

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-39243** INDIAN

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

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: **5972' 6R**

DATE ABANDONED: **O/A. Application Rescinded 9-8-86**

FIELD: **WILDCAT**

UNIT:

COUNTY: **SAN JUAN**

WELL NO. **ALKALI POINT 1-7** API #**43-037-31197**

LOCATION **148' FSL** FT. FROM (N) (S) LINE. **1704' FWL** FT. FROM (E) (W) LINE. **SE SW** 1/4 - 1/4 SEC. **7**

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
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<b>37S</b>	<b>24E</b>	<b>7</b>	<b>MARATHON OIL COMPANY</b>				
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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 Alkali Point #1-7 well.

(4) Location: From Hatch Trading Post, Sec. 13, T39S, R24E leading Northwest to the well site, Alkali Point #1-7, located in Sec. 7, T37S, R24E, approximately 18 miles.

City ---- County San Juan State Utah

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

in accordance with the attached plan. (5) See Attached Vicinity Map

(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 aurtherity 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.

Frank M. Krugh  
BY:

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.

Mark 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.

Casper Division  
Production United States



**Marathon  
Oil Company**

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

August 28, 1985

Utah Power and Light  
1407 West North Temple  
Salt Lake City, Utah 84116

Attn: Doug McPhee, RT #198

RE: Four Corners 345 KV Transmission Line Right-of-Way

Dear Mr. McPhee:

Enclosed please find a plat showing the location of Marathon's Alkali Point #1-7 in Sec. 7, T37S-R24E, San Juan County, Utah in relationship to your above-referenced transmission right-of-way.

Our surveyors have determined that the location of our well is 891' from the closest point of the transmission line.

We will be using existing roads to reach the wellsite as shown on the plat. Would you please review our location to see if there are any problems with traveling on existing roads and crossing your right-of-way to reach our location.

If you have any questions or comments or need any further information, please feel free to call.

Thank you for your consideration of this matter.

Sincerely,

A handwritten signature in cursive script that reads "Carl L. Bassett".

Carl L. Bassett  
SW Area Landman

CLB/krj

cc: F. Krugh ✓  
R. Nelson

Enclosure

Casper Division  
Production United States



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

August 28, 1985

Pure Transportation  
Box 66  
Moab, Utah 84532

Attn: Will Bowers

RE: Four Corners 10" Oil Pipeline  
Right-of-Way

Dear Mr. Bowers:

Enclosed please find a plat showing the location of Marathon's Alkali Point #1-7 well in relationship to your above-referenced oil pipeline right-of-way in T37S-R24E, San Juan County, Utah.

Our surveyors have determined that the location of our well is 575' from the closest point of your pipeline.

Would you please review our location to see if there are any problems with crossing your right-of-way with our equipment and drilling an oil and gas well at that site.

If you have any questions or comments, please feel free to call me. I appreciate your consideration of this matter.

Sincerely,

A handwritten signature in cursive script that reads 'Carl L. Bassett'.

Carl L. Bassett  
SW Area Landman

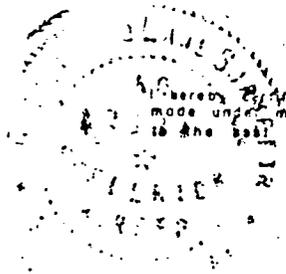
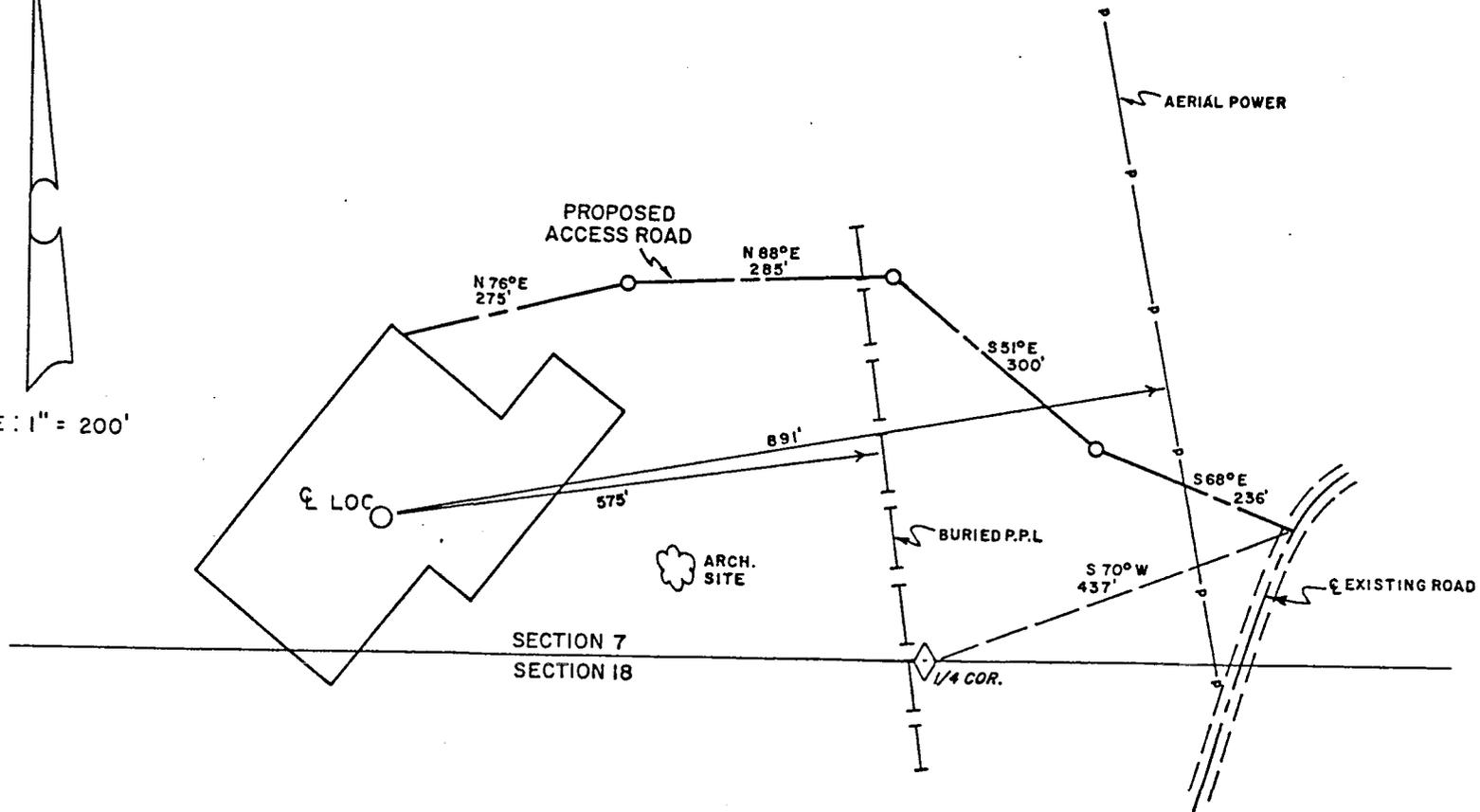
CLB/kvj

cc: F. Krugh ✓  
R. Nelson

Enclosure



SCALE: 1" = 200'



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 H. Reed*

FREDERICK H. REED  
Registered Land Surveyor

MARATHON OIL COMPANY  
Casper, Wyoming

PROPOSED ACCESS ROAD  
ALKALI POINT #1-7  
Sec. 7, 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  
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



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 the ..... day 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

JEMBOUYHA

**FEES 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. August 13, 1985 **TEMPORARY** 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 22, 1985 Application examined by [Signature]
7. .... Application returned, ..... or corrected by office .....
8. .... Corrected Application resubmitted by mail over counter 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.  
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.

