14 to 19, incl. SE 1/4 SW 1/4 of Sec. 7, T37S-R24E (Alkali Point Prospect); SW 1/4 SE 1/4 of Sec. 33, T37S-R24E (Cave Canyon Prospect); NW 1/4 SW 1/4 of Sec. 9, T37S-R24E (Tank Canyon Prospect) CAVE CANYON

21. The use of water as set forth in this application will consume 11.0 second feet and/or acre-feet of water and 0 second feet and/ or acre feet will be returned to the natural stream or source at a point described as follows: _____

(# 1-7) 43-037-31197-7A

(1-33) 43-037-31198-7A

(2-7) 43-037-31199-7A

EXPLANATORY

The following additional facts are set forth in order to define more clearly the full purpose of the proposed application:

Secondary Source Information:

Paragraph 7: Montezuma Creek

Paragraph 8 & 9: Montezuma Creek, San Juan County, N 1/2 SW 1/4 of Sec. 14, T37S-R24E. A hole in the streambed will be used to suck water out. The stream itself will not be diverted.

Paragraph 12: Primary: Minerals owned by United States Government; surface owned by Richard Perkins. Secondary: Surface and minerals owned by United States Government.

Paragraph 8: Primary source - artesian well N. 50 ft. & W. 480 ft. from E 1/2 Cor. Sec. 12, T38S, R24E, SLB&M. (7 1/2 miles North of Hatch Trading Post) Cajon Mesa Quad Secondary source - Montezuma Creek N. 2420 ft. & E. 1460 ft. from SW Cor. Sec. 14, T37S, R24E, SLB&M. (12 miles North of Hatch Trading Post) Blanding Quad

(Use page 4 if additional explanatory is needed.)

The quantity of water sought to be appropriated is limited to that which can be beneficially used for the purpose herein described

Carl L. Bassett

Signature of Applicant*

*If applicant is a corporation or other organization, signature must be the name of such corporation or organization by its proper officer, or in the name of the partnership by one of the partners, and the names of the other partners shall be listed. If a corporation or partnership, the affidavit below need not be filled in. If there is more than one applicant, a power of attorney, authorizing one to act for all, should accompany the Application.

DECLARATION OF CITIZENSHIP

STATE OF UTAH, } ss County of.....

On theday of, 19....., personally appeared before me, a notary public for the State of Utah, the above applicant who, on oath, declared that he is a citizen of the United States, or has declared his intention to become such a citizen.

My commission expires:

(SEAL)

Notary Public

15150174

FEEES FOR APPLICATIONS TO APPROPRIATE WATER IN UTAH

Flow rate — c.f.s.	Cost	
0.0 to 0.1	\$ 15.00	
over 0.1 to 0.5	30.00	
over 0.5 to 1.0	45.00	
over 1.0 to 15.0	45.00	plus \$7.50 for each cfs above the first cubic
over 15.0	150.00	foot per second.

Storage — acre-feet		
0 to 20	22.50	
over 20 to 500	45.00	
over 500 to 7500	45.00	plus \$7.50 for each 500 a.f. above the first
over 7500	150.00	500 acre feet.

(This section is not to be filled in by applicant)

STATE ENGINEER'S ENDORSEMENTS

1. TEMPORARY by mail
August 13, 1985 Application received over counter in State Engineer's office by
2. Priority of Application brought down to, on account of
3. 9-3-85 Application fee, \$ 15.00, received by [Signature] Rec. No. 18872
4. Application microfilmed by Roll No.
5. Indexed by Platted by
6. August 28, 1985 Application examined by [Signature]
7. Application returned, or corrected by office
8. Corrected Application resubmitted by mail to State Engineer's office.
over counter
9. Application approved for advertisement by
10. Notice to water users prepared by
11. Publication began; was completed
12. Notice published in
13. Proof slips checked by
14. Application protested by
15. Publisher paid by M.E.V. No.
16. Hearing held by
17. 8-28-85 Application designated for approval [Signature] S.G.
rejection
18. 9/13/85 Application copied or photostated by slm proofread by
19. 9/13/85 Application approved
rejected
20. **Conditions:**

This Application is approved, subject to prior rights, as follows:

- a. Actual construction work shall be diligently prosecuted to completion.
- b. Proof of Appropriation shall be submitted to the State Engineer's office by NPR
- c. TEMPORARY APPROVAL -- EXPIRES September 13, 1986.

[Signature]
Robert L. Morgan, P.E., State Engineer

21. Time for making Proof of Appropriation extended to
22. Proof of Appropriation submitted.
23. Certificate of Appropriation, No., issued

TEMPORARY

Application No. T 61229

09-1437

WATER RIGHTS DATA BASE
 ENTERED - DATE 8/28/85 BY [Signature]
 VERIFIED - DATE 8/28/85 BY [Signature]



**Marathon
Oil Company**

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

September 18, 1985

"Registered Mail Return Receipt Requested"

Bureau of Land Management
P.O. Box 970
82 E. Dogwood
Moab, Utah 84532
Attn: Mr. Greg Noble

Dear Mr. Noble:

Enclosed please find three complete packages of the "Application for Permit to Drill" Cave Canyon #1-33 located SW SE 660' FSL, 1787' FEL, Section 33, T37S, R24E, SLM, San Juan County, Utah.

Thank you for your cooperation in dealing with this project.

Very truly yours,

MARATHON OIL COMPANY

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

Doyle L. Jones
District Production Manager

DLJ:FMK:mrt
Enclosures

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.

Federal U-40751

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

8. Farm or Lease Name

Cave Canyon

9. Well No.

1-33

10. Field and Pool, or Wildcat

✓ Wildcat

11. Sec., T., R., M., or Bk. and Survey or Area

Sec. 33, T37S, R24E

12. County or Parrish 13. State

San Juan 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

Marathon Oil Company

3. Address of Operator

P.O. Box 2659, Casper, Wyoming 82602

4. Location of Well (Report location clearly and in accordance with any State requirements.*)

At surface

SW SE 660' FSL & 1787' FEL

At proposed prod. zone

14. Distance in miles and direction from nearest town or post office*

Approximately 1/2 miles Northwest of Hatch Trading Post

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

660'

16. No. of acres in lease

961.88

17. No. of acres assigned to this well

80

18. Distance from proposed location* to nearest well, drilling, completed, or applied for, on this lease, ft.

N/A

19. Proposed depth

6107'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DP, RT, GR, etc.)

5378' Ungraded GL

22. Approx. date work will start*

Third Quarter 1985

23.

PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
Please Refer to items #4A, #4B, and #6 of Drilling Operations Plan				

Please see the following Attachments:

1. Surveyor's Plat
2. Drilling Operations Plan and 13 Point Surface Use Plan
3. Maps and Diagrams

The person responsible for the APD is Frank Krugh, Marathon Oil Company

Office: (307) 577-1555

Home: (307) 235-4506

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

DATE: 9/26/85

BY: John R. Burr

WELL SPACING: C-3 (e)

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.

