

UTAH OIL AND GAS CONSERVATION COMMISSION

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

**\*Location Abandoned - Well never drilled - 3-18-83**

DATE FILED 3-30-81

LAND: FEE & PATENTED FED. STATE LEASE NO.

PUBLIC LEASE NO. U-22776

INDIAN

DRILLING APPROVED: ~~5-21-81~~ 6-4-81

SPUDDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION:

DATE ABANDONED: LA 3-18-83

FIELD: Wildcat 3/86

UNIT:

COUNTY: Utah

WELL NO. Horse Ridge 1-10

API NO. 43-049-30011

LOCATION 1574' FT. FROM (N)  LINE. 202'

FT. FROM  (W) LINE. NW SW NW 1/4 - 1/4 SEC. 10

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
				<u>7S</u>	<u>9W</u>	<u>10</u>	<u>MARATHON OIL COMPANY</u>

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 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  
 1,574' FNL & 202 FWL, NW/4 SW/4 NW/4  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 30 Miles Northwest of Price, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 202'

16. NO. OF ACRES IN LEASE 2135.29

17. NO. OF ACRES ASSIGNED TO THIS WELL 40

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

19. PROPOSED DEPTH 2,275'

20. ROTARY OR CABLE TOOLS Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.) 9,466' GL

22. APPROX. DATE WORK WILL START\* 2nd Quarter, 1981

5. LEASE DESIGNATION AND SERIAL NO.  
 U 22776

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Horse Ridge

9. WELL NO.  
 1-10

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 10, T7S, R9W  
 Uinta Special Meridian

12. COUNTY OR PARISH 13. STATE  
 Utah Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Item #4 of 10 Point Program for complete Casing and Cementing Program				

Please see the following attachments:

1. Surveyor's Plat
2. Ten-Point Drilling Program
3. BOP Schematic
4. Thirteen-Point Surface Plan
5. Maps and Diagrams

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 Dale Caddy TITLE District Operations Manager DATE March 25, 1981  
 (This space for Federal or State office use)

PERMIT NO. \_\_\_\_\_ APPROVAL DATE \_\_\_\_\_  
 APPROVED BY W T Martin FOR E. W. GYNN DISTRICT ENGINEER DATE SEP 15 1981  
 CONDITIONS OF APPROVAL, IF ANY: \_\_\_\_\_

CONDITIONS OF APPROVAL ATTACHED TO OPERATOR'S COPY

\*See Instructions On Reverse Side

NOTICE OF APPROVAL  
 State 046

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

United States Department of the Interior  
 Geological Survey  
 2000 Administration Bldg.  
 1745 West 1700 South  
 Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Marathon Oil Company  
 Project Type Oil and Gas Well  
 Project Location 1574' FNL 202' FWL Section 10, T. 7S, R. 9W  
 Well No. 1-10 Lease No. U-22776  
 Date Project Submitted March 30, 1981

FIELD INSPECTION

Date June 2, 1981

Field Inspection  
 Participants

Greg Darlington USGS, Vernal  
Pat Spahr and Don Petersen USFS, Duchesne  
Merlin Walker USFS, Vernal  
Mike Krugh, Walt West and Earl Brown Marathon Oil  
Jim Hacking D.E. Casada

Related Environmental Documents: (See attachments and related correspondence)

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

July 2  
~~June 11~~, 1981  
 Date Prepared

Gregory Darlington  
 Environmental Scientist

I concur  
JUL 06 1981  
 Date

W. T. Masten  
 District Supervisor

FOR  
 E. W. GUYNN  
 DISTRICT ENGINEER

Typing In 6-11-81 Typing Out 6-11-81

PROPOSED ACTION:

Marathon Oil Company plans to drill the Horse Ridge Unit #1-10, a 2275' oil and gas test of various formations. About 700' of jeep trail will be upgraded from the location to the Horse Ridge Road. The Horse Ridge road will be widened and improved to upgrade it for use as an access road. A pad 200' by 300' and a reserve pit 100' by 150' are requested for the location. The northeast corner of the reserve pit will be adequately keyseated to compensate for the steepness of the nearby slope and a nearby minor drainage.