Robert L. Morgan  
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 6.1229

09-1437

WATER RIGHTS DATA BASE  
 ENTERED - DATE 8/20/85 BY MSK  
 VERIFIED - DATE 8/28/85 BY MSK

Casper Division  
Production United States



**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" Alkali Point #1-7 located SE SW 148' FSL, 1704' FWL, Section 7, T37S, R25E, SLM, San Juan County, Utah.

Thank you for your cooperation in dealing with this project.

Very truly yours,

MARATHON OIL COMPANY

Doyle L. Jones  
District Production Manager

DLJ:FMK:mrt  
Enclosures

14

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. U-39243
b. TYPE OF WELL OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME -----
2. NAME OF OPERATOR Marathon Oil Company			7. UNIT AGREEMENT NAME -----
3. ADDRESS OF OPERATOR P.O. Box 2659, Casper, Wyoming 82602			8. FARM OR LEASE NAME Alkali Point
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface SE/4 SW/4 148' FSL & 1704' FWL At proposed prod. zone			9. WELL NO. 1-7
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* Approximately 18 miles Northwest of Hatch Trading Post			10. FIELD AND POOL, OR WILDCAT <input checked="" type="checkbox"/> Wildcat
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 148'	16. NO. OF ACRES IN LEASE 2478	17. NO. OF ACRES ASSIGNED TO THIS WELL 80	11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 7, T37S, R24E
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. N/A	19. PROPOSED DEPTH 6510' <i>dash</i>	20. ROTARY OR CABLE TOOLS Rotary	12. COUNTY OR PARISH San Juan
21. ELEVATIONS (Show whether DF, RT, GR, etc.) 5972' Ungraded GL	13. STATE Utah		
23. PROPOSED CASING AND CEMENTING PROGRAM			22. APPROX. DATE WORK WILL START* 3rd Quarter 1985

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

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 *Wagdy Jones* TITLE District Production Manager DATE September 16, 1985

(This space for Federal or State office use)

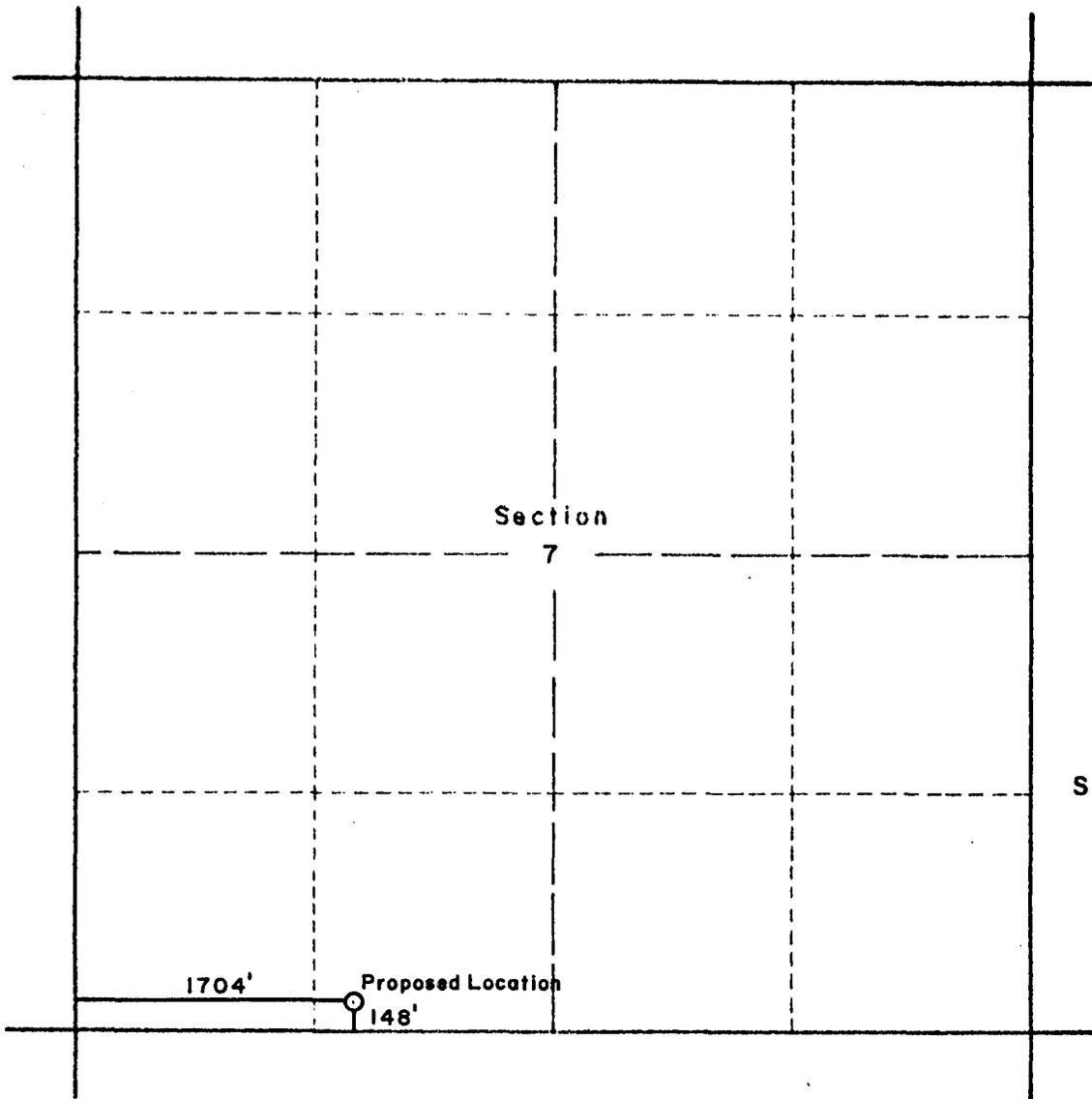
PERMIT NO. 43-037-31197

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

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

DATE: 9/26/85  
BY: *John R. Beyer*  
WELL SPACING: 6-3(C)

\*See Instructions On Reverse Side



**WELL LOCATION: MARATHON OIL CO.-ALKALI POINT #1-7**

Located 148 feet North of the South line and 1704 feet East of the West line of Section 7,  
 Township 37 South, Range 24 East, Salt Lake Meridian,  
 San Juan County, Utah.

Existing ground elevation determined at 5972 feet based on U.S.G.S. datum.

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 H. Reed*

FREDERICK H. REED  
 Registered Land Surveyor

MARATHON OIL COMPANY  
 Casper, Wyoming

WELL LOCATION PLAT  
 Alkali Point #1-7  
 Sec. 7, 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  
 Alkali Point #1-7  
 Drilling Operations Plan  
 148' FSL, 1,704' FWL, Section 7, T37S, R24E  
 San Juan County, Utah  
 Elevation: 5,985' K.B. (Est.)  
 5,972' G.L.  
 August 3, 1985

1. Geologic name of surface:

Dakota

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>
Morrison	626'	+5,359'	Paradox	5,965'	+ 20'
Carmel	1,626'	+4,359'	Upper Ismay	6,145'	- 160'
Navajo	1,669'	+4,316'	Hovenweep	6,295'	- 310'
Kayenta	2,114'	+3,871'	Lower Ismay	6,330'	- 345'
Wingate	2,279'	+3,706'	Gothic	6,378'	- 393'
Chinle	2,489'	+3,496'	Desert Creek	6,406'	- 421'
Shinarump	3,199'	+2,786'	Chimney Rock	6,475'	- 490'
Moenkopi	3,239'	+2,746'	Akah	6,500'	- 515'
Cutler	3,405'	+2,580'	T. D.	6,510'	- 525'
Honaker Trail	5,255'	+ 730'			

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	1,669'	Fresh Water
Cutler	3,405'	Brine
Honaker Trail	5,255'	Oil
Ismay*	6,145'	Oil
Desert Creek*	6,406'	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#	1,950'	New	ST&C
8 3/4"	5 1/2"	K-55	15.5#	5,800'	New	ST&C
		K-55	17#	6,510'	New	ST&C

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

9 5/8" Casing

Cement Height: 1,950'

Lead Slurry:  $1,450' \times .3132 \text{ ft}^3/\text{ft} \times 2.0 = 908 \text{ ft}^3$   
Light cement with 1/4 pound per sack flocele and 2% CaCl<sub>2</sub>.