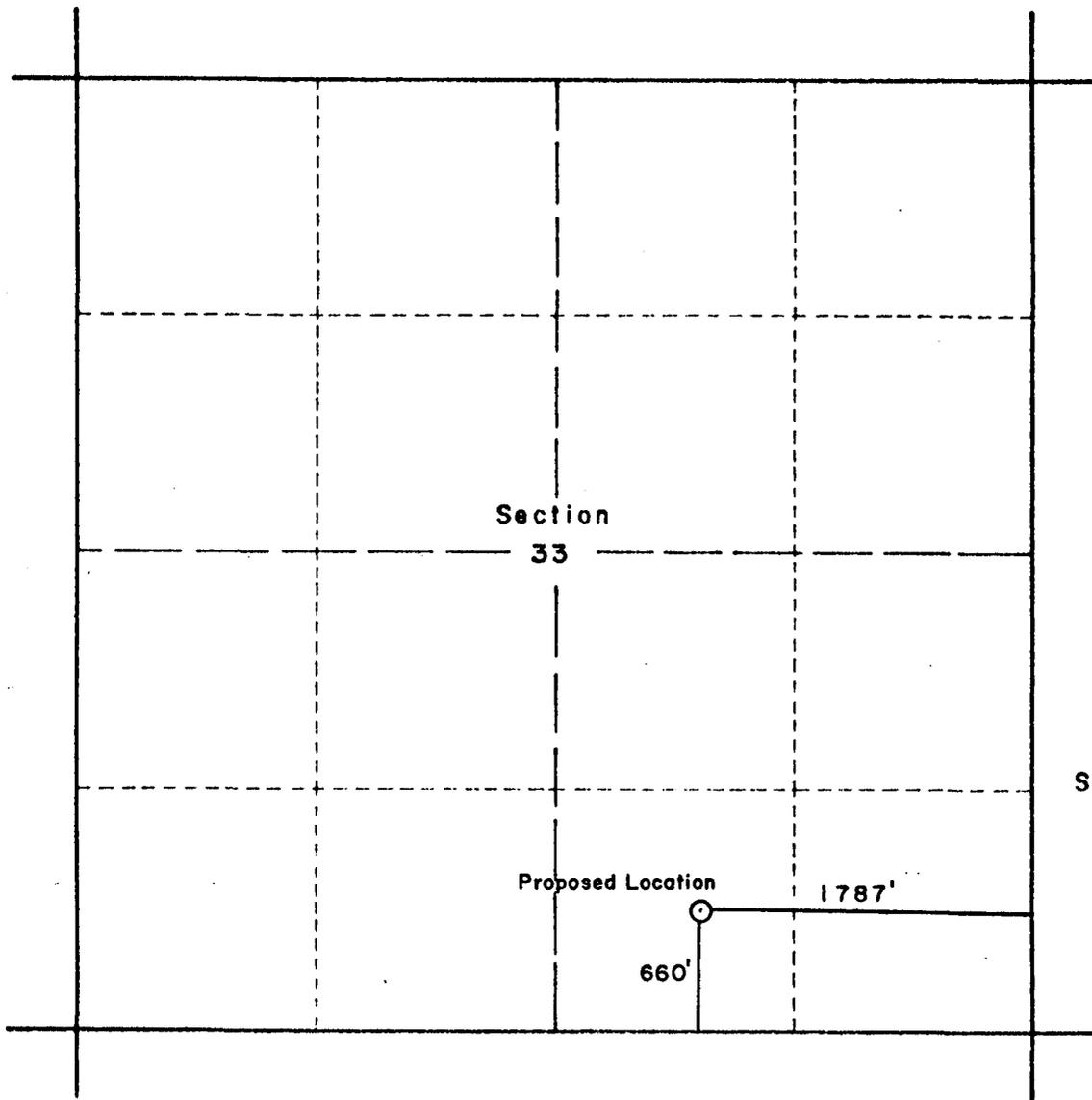
24. Signed: Doyle L Jones Title: District Production Manager Date: September 18, 1985

(This space for Federal or State office use)

Permit No. 43-037-31198 Approval Date

Approved by: Title: Date:

Conditions of approval, if any:



Scale: 1" = 1000'

WELL LOCATION: MARATHON OIL CO.-CAVE CANYON # 1-33

Located 660 feet North of the South line and 1787 feet West of the East line of Section 33,
 Township 37 South, Range 24 East, Salt Lake Meridian,
 San Juan County, Utah.
 Existing ground elevation determined at 5378 feet based on U.S.G.S. datum.

I hereby certify that the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H. Reed

FREDERICK H. REED
 Registered Land Surveyor

MARATHON OIL COMPANY
 Casper, Wyoming

WELL LOCATION PLAT
 Cave Canyon # 1-33
 Sec. 33, T. 37 S., R. 24 E.
 San Juan County, Utah

CLARK-REED & ASSOC.
 Durango, Colorado

DATE: AUG. 14, 1985
 FILE NO. 85031

MARATHON OIL COMPANY
 Cave Canyon #1-33
 Drilling Operations Plan
 660' FSL, 1,787' FEL, Section 33, T37S, R24E
 San Juan County, Utah
 Elevation: 5,391' K.B. (Est.)
 5,378' G.L.
 September 5, 1985

1. Geologic name of surface:

Morrison

2. Estimated tops of important geologic markers:

<u>Formation</u>	<u>Depth (K.B.)</u>	<u>Datum</u>	<u>Formation</u>	<u>Depth (K.B.)</u>	<u>Datum</u>
Carmel	983'	+4,408'	Paradox	5,580'	- 189'
Navajo	1,026'	+4,365'	Upper Ismay	5,735'	- 344'
Kayenta	1,476'	+3,915'	Hovenweep	5,870'	- 479'
Wingate	1,666'	+3,725'	Lower Ismay	5,902'	- 511'
Chinle	1,911'	+3,480'	Gothic	5,957'	- 566'
Shinarump	2,626'	+2,765'	Desert Creek	5,987'	- 596'
Moenkopi	2,730'	+2,661'	Chimney Rock	6,062'	- 671'
Cutler	2,945'	+2,446'	Akah	6,087'	- 696'
Honaker Trail	4,720'	+ 671'	T.D.	6,107'	- 716'

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

<u>Formation</u>	<u>Depth (K.B.)</u>	<u>Possible Content</u>
Navajo	1,026'	Fresh Water
Cutler	2,945'	Brine
Honaker Trail	4,720'	Oil
Ismay*	5,735'	Oil
Desert Creek*	5,987'	Oil

* Primary Objective

4a. The casing program including the size, grade, weight, whether new or used, and a setting depth of each string:

<u>Min. Hole Size</u>	<u>Casing O.D.</u>	<u>Grade</u>	<u>Weight</u>	<u>Setting Depth</u>	<u>New or Used</u>	<u>Cplg</u>
20"	16"	Thinwall Steel Pipe		60'	New	N/A
12 1/4"	9 5/8"	K-55	36#	1,500'	New	ST&C
8 3/4"	5 1/2"	K-55	15.5#	5,600'	New	ST&C
		K-55	17#	6,107'	New	ST&C

4b. The cementing program including type, amounts, and additives:

9 5/8" Casing

Cement Height: 1,500'

Lead Slurry: $1,000' \times .3132 \text{ ft}^3/\text{ft} \times 2.0 = 626 \text{ ft}^3$
Light cement with 1/4 pound per sack flocele and 2% CaCl_2 .

Weight: 12.7 ppg
Yield: 1.84 ft^3/sack
Water Requirement: 9.9 gal/sack
Sacks: 340 sacks

Tail Slurry: $500' \times .3132 \text{ ft}^3/\text{ft} \times 2.0 = 313 \text{ ft}^3$
Class "B" with 1/4 pound per sack flocele and 2% CaCl_2 .

Weight: 15.6 ppg
Yield: 1.18 ft^3/sack
Water Requirement: 5.2 gal/sack
Sacks: 265 sacks

Casing Equipment will include a float shoe, a float collar, and three centralizers. WOC time will be minimum of 6 hours.

5 1/2" Casing

Preflush: 20 Barrels

Cement Height: 4,607'

Lead Slurry: $4,007' \times .2526 \text{ ft}^3/\text{ft} \times 1.25 = 1,265 \text{ ft}^3$
Light cement with 1/4 pound per sack flocele, fluid loss additive, and retarder for four hour pumping time.