RECOMMENDED APPROVAL CONDITIONS:

The operator agrees to accept and adhere to the following conditions in addition to the plans outlined in the APD:

1. <sup>FS</sup> ~~APD~~ Stipulations
2. Lease Stipulations
3. Provide adequate logs for the identification of other minerals as requested in the Mineral Evaluation Report and Mining Report.
4. Obtain Right of Way from BLM for <sup>about</sup> 1 mile of Forest Road although this road is maintained by the Forest Service.
5. Restrict Drilling Activities to July 1 - October 1 per the request of the State of Utah Division of Wildlife.
6. Sundry filed regarding small camp facilities for D.E. Casada during construction.

FIELD NOTES SHEET

Date of Field Inspection: June 2, 1981

Well No.: 1-10

Lease No.: U-22776

Approve Location:

Approve Access Road:

Modify Location or Access Road: Plans adequate

Amend 13 point plan to allow access a 4-man camp trailer in the area during the construction phases of the projects. Repeal the reserve pit.

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. Violate Federal, State, Local, or Tribal Laws

If this project is not eligible for Categorical Exclusion circle the numbers of the above criteria requiring the preparation of an EA.

Comments and special conditions of approval discussed at onsite: (include local topography) Being drilled as 2<sup>nd</sup> Unit obligation well to avoid the 500 foot stipulation State of Utah requires for non-mineralized areas. Movement into more open areas to the North would put reserve pits in a drainage and possible fault zones. Present location looks pretty good. Widen Horse Ridge Road to 16' minimum driving surface. Upgrade drainage off roadways to improve durability of the road surface.

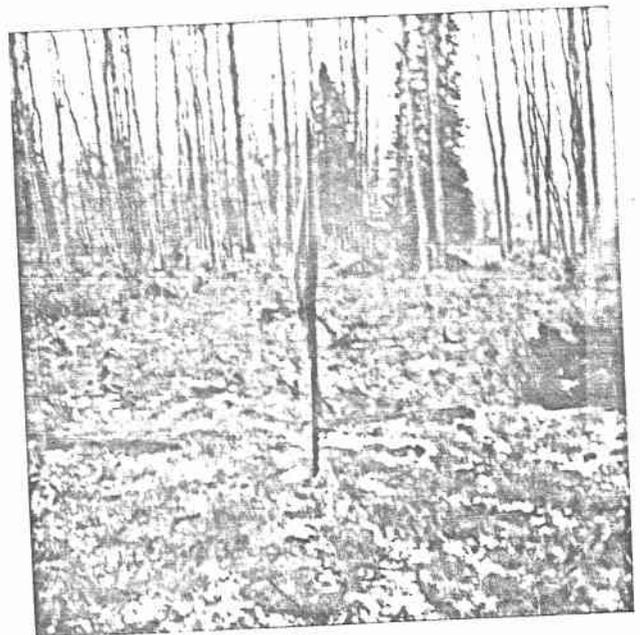


CATEGORICAL EXCLUSION REVIEW COMMON REFERENCE LEGEND

1. Surface Management Agency Input
2. Reviews Reports, or information received from Geological Survey (Conservation Division, Geological Division, Water Resource Division, Topographic Division)
3. Lease Stipulations/Terms
4. Application Permit to Drill
5. Operator Correspondence
6. Field Observation
7. Private Rehabilitation Agreement
8. USGS conditions of approval.



North View  
Marathon 1-10



East View  
Marathon 1-10

Supplement to  
Identification CER/EA No. 384-81, 385-81  
386-81

United States Department of the Interior  
Geological Survey  
2000 Administration Bldg.  
1745 West 1700 South  
Salt Lake City, Utah 84104

NEPA CATEGORICAL EXCLUSION REVIEW

PROJECT IDENTIFICATION

Operator Marathon Oil Company  
Project Type Drilling Program in Ashley National Forest  
Project Location In T. 6S. and T. 7S., R. 9W (USM)  
Well No. listed on each CER Lease No. listed on each CER  
Date Project Submitted March 30, 1981

FIELD INSPECTION Date June 2, 1981

Field Inspection  
Participants Greg Darlington USGS, Vernal  
Pat Spahr and Don Petersen F.S., Duchesne  
Merlin Walker F.S., Vernal  
Mike Krugh, Earl Brown and Walt West Marathon Oil  
Jim Hacking D.E. Casada