Weight: 12.7 ppg  
Yield: 1.84 ft<sup>3</sup>/sack  
Water Requirement: 9.9 gal/sack  
Sacks: 500 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<sub>2</sub>.

Weight: 15.6 ppg  
Yield: 1.18 ft<sup>3</sup>/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: 4,560'

Lead Slurry:  $3,960' \times .2526 \text{ ft}^3/\text{ft} \times 1.25 = 1,250 \text{ ft}^3$   
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<sup>3</sup>/sack  
Water Requirement: 9.9 gal/sack  
Sacks: 680 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<sup>3</sup>/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'	1,950'	Spud	8.5-9.0	0	No Control
1,950'	3,405' Cutler	Gel/Water	8.5-9.0	0	No Control
3,405' Cutler	6,145' Upr. Ismay	Gel/Chemical	9.0-10.0	0	10.0-12.0 cc's
6,145' 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'	1,950'	250'	1°	1°
1,950'	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 1,950' 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: 28 days

DISTRICT APPROVALS

Approved                      Date

Ally R. Willock                      9/12/85

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DIVISION APPROVALS

Approved                      Date

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

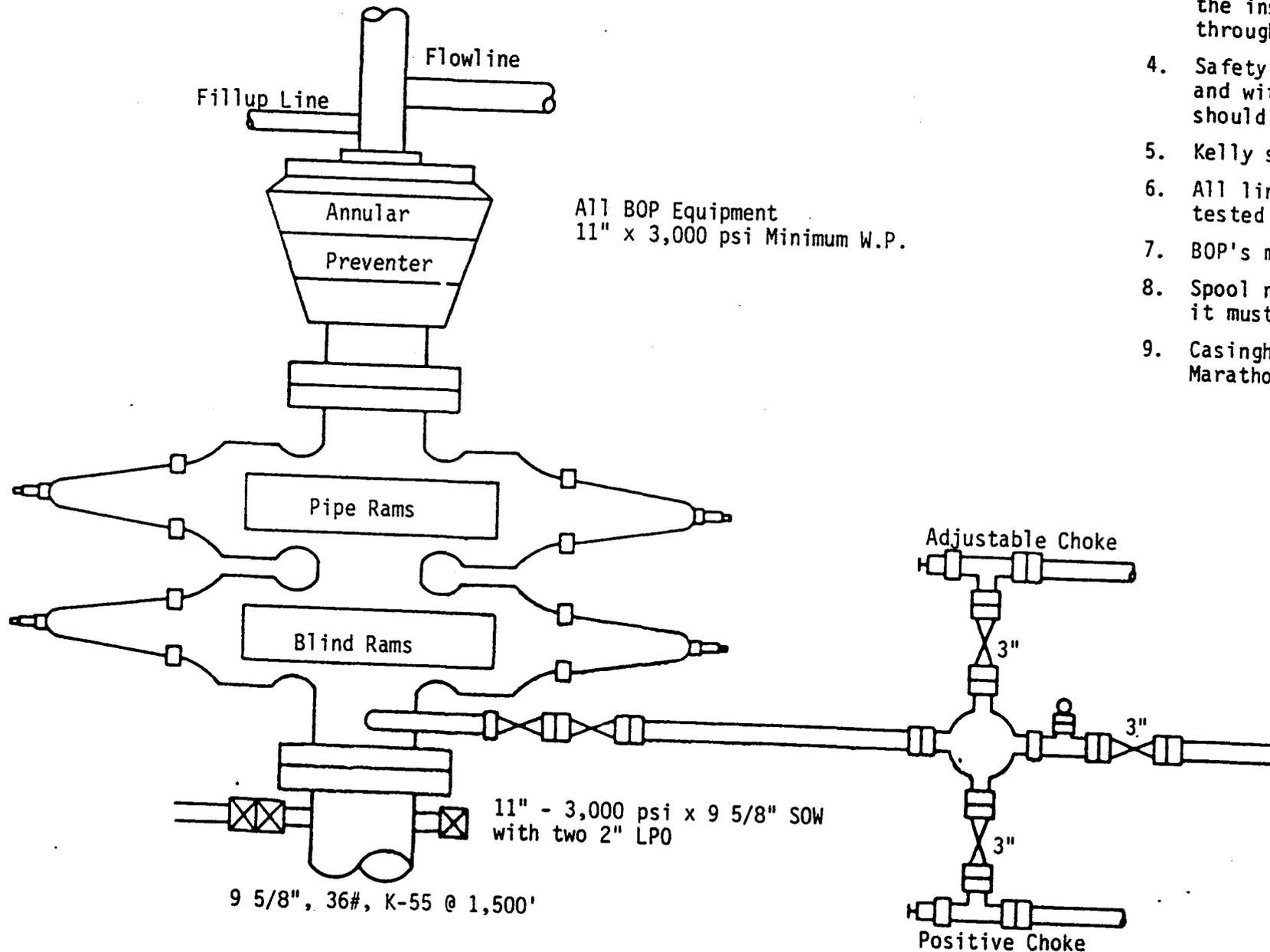
CASING DESIGN

Alkali Point #1-7

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,	8.756"	1,950'	1,950'	423	60.4	7.0	2,020	1,399	1,981	1.41	3,520	2,011	1.75
<u>PRODUCTION</u>													
5 1/2", 15.5#, K-55, ST&C	4.825"	5,800'	5,800'	222	85.4	2.6	4,040	3,670	4,040	1.10	4,810	2,454	1.96
5 1/2", 17.0#, K-55, ST&C	4.767"	6,510'	710'	252	8.6	29.3	4,910	4,240	4,910	1.15	5,320	2,509	2.12

Alkali Point #1-7  
 Section 7, T37S, R24E  
 San Juan County, Utah



All BOP Equipment  
 11" x 3,000 psi Minimum W.P.

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.
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.



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."

8. Anticipated Starting Dates and Notifications of Operations

The operator will contact the San Juan Resource Area at 801-587-2201, 48 hours before beginning any dirt work.

No location will be constructed or moved, no well will be plugged, and no drilling or workover equipment will be removed from a well to be placed in a suspended status without prior approval of the District Manager. If operations are to be suspended, prior approval of the District Manager will be obtained and notification given before resumption of operations.

The spud date will be reported orally to the San Juan Area Manager, a minimum of 24 hours before spudding. A Sundry Notice (Form 3160-5) will be sent w/in 24 hours after spudding, reporting the spud date and time. The Sundry will be sent to the District Manager. If the spudding is on a weekend or holiday, the Sundry will be submitted on the following regular work day.

In accordance with Onshore Oil and Gas Order No. 1, this well will be reported on Form 9-329 "Monthly Report of Operations," starting with the month in which operations begin and continue each month until the well is physically plugged and abandoned. This report will be sent to the BLM District Office, P.O. Box 970, Moab, Utah 84532.

Immediate Report: Spills, blowouts, fires, leaks, accidents, or any other unusual occurrences shall be promptly reported to the Resource Area in accordance with requirements of NTL-3A.