Weight: 12.7 ppg
Yield: 1.84 ft^3/sack
Water Requirement: 9.9 gal/sack
Sacks: 687 sacks

Tail Slurry: $600' \times .2526 \times 1.25 = 189 \text{ ft}^3$
Class "B" with 1/4 pound per sack flocele, fluid loss additive and retarder for four hour pumping time.

Weight: 15.6 ppg
Yield: 1.18 ft^3/sack
Water Requirement: 5.2 gal/sack
Sacks: 160 sacks

Casing Equipment will include a float shoe, float collar, and centralizers across the Desert Creek and Ismay zones. Wire scratchers will be run across the Desert Creek and Ismay zones and the casing will be reciprocated during cementing.

5. B.O.P. specification and testing: (see the attached schematic diagram for size and pressure ratings):

One dual ram BOP with pipe rams, blind rams, and an annular preventer will be used. All equipment will have a minimum working pressure of 3,000 psi. The accumulator will be of sufficient size to open and close all BOP stack components without operating the pump. Operation of the BOP will be checked daily. The blind rams, pipe rams, and annular preventer will be pressure tested to 1,000 psi prior to drilling out of the surface casing. After drilling casing shoe and five feet of additional formation, a shoe test will be performed to 13.0 ppg equivalent mud weight or leakoff, whichever comes first.

6. Mud program and anticipated pressures:

<u>From</u>	<u>To</u>	<u>Type Mud</u>	<u>Weight</u>	<u>% Oil</u>	<u>Water Loss</u>
0'	1,500'	Spud	8.5-9.0	0	No Control
1,500'	2,945' Cutler	Gel/Water	8.5-9.0	0	No Control
2,945' Cutler	5,735' Upr. Ismay	Gel/Chemical	9.0-10.0	0	10.0-17.0 cc's
5,735' Ismay	T.D.	Gel/Chemical	As Required	0	< 10 cc's

7a. Type of drilling tools and auxiliary equipment:

A drilling rate recorder, calibrated to record drilling time for each one foot interval will be used.

A kelly cock will be used and a full opening safety valve will be available on the rig floor.

The mud system will include a desander/desilter, gas buster or degasser.

A manual adjustable choke will be used.

A single shot drift indicator will be used.

7b. Deviation Control:

<u>From</u>	<u>To</u>	<u>Maximum Distance Between Surveys</u>	<u>Maximum Deviation From Vertical</u>	<u>Maximum Change Per 100' of Depth</u>
0'	1,500'	250'	1°	1°
1,500'	T.D.	500'	5°	1°

8. Sample, logging, testing, and coring program:

Samples: Taken every 10' interval from surface to T.D.

Testing: A total of three DST's, which include two in the Ismay and one in the Desert Creek.

- Logging:
1. DIL/GR from 1,500' to surface.
 2. DLL/MSFL/GR, BHC Sonic-VDL-GR, and LDT-CNL-GR or FDC-CNL-GR from T.D. to surface casing.
 3. HDT Dipmeter and Coriband/Cyberlook from T.D. to surface casing.

9. Anticipated pressures or temperatures:

Maximum anticipated bottom hole pressure is approximately 3,000 psi.

Maximum anticipated bottom hole temperature is approximately 135° F.

10. The anticipated starting date and duration of operation:

Starting Date: _____

Duration: 27 days

DISTRICT APPROVALS

Approved _____ Date _____

Ray R. White _____ 9-13-85

DIVISION APPROVALS

Approved _____ Date _____

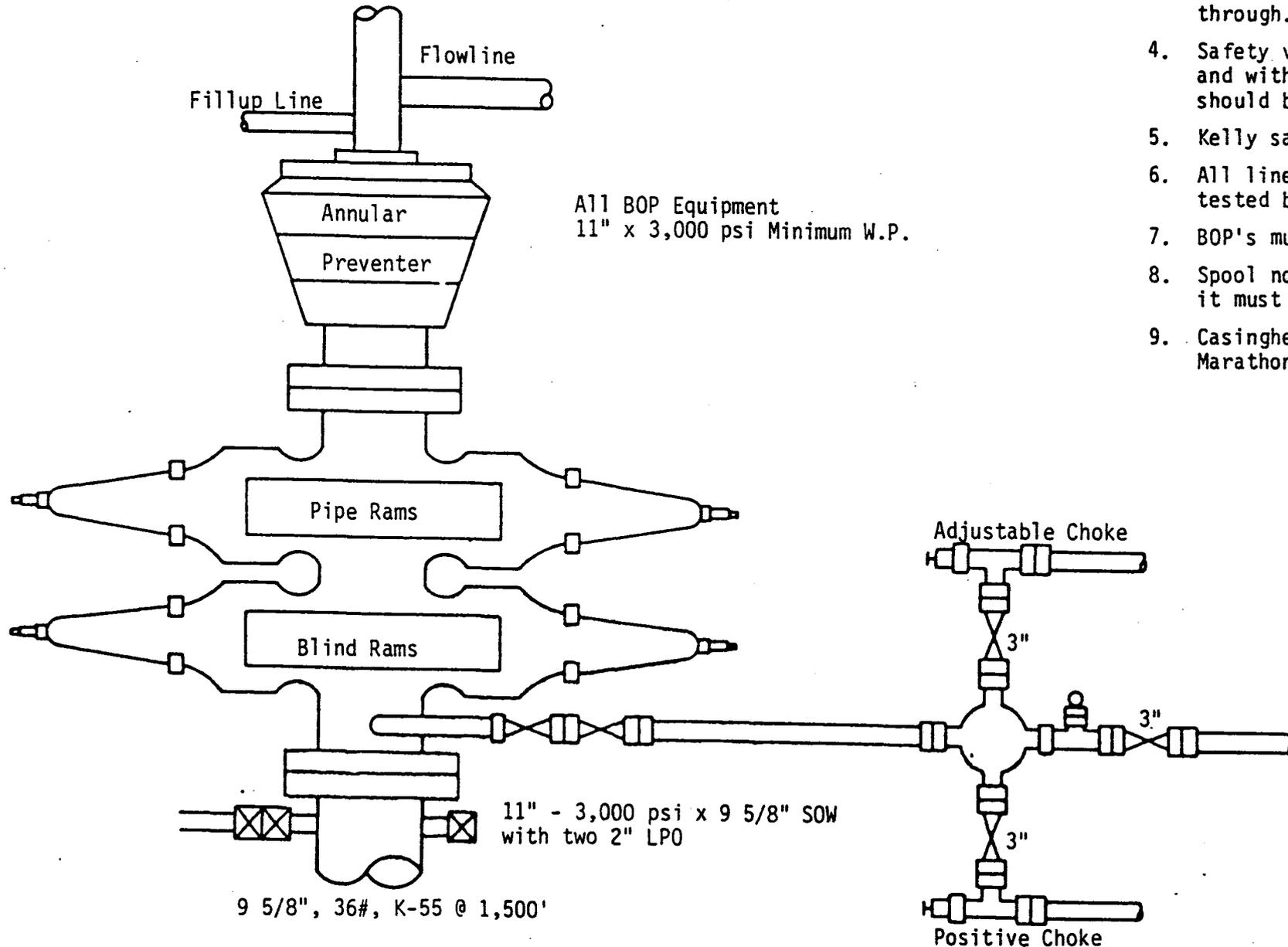
CASING DESIGN

CAVE CANYON #1-33
San Juan County, Utah

CASING	API/NON-API DRIFT	SETTING DEPTH	SECTION LENGTH	TENSION - 1,000 lb.			COLLAPSE				BURST		
				STRENGTH	FORCE	S.F.	STRENGTH	FORCE	REDUCED STRENGTH	S.F.	STRENGTH	FORCE	S.F.
<u>SURFACE</u>													
9 5/8", 36#, K-55, ST&C	8.756"	1,500'	1,500'	423	47.0	9.0	2,020	1,092	2,020	1.85	3,520	1,544	2.28
<u>PRODUCTION</u>													
5 1/2", 15.5#, K-55, ST&C	4.825"	5,600'	5,600'	222	80.4	2.76	4,040	3,607	4,040	1.12	4,810	2,505	1.92
5 1/2", 17.0#, K-55, ST&C	4.767"	6,107'	507'	252	7.2	34.7	4,910	4,024	4,910	1.22	5,320	2,545	2.09

Cave Canyon #1-33
 Section 33, T37S, R24E
 San Juan County, Utah

1. Blowout preventers, master valve, plug valve and all fittings must be in good condition. Use new API Seal Rings.
2. All fittings (gates, valves, etc.) to be of equivalent pressure rating as preventers. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BOP to be plug type and nominal 3".
3. Equipment through which bit must pass shall be as large as the inside diameter of the casing that is being drilled through.
4. Safety valve must be available on rig floor at all times and with proper connections. The I.D. of safety valves should be as great as I.D. of tool joints on drill pipe.
5. Kelly safety valve installed, same working pressure as BOP's.
6. All lines and controls to preventers must be connected and tested before drilling out of surface pipe.
7. BOP's must be fluid operated, complete with accumulator.
8. Spool not required, but when side outlet on BOP's is used, it must be below bottom ram.
9. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.



MOAB DISTRICT

CONDITIONS OF APPROVAL FOR PERMIT TO DRILL

Company Marathon Oil Company Well Name Cave Canyon #1-33
Location Sec. 33 , T. 37 S., R. 24 E. Lease No. U- 40751
SW SE 660' F S L, 1787' F E L

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Order No. 1, and the approved plan of operations. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

A. DRILLING PROGRAM.

1. Surface Formation and Estimated Formation Tops: Refer to Item #2 in attachment "Drilling Operations Plan."
2. Estimated Depth at Which Oil, Gas, Water, or Other Mineral Bearing Zones Are Expected to be Encountered:

	<u>Formation</u>	<u>Zone</u>
Expected oil zones:	<u>Refer to Item #3 in attachment</u>	
Expected gas zones:	<u>"Drilling Operations Plan."</u>	
Expected water zones:	<u>_____</u>	
Expected mineral zones:	<u>_____</u>	

All fresh water and prospectively valuable minerals (as described by BLM at onsite) encountered during drilling, will be recorded by depth, cased, and cemented. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment: Refer to Item #5 in attachment "Drilling Operations Plan."

BOP systems will be consistent with API RP 53. Pressure tests will be conducted before drilling out from under all casing strings which are set and cemented in place. Blowout preventor controls will be installed prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers will be pressure tested before drilling casing cement plugs.

4. Casing Program and Auxiliary Equipment:

Anticipated cements tops will be reported as to depth, not the expected number of sacks.

Refer to Items #4A, #4B, #7A, and #7B in attachment "Drilling Operations Plan."

5. Mud Program and Circulating Medium: Refer to Item #6 in attachment "Drilling Operations Plan."

6. Coring, Logging and Testing Program: Refer to Item #8 in attachment "Drilling Operations Plan."

Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (Form 3160-4) will be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3164. Two copies of all logs, core descriptions, core analysis, well-test data, geologic summaries, sample description, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, will be filed with Form 3160-4. If requested, samples (cuttings, fluids, and/or gases) will be submitted to the District Manager.

7. Abnormal Conditions, Bottom Hole Pressures and Potential Hazards:

Refer to Item #9 in attachment "Drilling Operations Plan."

Final abandonment will not be approved until the surface reclamation work required by the approved APD or approved abandonment notice has been completed to the satisfaction of the San Juan Area Manager, or the appropriate surface manager.

Approval to vent/flare gas during initial well evaluation will be obtained from the District Office. This preliminary approval will not exceed 30 days or 50 MMCF gas. Approval to vent/flare beyond this initial test period will require District Office approval pursuant to guidelines in NTL-4A.

Upon completion of approved plugging, a regulation marker will be erected in accordance with 43 CFR 3162.6. The following information will be permanently beaded-on with a welding torch: Fed, Well number, location by $\frac{1}{4}$ section, township and range, Lease number.

A first production conference will be scheduled within 15 days after receipt of the first production notice. The San Juan Area Manager will schedule the conference.

Other: _____

B. THIRTEEN POINT SURFACE USE PLAN

1. Existing Roads:

- a. Location of proposed well in relation to town or other reference point: See Diagram "A" color coded red.

- b. Proposed route to location: See Diagram "A" color coded red.
See copy of Surveyor's Plat of Proposed Access Road.
- c. Plans for improvement and/or maintenance of existing roads: The existing road, County Road #204, will be maintained in as good or better shape than it now exists.

The maximum total disturbed width will be 20 feet.
- d. An encroachment permit will be obtained from the San Juan County Road Dept., (301) 587-2231, ext. 43.
- e. Other: Please find enclosed a Right-of-way application and a check for \$70.00 to cover the fees associated with the application for right-of-way which will cross through the NW NW Section 3, T38S, R24E and the NE NE of Section 4, T38S, R24E before it crosses Marathon's lease. This Right-of-way will be for approximately 1000' of access. The right-of-way will use Duncan's access from the County Road #204 to their well site.

2. Planned Access Roads:

- a. The maximum total disturbed width will be 30 feet.
- b. Maximum grade: <7%
- c. Turnouts: None will be needed
- d. Location (centerline): Has been flagged and staked
- e. Drainage: 1-36" Culvert will be needed to cross a drainage.
- f. Surface Materials: Native Materials
- g. Other: The BLM preferred the use of Duncan's access as part of the planned Access Route. A right-of-way application and associated fees are enclosed. Please refer to Diagram "A" color coded blue for the location of the above mentioned Right-of-Way. Up-keep of this Right-of-Way will be determined by the involved companies, primarily Duncan and Marathon.

Surface disturbance and vehicular travel will be limited to the approved location and approved access route. Any additional area needed will be approved in advance by the San Juan Area Manager.

The access road will be water barred or brought to Class III Road Standards within 60 days of dismantling of the drill rig. If this time frame cannot be met, the San Juan Area Manager will be notified so that temporary drainage control can be installed along the access road.

The Class III Road Standards which ensure drainage control over the entire road through the use of natural, rolling topography; ditch turnouts; drainage dips; outsloping; crowning; low water crossings; and culverts will be determined at the appropriate field inspection.

3. Location of Existing Wells: See Diagram "A"

4. Location of Tank Batteries and Production Facilities:

All permanent (on site for 6 months or longer) above ground facilities (including pump jacks) will be painted a flat, nonreflective, earthtone color to match the standard environmental colors, as determined by the Rocky Mountain 5-State Interagency Committee. All facilities will be painted within 6 months of

installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The color will be Sandstone.

If a tank battery is constructed on this lease, it will be surrounded by a dike of sufficient capacity to contain $1\frac{1}{2}$ times the storage capacity of the battery.

All loading lines will be placed inside the berm surrounding the tank battery.

All site security guidelines identified in 43 CFR 3162.7 regulations will be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed.

All off-lease storage, off-lease measurement, or commingling on-lease or off-lease will have prior written approval from the District Manager.