If a replacement rig is planned for completion operations, a Sundry Notice (Form 3160-5) to that effect will be filed, for prior approval of the District Manager. All conditions of this approved plan are applicable during all operations conducted with the replacement rig. In emergencies, verbal approval can be given by the District Petroleum Engineer.

If the well is successfully completed for production, then the District Manager will be notified when the well is placed in a producing status. Such notification will be sent by telegram or other written communication, not later than 5 business days following the date on which the well is placed on production.

No well abandonment operations will begin without the prior approval of the District Manager. In the case of newly drilled dry holes or failures, and in emergencies, oral approval will be obtained from the District Petroleum Engineer. A "Subsequent Report of Abandonment" (Form 3160-5), will be filed with the District Manager, within 30 days following completion of the well for abandonment. This report will indicate where plugs were placed and the current status of surface restoration.

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 and green. See copy of Surveyor's Plat of Proposed Access Road.

c. Plans for improvement and/or maintenance of existing roads: Existing roads will be maintained in as good or better shape than they now exist.

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: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Planned Access Roads:

- a. The maximum total disturbed width will be 30 feet.
- b. Maximum grade: Level
- c. Turnouts: None will be needed.
- d. Location (centerline): Has been flagged and staked
- e. Drainage: One culvert will be installed at the access Point adjoining County Road #204.
- f. Surface Materials: Native Material
- g. Other: Refer to Diagram "A" color coded green for access road location.

The access road will cross an existing pipeline. A ramp made from native material will be constructed and maintained at the pipeline crossing. Pure Oil Company, the pipeline owner, will be notified of our plans to cross their right-of-way.

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, 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 (~~will~~/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 the location. It will be emptied and the trash will be hauled to an approved disposal facility 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 (NTL-2B).

8. Ancillary Facilities:

Camp facilities (~~will~~/will not) be required. They will be located: \_\_\_\_\_

9. Well Site Layout:

The reserve pit will be located: Northeast

The top 12 inches of soil material will be removed from the location and stockpiled separate from the trees on the 1) Northwest side. Topsoil along the access will be reserved in place. 2) Southeast

Access to the well pad will be from: North

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.

_____	1bs/acre Indian ricegrass ( <u>Oryzopsis hymenoides</u> )
_____	1bs/acre <u>Galleta</u> ( <u>Hilaria jamesii</u> )
<u>12</u>	1bs/acre crested wheatgrass ( <u>Acropyron desertorum</u> )
_____	1bs/acre Western wheatgrass ( <u>Agropyron smithii</u> )
_____	1bs/acre Alkali sacaton ( <u>Scorobolus airoides</u> )
_____	1bs/acre Sand dropseed ( <u>Scorobolus cryptandrus</u> )
_____	1bs/acre Fourwing saltbush ( <u>Atriplex canescens</u> )
_____	1bs/acre Shadscale ( <u>Atriplex confertifolia</u> )
_____	1bs/acre Green ephedra ( <u>Ephedra viridis</u> )
_____	1bs/acre Cliffrose ( <u>Cowania mexicana</u> )
_____	1bs/acre Desert bitterbrush ( <u>Purshnia glandulosa</u> )
_____	1bs/acre Winterfat ( <u>Eurotia lanata</u> )
_____	1bs/acre Globemallow ( <u>Sphaeralcea ambigua</u> )
_____	1bs/acre Wild sunflower ( <u>Helianthus annuus</u> )
_____	1bs/acre

- 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: Pure Oil Company will be notified of our intentions to cross their pipeline right-of-way with the access road. Please note that their right-of-way crosses our lease U-39243.

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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 23, 1985 Doyled [Signature] District  
Date Name and Title Production Manager

ON-SITE

DATE: August 14, 1985

PARTICIPANTS:

Rich McClure

Patrick Harden

Howard Hughes

Jim Perkins, Lou Jobe

Jim VanGilder, Ray Rosenthal, Frank Krugh

REPRESENTING:

Bureau of Land Management

Laplata Archeological Consultants

Dirt Contractor

Clark Reed and Associates Surveyors

Marathon Oil Company

AN ARCHEOLOGICAL SURVEY OF  
MARATHON OIL COMPANY'S  
ALKALI POINT #1-7 WELL PAD AND ACCESS ROAD,  
SAN JUAN COUNTY, UTAH

LAC REPORT 8575b

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 Alkali Point #1-7 well pad and access road was conducted by personnel of La Plata Archeological Consultants, Inc. on August 14, 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. 900' of access road were archeologically surveyed. The presence of a prehistoric site necessitated the relocation of the well pad ca. 200' to the west from the originally desired location. The site is now approximately 80' from the edge of the well pad and should not be disturbed during construction activities. Provided that the site is strictly avoided during project construction and well operation archeological clearance for the project is recommended.

## INTRODUCTION

On August 14, 1985 an archeological survey of Marathon Oil Company's Alkali Point #1-7 well pad and approximately 900' 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 conducted 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 ca. 900' in length. The access road will join the improved Alkali Ridge road to the east of the pad. The well is located in the SE $\frac{1}{4}$ , SW $\frac{1}{4}$  of section 7, T37S, R24E in San Juan County, Utah on lands administered by the Bureau of Land Management - San Juan Resource Area. The area is included on the Blanding, Utah 15' series topographic map (1957).

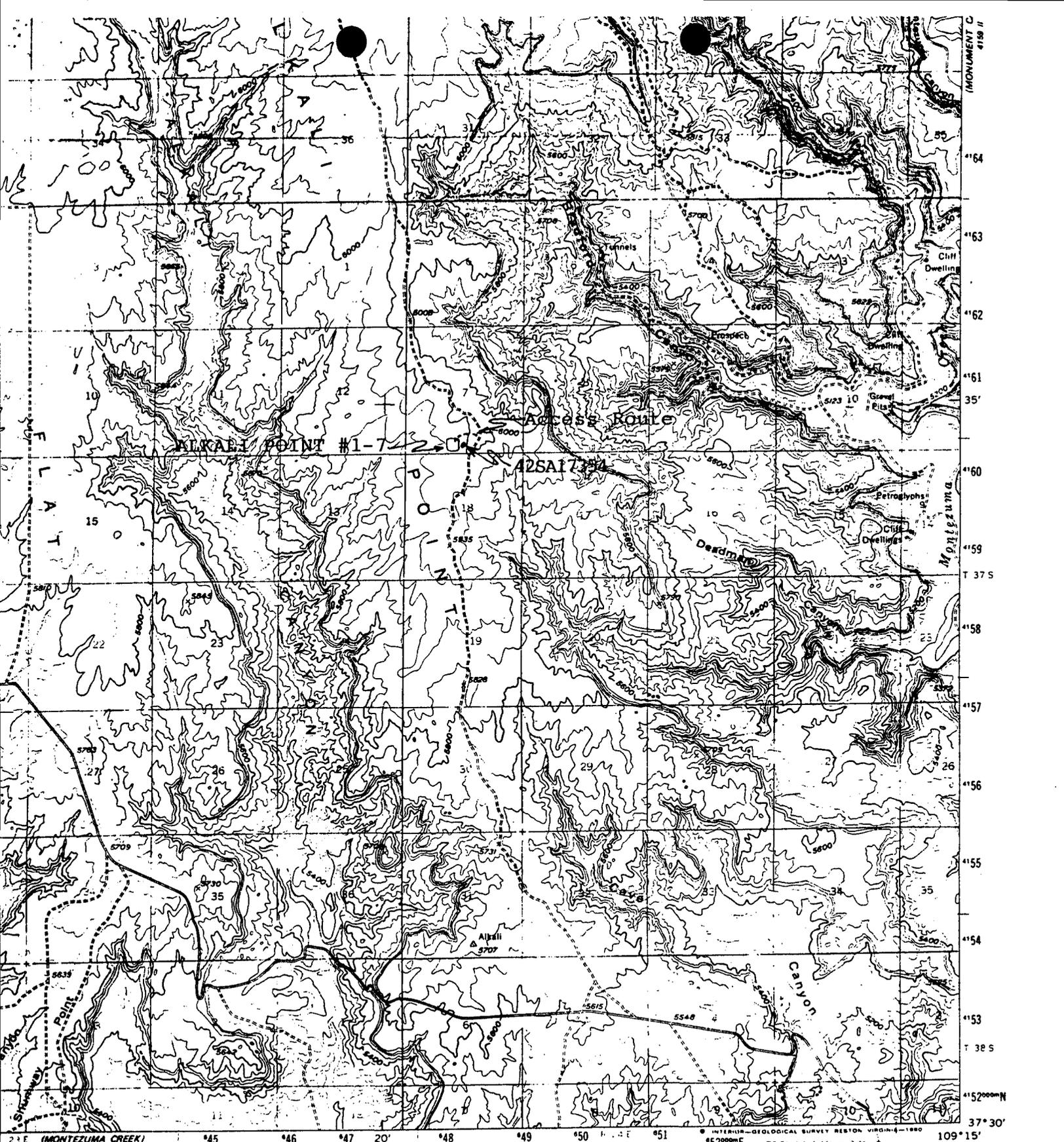
#### PHYSIOGRAPHY AND ENVIRONMENT

The project area is located on Alkali Ridge (Point) in extreme southeastern Utah. Alkali Ridge is a southwesterly dipping cuesta bordered on the west by Alkali Canyon and on the east by Montezuma Canyon. Terrain in the project vicinity is gently undulating, with topographic relief provided by low broad ridges and shallow swales. The well pad is situated on a gentle southwesterly facing ridge slope.

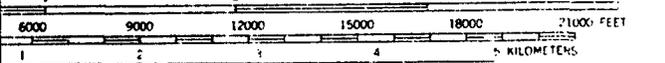
Sediments consist of aeolian very fine sandy loam.

Vegetation is a pinyon-juniper plant community, although the area has been chained and now supports more brush than formerly.

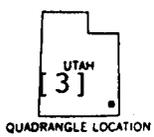
There are no sources of permanent water in the vicinity, but several unnamed and uncharted springs are to be found in the canyons bordering Alkali Ridge.



SCALE 1:62500



CONTOUR INTERVAL 40 FEET  
 NATIONAL GEODETIC VERTICAL DATUM OF 1929



ROAD CLASSIFICATION

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

BLANDING, UTAH  
 N3730—W10915/15

1957  
 DMA 4159 III—SERIES V797

CONFORMS WITH NATIONAL MAP ACCURACY STANDARDS  
 SURVEY, DENVER, COLORADO 80225, OR RESTON, VIRGINIA 22092  
 TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

## 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 numerous archeological sites had been recorded in the general area, with sites 42SA7308 and 14738 located near the well pad and access road. Neither of these two sites were found in the field, however, and both are plotted well outside of the project area per se. Also, the reviews indicated that numerous archeological surveys have been conducted, most in conjunction with seismograph projects and not covering the well project area specifically.

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. Due to the presence of archeological site 42SA17354 (recorded for the project) the original well location had to be moved ca. 200' to the west in order to avoid the cultural resource. The area surveyed is bounded on the east by a pipeline corridor, and extends 330' to the west of the current well center stake. The well pad was staked during the pre-drill inspection.

A single sinuous transect was walked along the access route, effectively inventoring a 100' wide area. The access route was flagged by the archeologist and the construction contractor during the survey.

## SURVEY RESULTS

One archeological site was found during the survey which required the relocation of the well in order to avoid it. The site is now approximately 80 feet east of the proposed well pad and should not be adversely affected by the project. Blue flagging was placed between the site and the proposed pad and all vehicles and equipment is strictly prohibited past the flagging in the site area. A brief description of the site is presented below, more detailed information is contained in the site form submitted to the Division of State History and appropriate offices of the BLM.

42SA17354

This site consists of a partially disturbed (chained) two to four room structure, with partial wall outlines of three rooms discernable. Rubble is scattered in a 3 X 3m area. The structure was probably a field house. A relatively large scatter of sherds, flakes, and a sparse amount of burned rock is located about 25m southeast of the structure. Although these materials appear to be a midden artifacts are rather diffuse. A seismograph trail passes between the structure and the midden, but does not appear to have disturbed either loci to any significant degree. Ceramics indicate a Pueblo II-Pueblo III affiliation.

## CONCLUSION

The archeological survey of the Alkali Point #1-7 well pad and ca. 900' of access road was conducted by personnel of La Plata Archeological Consultants, Inc. on August 14, 1985. The project is a development planned by Marathon Oil Company on