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 will be housed and/or fenced.

The oil and gas measurement facilities will be installed on the well location. The oil and gas meters will be calibrated in place before any deliveries. Tests for meter accuracy will be conducted monthly for the first 3 months on new meter installations and at least quarterly thereafter. The San Juan Area Manager will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports will be submitted to the San Juan Area Manager. All meter measurement facilities will conform with the API standards for liquid hydrocarbons and the AGA standard for natural gas measurement.

5. Location and Type of Water Supply:

All water needed for drilling purposes will be obtained from:
Primary Secondary
Perkins Ranch, Montezuma Creek, Please refer to Diagram "A" for locations.

Use of water for this operation will be approved by obtaining a temporary use permit from the Utah State Engineer, (801) 637-1303 and by receiving permission from the land owner or surface management agency to use the land containing the water source.

6. Source of Construction Material:

Pad Construction material will be obtained from: _____
Native Material

The use of materials under BLM jurisdiction will conform to 43 CFR 3610.2-3. Construction material (will/will not) be located on lease.

7. Methods of Handling Waste Disposal:

The reserve pit (XXXX/will not) be lined with commercial bentonite sufficient to prevent seepage. At least half of the capacity will be in cut.

Three sides of the reserve pit will be fenced with four strands of barbed wire before drilling starts. The fourth side will be fenced as soon as the drilling is completed. The fence will be kept in good repair while the pit is drying.

A trash cage will be used at this location. Waste will be hauled to an approved landfill as needed.

A burning permit is required for burning trash between May 1 and October 31. This can be acquired by contacting the State Fire Warden, John Baker, at (301) 587-2705.

Produced waste water will be confined to a (lined/unlined) pit for a period not to exceed 90 days after initial production. During the 90 day period an application for approval of a permanent disposal method and location, along with the required water analysis, will be submitted for the District Manager's approval pursuant to Onshore Oil and Gas Order No. 3 (NITL-2B).

8. Ancillary Facilities:

Camp facilities (XXXX/will not) be required. They will be located: _____

9. Well Site Layout:

The reserve pit will be located: North

The top 6 inches of soil material will be removed from the location and stockpiled separate from the trees on the North side. Topsoil along the access will be reserved in place.

Access to the well pad will be from: East

10. Reclamation:

- a. Immediately on completion of drilling, all trash and debris will be collected from the location and surrounding area. All trash and debris will be disposed of in the trash pit and will then be compacted and buried under a minimum of two feet of compacted soil.
- b. The operator /holder or his contractor will contact the San Juan Resource Area office in Monticello, Utah, (801) 587-2201, 48 hours before starting reclamation work that involves earthmoving equipment and upon completion of restoration measures.
- c. Before any dirt work to restore the location takes place, the reserve pit must be completely dry.
- d. All disturbed areas will be recontoured to blend as nearly as possible with the natural topography. This includes removing all berms and refilling all cuts.
- e. The stockpiled topsoil will be spread evenly over the disturbed area. All disturbed areas will be ripped 12 inches deep with the contour.
- f. Water bars will be built as follows to control erosion.

<u>Grade</u>	<u>Spacing</u>
2%	Every 200 feet
2-4%	Every 100 feet
4-5%	Every 75 feet
5+%	Every 50 feet

- g. Seed will be broadcast between October 1 and February 28 with the following prescription. A harrow or similar implement will be dragged over the area to assure seed cover.

<u> </u>	<u>1bs/acre Indian ricegrass (Oryzopsis hymenoides)</u>
<u> </u>	<u>1bs/acre Galleta (Hilaria jamesii)</u>
<u> </u>	<u>1bs/acre crested wheatgrass (Agropyron desertorum)</u>
<u> 5</u>	<u>1bs/acre Western wheatgrass (Agropyron smithii)</u>
<u> </u>	<u>1bs/acre Alkali sacaton (Sporobolus airoides)</u>
<u> </u>	<u>1bs/acre Sand dropseed (Sporobolus cryptandrus)</u>
<u> 2</u>	<u>1bs/acre Fourwing saltbush (Atriplex canescens)</u>
<u> </u>	<u>1bs/acre Shadscale (Atriplex confertifolia)</u>
<u> </u>	<u>1bs/acre Green ephedra (Ephedra viridis)</u>
<u> </u>	<u>1bs/acre Cliffrose (Cowania mexicana)</u>
<u> </u>	<u>1bs/acre Desert bitterbrush (Furnsia glandulosa)</u>
<u> </u>	<u>1bs/acre Winterfat (Eurotia lanata)</u>
<u> </u>	<u>1bs/acre Globemallow (Sphaeralcea ambigua)</u>
<u> 1</u>	<u>1bs/acre Wild sunflower (Helianthus annuus)</u>
<u> </u>	<u>1bs/acre</u>

- h. After seeding is complete, the stockpiled trees will be scattered evenly over the disturbed areas. The access will be blocked to prevent vehicular access.
- i. The reserve pit and that portion of the location and access road not needed for production or production facilities will be reclaimed as described in the reclamation section. Enough topsoil will be kept to reclaim the remainder of the location at a future date. This remaining stockpile of topsoil will be seeded in place using the prescribed seed mixture.

11. Surface Ownership: Federal

Mineral Ownership: Federal

12. Other Information: This area is located within a Deer Winter Range which runs from December 1 to March 31. If drilling has started prior to December 1, drilling can proceed until work has been completed

There will be no change from the proposed drilling and/or workover program without prior approval from the District Manager. Safe drilling and operating practices must be used. All wells, whether drilling, producing, suspended, or abandoned will be identified in accordance with 43 CFR 3162.2.

"Sundry Notice and Report on Wells" (Form 3160-5) will be filed for approval for all changes of plans and other operations in accordance with 43 CFR 3164.

The dirt contractor will be provided with an approved copy of the surface use plan.

If subsurface cultural materials are exposed during construction, work in that spot will stop immediately and the San Juan Resource Area Office will be contacted. All people who are in the area will be informed by the operator/holder that they are subject to prosecution for disturbing archaeological sites or picking up artifacts. Salvage or excavation of identified archaeological sites will be done by a BLM approved archaeologist only if damage occurs.

This permit will be valid for a period of one year from the date of approval. After permit termination a new application will be filed for approval for any future operations.

Your contact with the District Office is: Greg Noble
Office Phone: 801-259-6111 Address: P.O. Box 970, Moab UT 84532

Resource Area Manager's address and contacts:
Address: P.O. Box 7, Monticello, UT 84535

Your contact is: Rich McClure
Office Phone: 801-587-2201

13. Lessee's or Operator's Representative and Certification

Representative

Name: Guy Whitlock
Address: P.O. Box 2659, Casper, Wyoming 82602
Phone No.: (307) 577-1555

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 currently 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

Marathon Oil Company
Operator's Name

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

August 26, 1985
Date

Douglas J. [Signature] District
Production Manager
Name and Title

ON-SITE

DATE: August 15, 1985

PARTICIPANTS:

Rich McClure

Patrick Harden

Howard Hughes

Jim Perkins, Lou Jobe

Ray Rosenthal, Frank Krugh

REPRESENTING:

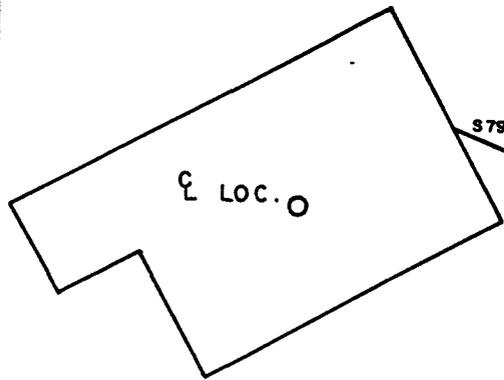
Bureau of Land Management

Laplata Archeological Consultants

Dirt Contractor

Clark Reed and Associates - Surveyors

Marathon Oil Company



S79°E
75'