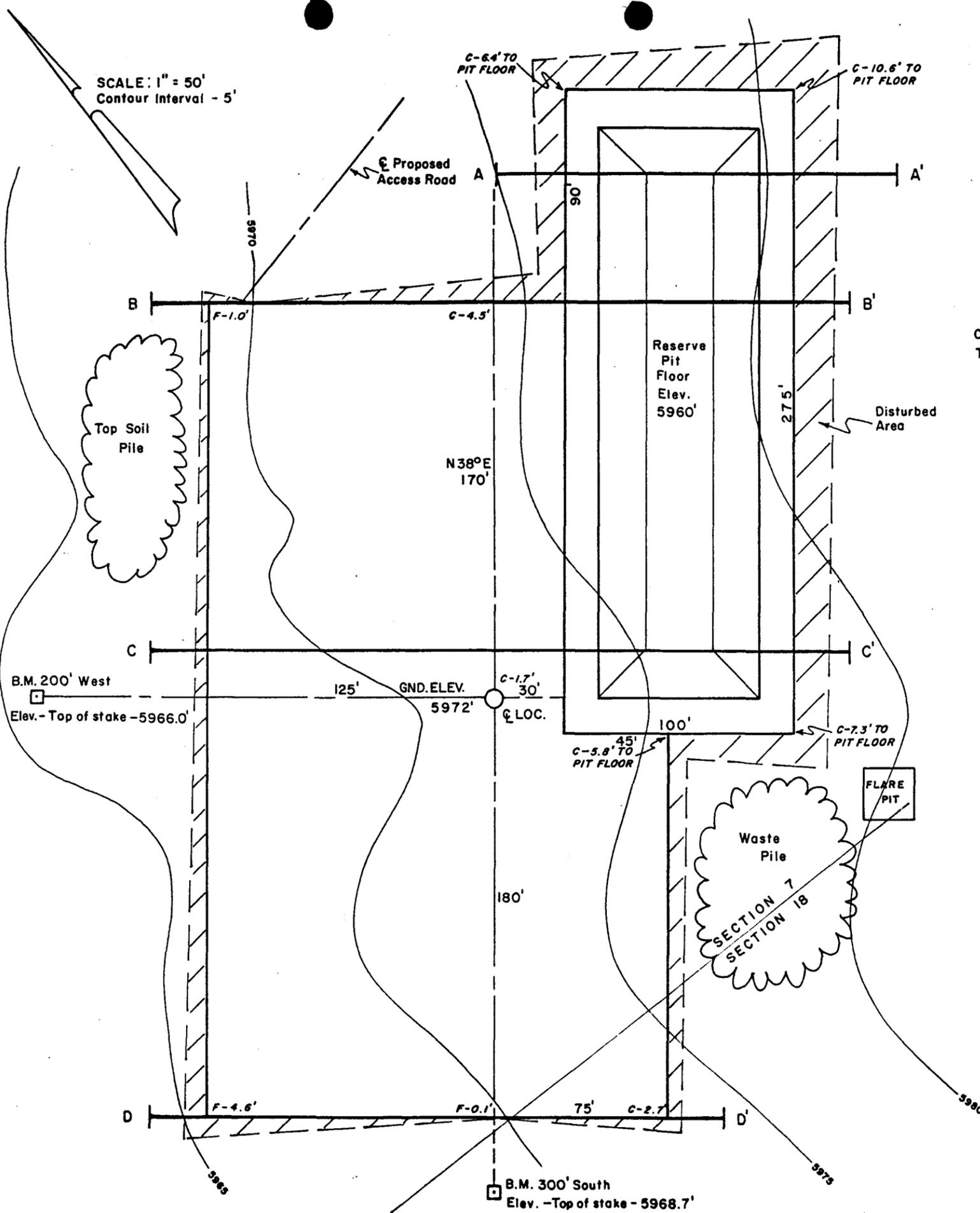
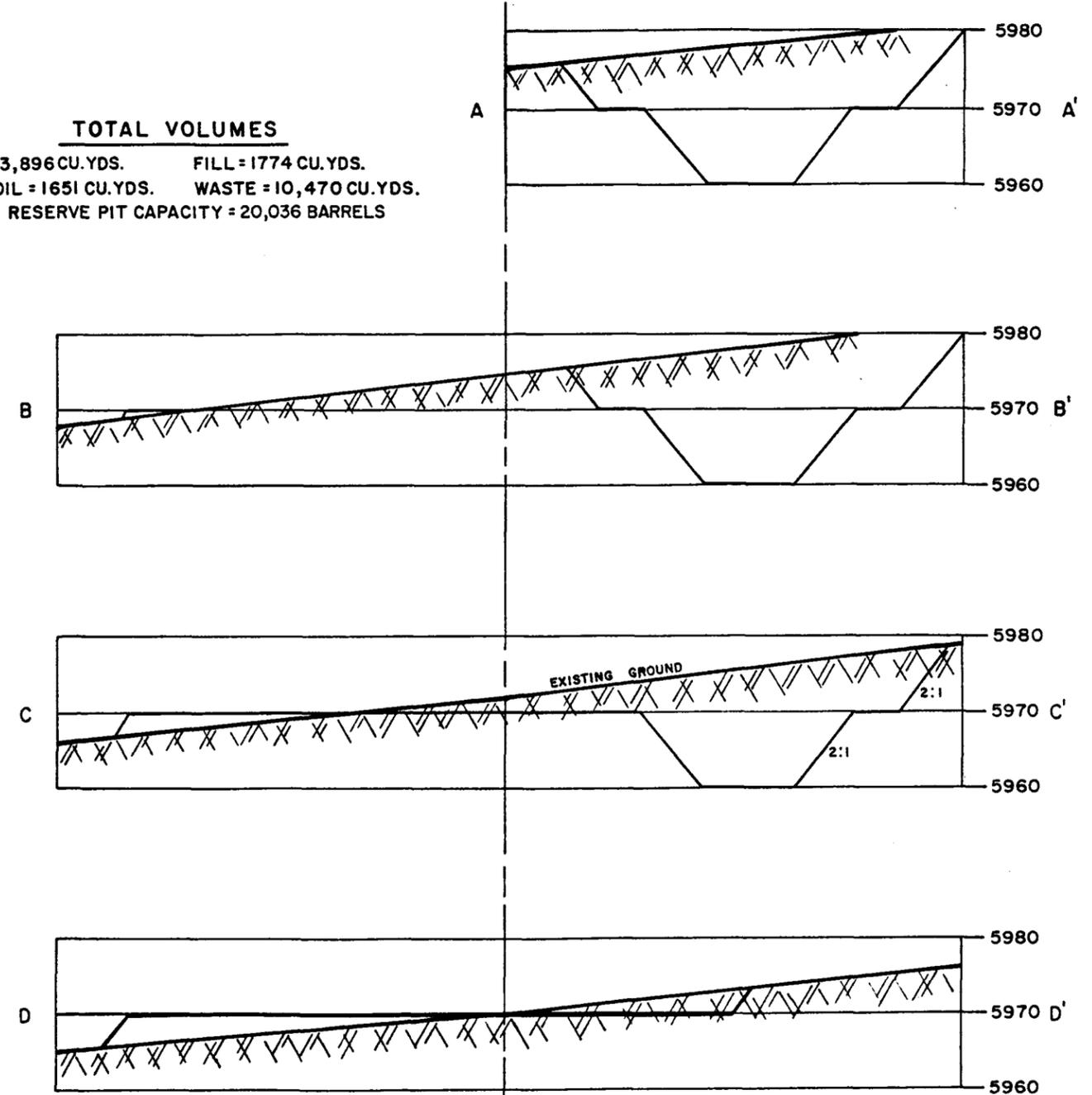
BLM lands in San Juan County, Utah. An area 660 X 660' surrounding the pad center stake and a 100' wide corridor along the access route were archeologically surveyed. One prehistoric site was found, requiring the relocation of the well pad ca. 200' to the west in order to avoid the resource. The site is now ca. 80' from the pad and should not be disturbed by construction activities. Blue flagging indicates the site boundary and where all equipment is prohibited. If the site becomes subjected to vandalism or other disturbances as a result of the well's presence then it is recommended that the site be fully excavated. Given this stipulation archeological clearance for the project is recommended.