S54°E
455'

☉ PROPOSED ACCESS ROAD

S27°E
200'

S20°E
147'

S47°E
75'

S72°E
210'

S48°E
250'

S62°E
250'

N52°E 457'
TO S.E. COR. SEC. 33

☉ Existing Road

SECTION 33
SECTION 4

SCALE: 1" = 200'

MARATHON OIL COMPANY
Casper, Wyoming

PROPOSED ACCESS ROAD
CAVE CANYON # 1-33
Sec. 33, T. 37S., R. 24 E
San Juan County, Utah

CLARK-REED & ASSOC.
Durango, Colorado

DATE: AUG. 14, 1985
FILE NO: 05031



I hereby certify the above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick M. Reed
FREDERICK M. REED
Registered Land Surveyor

B.M. 250' EAST ELEV. - Top of stake - 5375.6'

MARATHON OIL CO. - CAVE CANYON #1-33

SW/4, SE/4, SEC. 33, T. 37 S., R. 24 E., S.L.M., SAN JUAN COUNTY, UTAH

SCALE: 1" = 50'
Contour Interval = 5'

CROSS SECTIONS

HORIZONTAL SCALE: 1" = 50'

VERTICAL SCALE: 1" = 20'

Design Elevation - 5375'

TOTAL VOLUMES

CUT = 6707 CU. YDS.

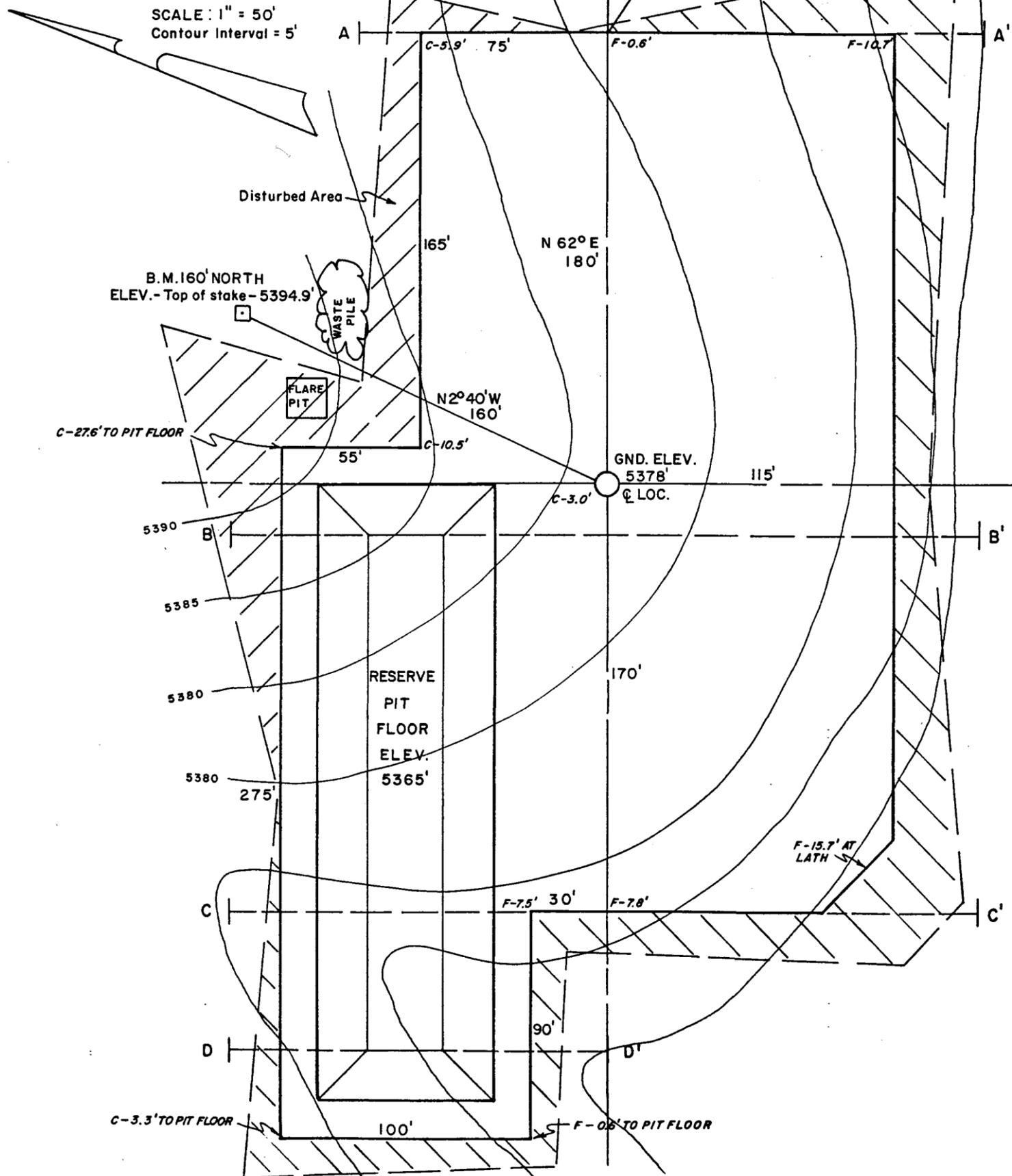
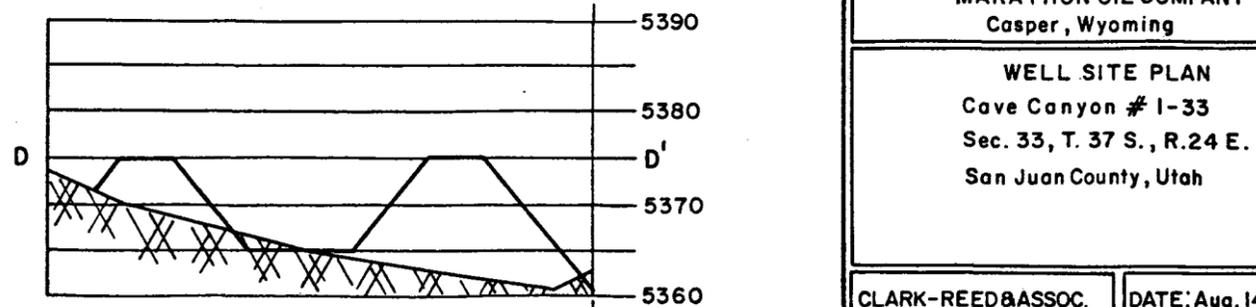
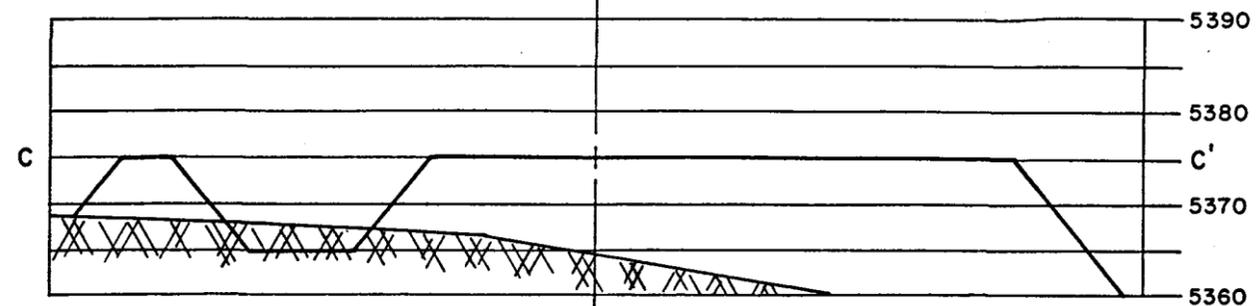
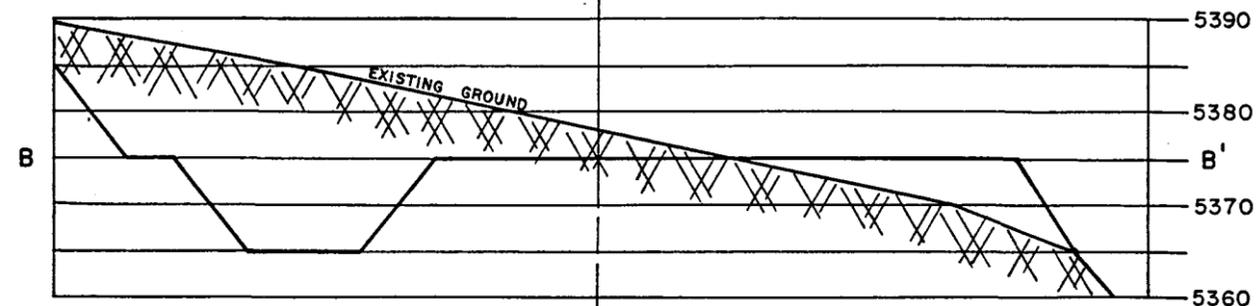
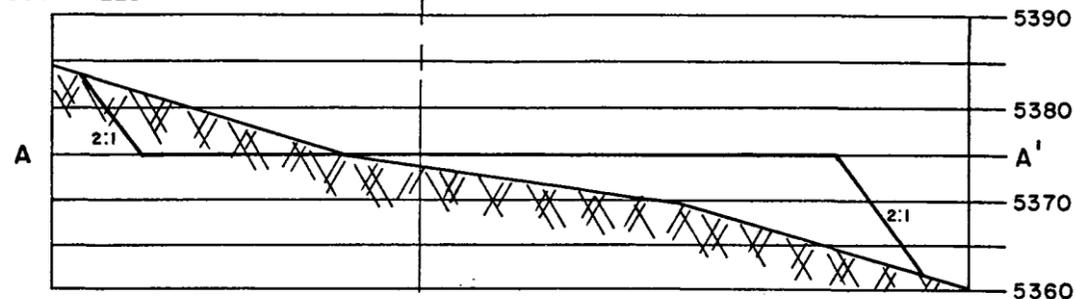
FILL = 10225 CU. YDS.

TOP SOIL = 1586 CU. YDS.

BORROW = 5104 CU. YDS.

RESERVE PIT CAPACITY - 20036 BARRELS

Q LOC.



MARATHON OIL COMPANY Casper, Wyoming	
WELL SITE PLAN Cave Canyon # 1-33 Sec. 33, T. 37 S., R. 24 E. San Juan County, Utah	
CLARK-REED & ASSOC. Durango, Colorado	DATE: Aug. 14, 1985 FILE NO.: 85031



**Marathon
Oil Company**

P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/577-1555

September 18, 1985

RECEIVED

SEP 23 1985

**DIVISION OF OIL
GAS & MINING**

State of Utah
Division of Oil, Gas and Mining
Attn: Mr. John Baza
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203

"Registered Mail Return Receipt Requested"

RE: Exception to the location for the proposed well Cave Canyon
#1-33 located SW SE 660' FSL, 1787' FEL, Section 33, T37S,
R24E, SLM, San Juan County, Utah.

Dear Mr. Baza:

Persuant to Rule C-3 (c) of the Oil and Gas Conservation General Rules and Regulations Orders, Marathon Oil Company is requesting that the unorthodox location for Cave Canyon #1-33 be approved by the State of Utah, Division of Oil, Gas and Mining.

Due to the presence of archeological sites discovered during the surveying of the wellsite, it was necessary to relocate the wellsite further to the east, making the wellsite fall thirty three feet outside the allowable drilling window. All leases within a 660' radius are owned by Marathon Oil Company. Please refer to the attached map which shows Marathon's lease holdings surrounding the proposed location. Also attached please find the Archeological Report which clarifies where the archeological sites are located in relationship to the proposed wellsite.

Three copies of the "Application for Permit to Drill" are also enclosed in this package for your review.

Your cooperation in dealing with this project is greatly appreciated.

Sincerely,

MARATHON OIL COMPANY

A handwritten signature in cursive script, appearing to read 'Doyle L. Jones'.

Doyle L. Jones
District Production Manager

DLJ:FMK:mrt

OPERATOR Marathon Oil Co DATE 9-25-85

WELL NAME Carr Canyon 1-33

SEC SWSE 33 T 37S R 24E COUNTY San Juan

43-037-31198
API NUMBER

Fed.
TYPE OF LEASE

CHECK OFF:

- PLAT
- BOND
- NEAREST WELL
- LEASE
- FIELD
- POTASH OR OIL SHALE

PROCESSING COMMENTS:

No other wells within 1000'

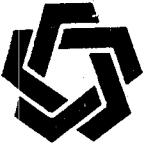
Water R

Exception location requested

APPROVAL LETTER:

- SPACING: A-3 _____ UNIT C-3-a _____ CAUSE NO. & DATE
- C-3-b C-3-c

STIPULATIONS:



STATE OF UTAH
NATURAL RESOURCES
Oil, Gas & Mining

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

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

September 26, 1985

Marathon Oil Company
P. O. Box 2659
Casper, Wyoming 82602

Gentlemen:

Re: Well No. Cave Canyon 1-33 - SW SE Sec. 33, T. 37S, R. 24E
660' FSL, 1787' FEL - San Juan County, Utah

Approval to drill the above-referenced oil well is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure.

In addition, the following actions are necessary to fully comply with this approval:

1. Spudding notification to the Division within 24 hours after drilling operations commence.
2. Submittal to the Division of completed Form OGC-8-X, Report of Water Encountered During Drilling.
3. Prompt notification to the Division should you determine that it is necessary to plug and abandon this well. Notify John R. Baza, Petroleum Engineer, (Office) (801) 538-5340, (Home) 298-7695, or R. J. Firth, Associate Director, (Home) 571-6068.
4. Compliance with the requirements and regulations of Rule C-27, Associated Gas Flaring, General Rules and Regulations, Oil and Gas Conservation.
5. This approval shall expire one (1) year after date of issuance unless substantial and continuous operation is underway or an application for an extension is made prior to the approval expiration date.

The API number assigned to this well is 43-037-31198.

Sincerely,

R. J. Firth
Associate Director, Oil & Gas

as
Enclosures
cc: Branch of Fluid Minerals

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

Marathon Oil Company

3. ADDRESS OF OPERATOR

P.O. Box 2659, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements*)

At surface SW SE 660' FSL & 1787' FEL

At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 12 miles Northwest of Hatch Trading Post

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. 660'

(Also to nearest drlg. unit line, if any)

16. NO. OF ACRES IN LEASE

961.88

17. NO. OF ACRES ASSIGNED TO THIS WELL

80

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

N/A

19. PROPOSED DEPTH

6107'

20. ROTARY OR CABLE TOOLS

Rotary

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

5378' Ungraded GL

22. APPROX. DATE WORK WILL START*

3rd Quarter 85

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please refer to items #4A, #4B, and #6 of Drilling Operations Plan				

Please See the Following Attachments:

1. Surveyor's Plat.
2. Drilling and Operations Plan and 13 Point Surface Use Plan.
3. Maps and Diagrams.
4. Right-of-way Application for access road.