**MARATHON OIL CO. - ALKALI POINT # 1-7**  
**SE/4, SW/4, SEC. 7, T.37 S., R.24 E., S.L.M., SAN JUAN COUNTY, UTAH**

**CROSS SECTIONS**

HORIZONTAL SCALE: 1" = 50'  
 VERTICAL SCALE: 1" = 20'  
 DESIGN ELEVATION - 5970

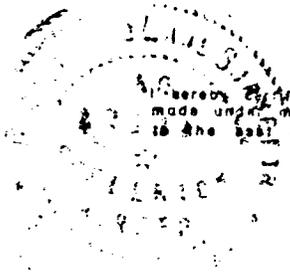
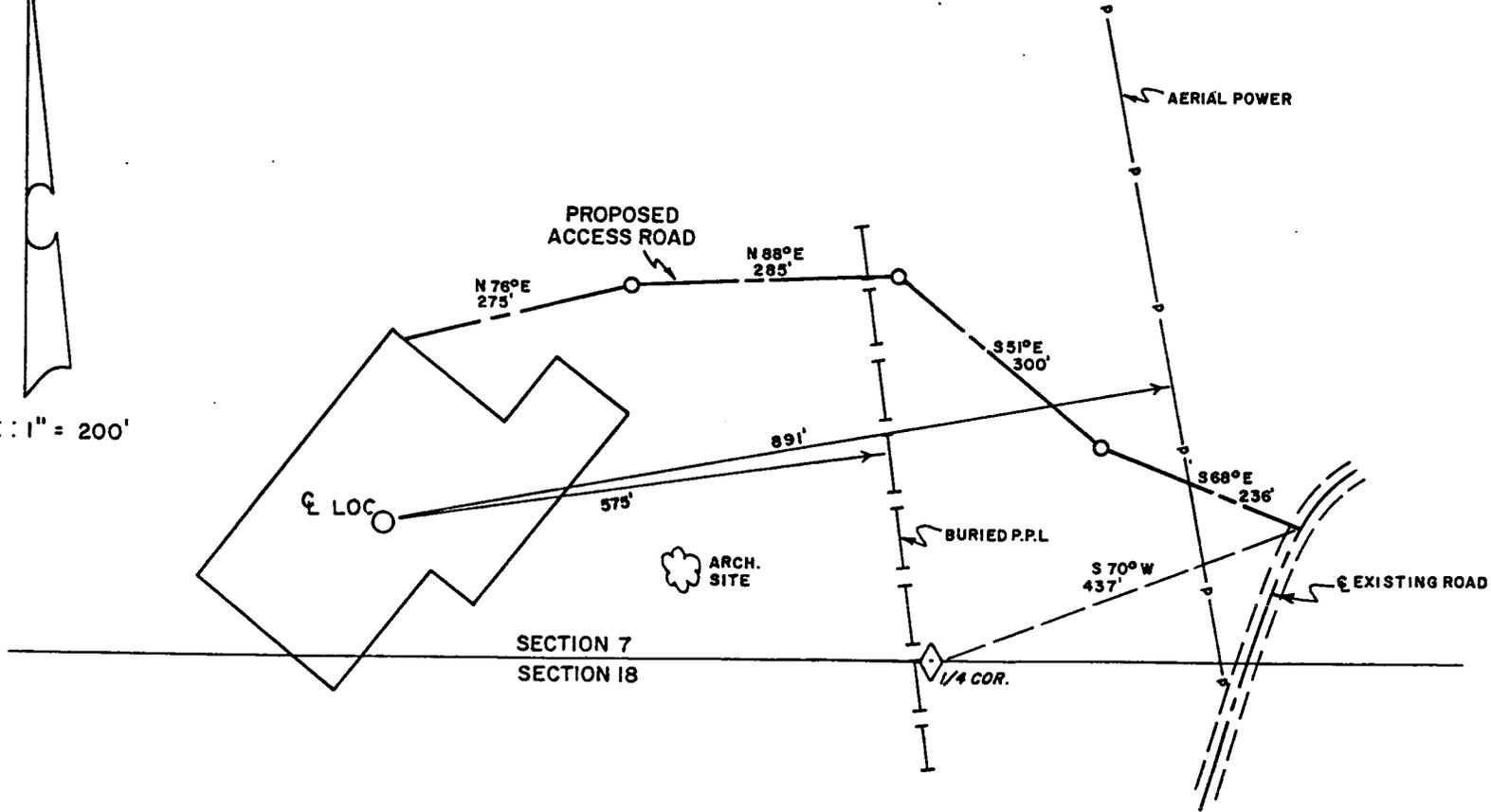
**TOTAL VOLUMES**  
 CUT = 13,896 CU.YDS.    FILL = 1774 CU.YDS.  
 TOP SOIL = 1651 CU.YDS.    WASTE = 10,470 CU.YDS.  
 RESERVE PIT CAPACITY = 20,036 BARRELS



MARATHON OIL COMPANY Casper, Wyoming	
WELL SITE PLAN Alkali Point # 1-7 Sec. 7, T. 37 S., R.24 E. San Juan County, Utah	
CLARK-REED & ASSOC., INC. Durango, Colorado	DATE: Aug. 14, 1985 FILE NO.: 85031



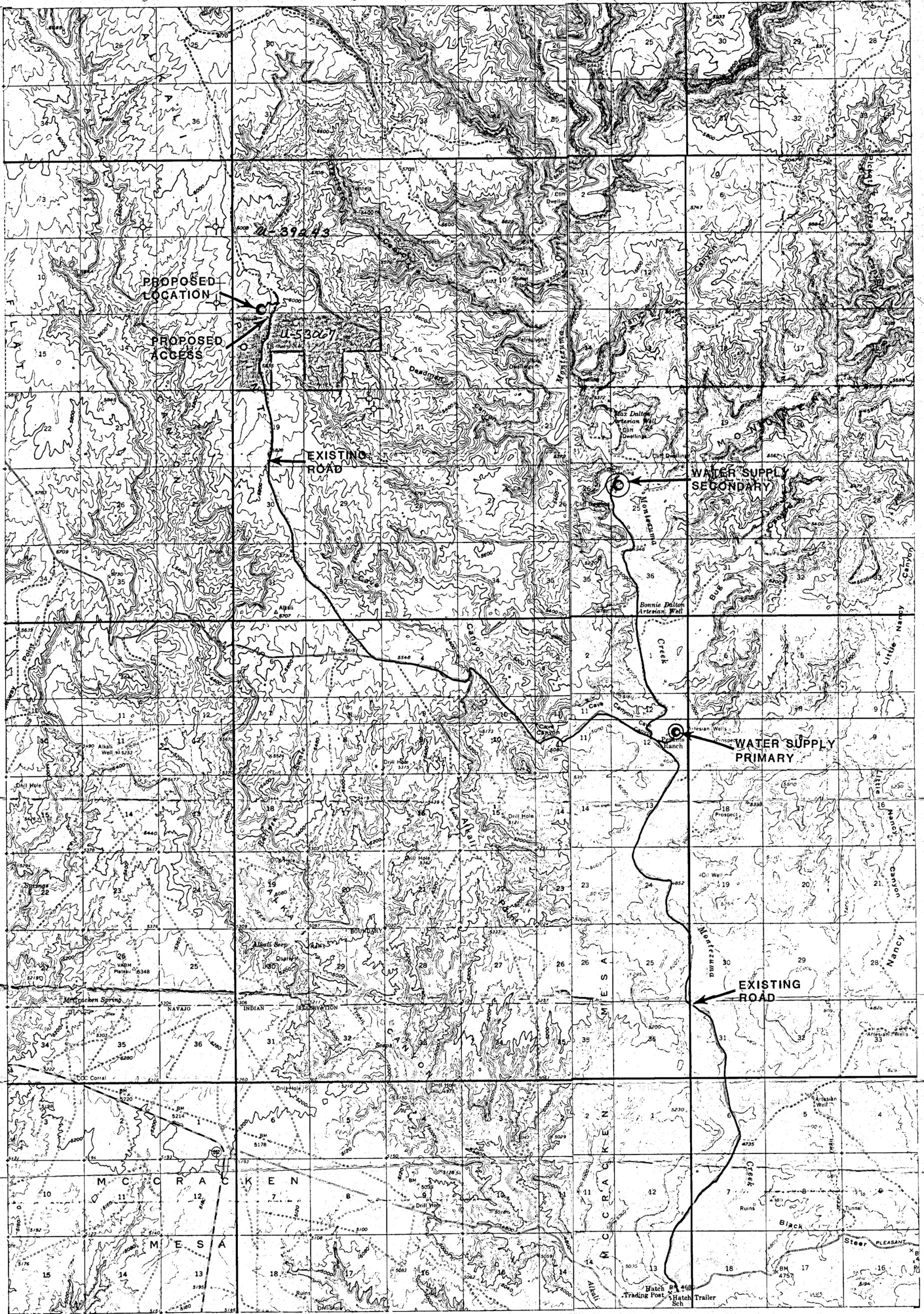
SCALE: 1" = 200'



I 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	
PROPOSED ACCESS ROAD ALKALI POINT # 1-7 Sec. 7, 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  
 ALKALI POINT  
 WELL # 1-7  
 SEC. 7, T37S, R24E  
 SAN JUAN CO., UTAH

OPERATOR Marathon Oil Co. DATE 9-25-85

WELL NAME Alkali Point 1-7

SEC SE SW 7 T 37S R 24E COUNTY San Juan

43-037-31197  
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 &

Exception requested -

APPROVAL LETTER:

SPACING:  A-3 \_\_\_\_\_ UNIT  C-3-a \_\_\_\_\_ CAUSE NO. & DATE

C-3-b \_\_\_\_\_  C-3-c \_\_\_\_\_

STIPULATIONS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_



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

September 18, 1985

"Registered Mail Return Receipt Requested"

RECEIVED

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

SEP 23 1985

DIVISION OF OIL  
GAS & MINING

Re: Exception to the location for the proposed well Alkali Point #1-7  
located SE SW 148' FSL, 1704' FWL, Section 7, T37S, R25E, 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 Alkali Point #1-7 be approved by the State of  
Utah, Division of Oil, Gas and Mining.

Through Marathon's interpretation of the area's geology it was determined  
that this location was the most favorable for a wildcat well. 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 enclosed please find three completed  
"Applications for Permit to Drill" and the Archeological Clearance  
Report.

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  
Enclosures

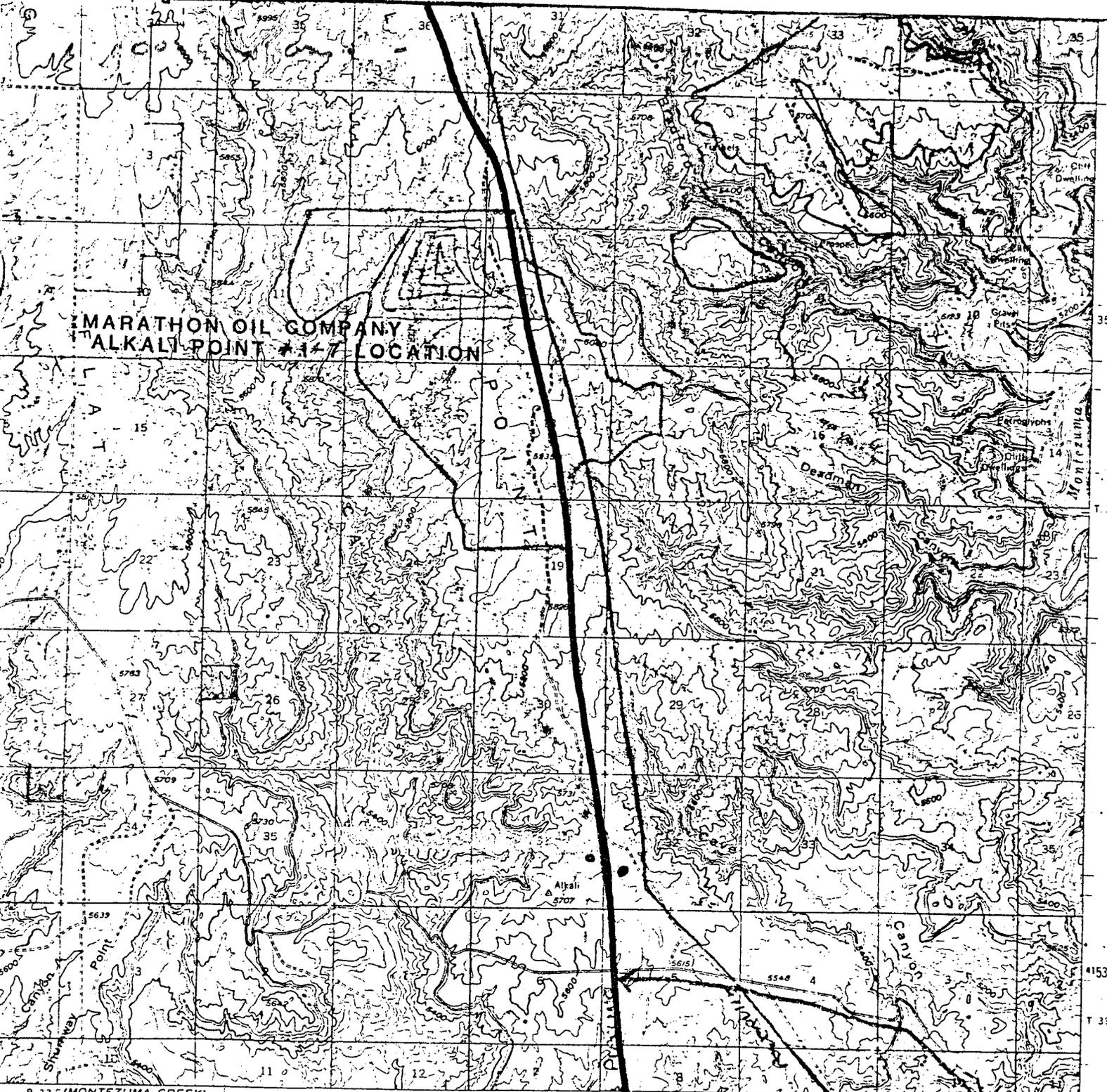
Lower line 011

MARATHON OIL COMPANY  
ALKALI POINT #1-7 LOCATION

Pure Oil 10" Pipeline

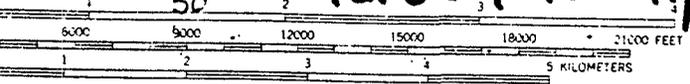
12/28/77

Wesco-Get  
6" Dillin



R. 23 E (MONTEZUMA CREEK)

SCALE 1:62,500



CONTOUR INTERVAL 40 FEET  
DATUM IS MEAN SEA LEVEL

R. 24 E INTERIOR-GEOLOGICAL SURVEY, WASHINGTON D. C. - 1964-NS 109° 15'

PERKINS RANCH 2MI ROAD CLASSIFICATION

- Heavy-duty —————
- Medium-duty - - - - -
- Light-duty 6" Dillin
- Unimproved dirt .....
- State Route ○



QUADRANGLE LOCATION

BLANDING, UTAH  
N3730-W10915/15

\*MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
LOGICAL SURVEY, DENVER 25, COLORADO OR WASHINGTON 25, D. C.  
OBTAINING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST



STATE OF UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

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

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

September 26, 1985

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

Gentlemen:

Re: Well No. Alkali Point 1-7 - SE SW Sec. 7, T. 37S, R. 24E  
148' FSL, 1704' FWL - 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 43-037-31197.

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**

SUBMIT IN TRIPPLICATE\*  
(Other instructions on  
reverse side)

Form approved.  
Budget Bureau No. 1004-0136  
Expires August 31, 1985

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

**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: SE/4 SW/4 148' FSL & 1704' FWL  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 Approximately 18 miles Northwest of Hatch Trading Post

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)      148'

16. NO. OF ACRES IN LEASE      2478  
 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      6510'

20. ROTARY OR CABLE TOOLS      Rotary  
 21. ELEVATIONS (Show whether DF, RT, GR, etc.)      5972' Ungraded GL  
 22. APPROX. DATE WORK WILL START\*      3rd Quarter 1985

**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

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/ C. Delano Backus TITLE Acting DISTRICT MANAGER DATE 03 OCT 1985  
 CONDITIONS OF APPROVAL, IF ANY:

**NOTICE OF APPROVAL**

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

\*See Instructions On Reverse Side

*State of Utah - DOGM*

090920

September 8, 1986

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

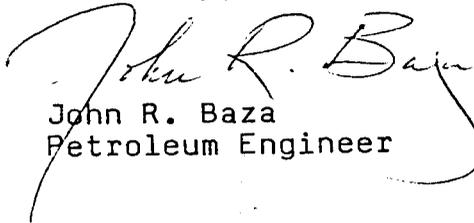
Gentlemen:

RE: Well No. Alkali Point #1-7, Sec.7, T.37S, R.24E,  
San Juan County, Utah, API NO. 43-037-31197

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  
Petroleum Engineer

sb  
cc: BLM-Moab  
D. R. Nielson  
R. J. Firth  
 Well file  
0278T-109

**RECEIVED**  
SEP 24 1986

DIVISION OF  
OIL, GAS & MINING

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

092911

LA

3162 (U-065)  
(U-39243)

SEP 23 1986

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

Re: Application for Permit to Drill  
Well No. Alkali Point 1-7  
Sec. 7, T. 37 S., R. 24 E.  
San Juan County, Utah  
Lease U-39243

Gentlemen:

The Application for Permit to Drill the above well was approved October 3, 1985. 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