The person responsible for the APD is Frank Krugh, Marathon Oil Company

Office: (307) 577-155

Home : (307) 235-4506

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 Douglas Jones TITLE District Production Manager DATE September 16, 1985

(This space for Federal or State office use)

PERMIT NO. _____ APPROVAL DATE _____

APPROVED BY /S/ GENE NODINE TITLE DISTRICT MANAGER DATE 03 JAN 1985

CONDITIONS OF APPROVAL, IF ANY: _____

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

NOTICE OF APPROVAL SUBJECT TO RIGHT OF WAY APPROVAL

*See Instructions On Reverse Side

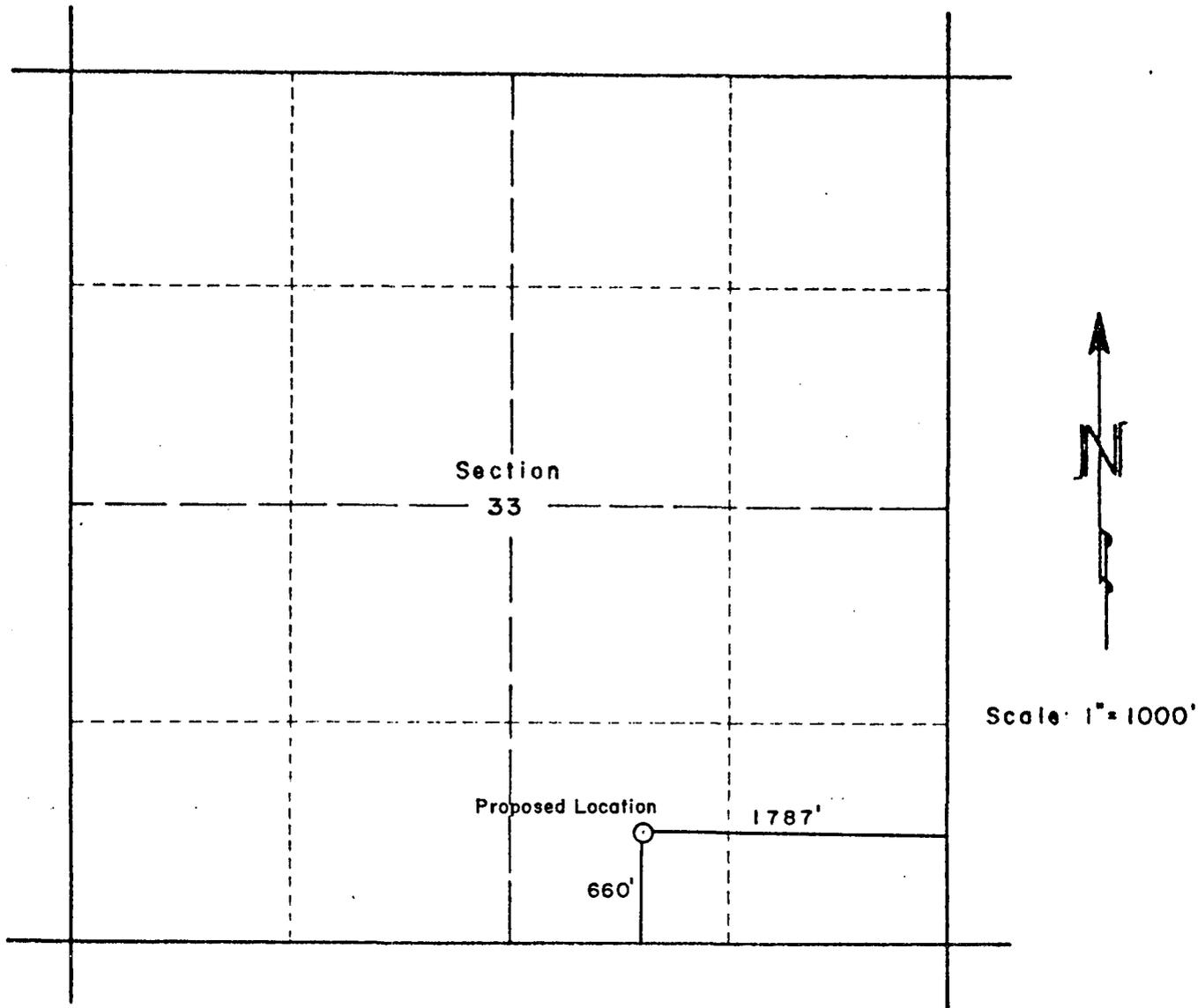
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

REC'D MDO SEP 20 1985 7:45 A.M.

RECEIVED

JAN 06 1986

DIVISION OF OIL GAS & MINING



WELL LOCATION: MARATHON OIL CO.-CAVE CANYON #1-33

Located 660 feet North of the South line and 1787 feet West of the East line of Section 33,
 Township 37 South, Range 24 East, Salt Lake Meridian,
 San Juan County, Utah.
 Existing ground elevation determined at 5378 feet based on U.S.G.S. datum.

I hereby certify that above plat represents a survey made under my supervision and that it is accurate to the best of my knowledge and belief.

Frederick H. Reed

FREDERICK H. REED
 Registered Land Surveyor

MARATHON OIL COMPANY Casper, Wyoming	
WELL LOCATION PLAT Cave Canyon #1-33 Sec. 33, T. 37 S., R. 24 E. San Juan County, Utah	
CLARK-REED & ASSOC. Durango, Colorado	DATE: AUG. 14, 1985 FILE NO: 85031



STATE OF UTAH
 NATURAL RESOURCES
 Oil, Gas & Mining

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

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

090922

September 8, 1986

Marathon Oil Company
 P.O. Box 2659
 Casper, Wyoming 82602

Gentlemen:

RE: Well No. Cave Canyon #1-33, Sec.33, T.37S, R.24E,
 San Juan County, Utah, API NO. 43-037-31198

In concert with action taken by the U.S. Bureau of Land Management, approval to drill the above referenced well is hereby rescinded. A new Application for Permit to Drill must be filed with this office for approval, prior to future drilling of the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division of Oil, Gas and Mining immediately.

Sincerely,

John R. Baza
 John R. Baza
 Petroleum Engineer

sb
 cc: BLM-Moab
 D. R. Nielson
 R. J. Firth
 Well file
 0278T-108

RECEIVED

SEP 24 1986

**DIVISION OF
OIL, GAS & MINING**

Moab District
P. O. Box 970
Moab, Utah 84532

SEP 23 1986

092910 LA

3162 (U-065)
(U-40751)

Marathon Oil Company
P. O. Box 2659
Casper, WY 82602

Re: Application for Permit to Drill
Well No. Cave Canyon 1-33
Sec. 33, T. 37 S., R. 24 E.
San Juan County, Utah
Lease U-40751

Gentlemen:

The Application for Permit to Drill the above well was approved January 3, 1986. Since that date, no known activity has transpired at the approved location.

Yates Petroleum Corporation has submitted a new application for a different location with the same well name under designation of operator from Marathon Oil Company.

In view of the foregoing, this office is rescinding the approval of the referenced application. If you have any questions, please contact the Branch of Fluid Minerals (801) 259-6111.

Sincerely yours,

/S/ GENE NODINE

District Manager

cc: San Juan Resource Area
State of Utah, Division of Oil, Gas and Mining ✓

bcc: Utah State Office, U-942

CFreudiger/cf 9/19/86