Related Environmental Documents: CER's 384-81, 358-81, and 386-81

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

June 9, 1981  
Date Prepared

Gregory Darlington  
Environmental Scientist

I concur

JUL 06 1981  
Date

W. M. Martin  
District Supervisor

FOR E. W. GUYNN  
DISTRICT ENGINEER

Typing In 6-9-81 Typing Out 6-10-81

PROPOSED PROJECT:

Marathon Oil Company plans to drill the three applied for wells and possibly two more during the time from July 1 - October 1, 1981. Well 1-35 in Section 35, T. 6S, R. 9W. Well 1-10 in Section 19, T. 7S, R. 9W. Well 1-3 in Section 3, T. 7S, R. 9W. All on Horse Ridge in the Ashley National Forest. Wells 1-4 in Section 4, T. 7S, R. 9W also on Horse Ridge and Well 1-1 in Section 1, T. 7S, R. 9W on nearby Fossil Ridge have also been staked but no APD's were filed for these two yet as of June 2 when we had the Field Inspection of the first three wells in Marathon's Drilling program.

The proposed wells will be drilled with air. If excessive water production is encountered while air-drilling, then it may be necessary to changeover to an aerated water system. However, pits will be maintained at all times with sufficient fluid level to fill the wellbore if a rapid changeover is necessary. Approximately ten days will be required for each well. Depths for the first three wells (T.D.) would vary from 2200 - 2500 feet. About 500 feet of surface casing will be used for each well. A water well is planned for ~~the~~ <sup>the</sup> 1-35 location where Marathon anticipates the existence of a suitable water source at about 380 feet depth. If the water well is suitable it will also be used for the other two locations.

All three of the locations we looked at on June 2, 1981, will be built along existing trails which will be upgraded and widened to about a 16 foot driving surface. No new access roads will be required for any of these three. No other wells or production facilities are now located within two miles of any of these wells.

Marathon's Drilling Project is admittedly weak on the following criteria for Categorical Exclusion:

1. Unique Characteristics: Test wells are in important deer fawning and elk calving habitat. The State of Utah Division of Wildlife Resources recommends drilling activities be restricted to the time period from July 1 to October 1. This together with the fact that careful efforts were made to choose easy to build locations should satisfy the unique characteristics criteria.
2. Establishes Precedents: Like any Wildcat drilling operation, these wells represent an intrusion into a new area previously used mainly for logging operations and wildlife habitat.
3. Cumulatively Significant: This is difficult to assess until the extent of commercial hydrocarbons encountered is known. The area is likely to develop according to what is encountered in these tests.

In the opinion of the Environmental Scientist present at the onsites for these wells, all of the nine Criteria for Categorical Exclusion are met. They are as follows:

Evaluation of Criteria for Categorical Exclusion

1. Public Health and Safety
2. Unique Characteristics
3. Environmentally Controversial Items
4. Uncertain and Unknown Risks
5. Establishes Precedents
6. Cumulatively Significant
7. National Register Historic Places
8. Endangered/Threatened Species
9. <sup>Does not</sup> Violate Federal, State, Local, or Tribal Laws

The proposed starting date for the project would be upon approval but no sooner than July 1, 1981. About one month will be required for upgrading access roads

and constructing the three locations. D. E. Casada Construction proposes keeping up to four construction personnel in a camp trailer near these locations during that month. This was agreeable to the Forest Service and other parties present at the onsites.

All of these locations are in National Forest Land. The access routes consists of existing roads which are presently maintained by the U. S. Forest Service and open to public access. Cattleguards are now in place at existing fences which should be sufficiently heavy duty to handle the proposed size of rig needed for drilling these wells. In the Forest Service's reply to the staking requests dated October 10, 1981 (copy attached) the three locations looked at June 2 (1, 2, and 3 locations) are discussed and widening and realigning the road was recommend~~ed~~ for the Horse Ridge Road. In this reply, it was also stated that the 1-3 location (number two site) could possibly be accommodated despite provisions in the lease for no surface occupancy there.

Marathon Oil has conducted an extensive survey of the area and spent about \$18,000 for the staking of these five locations and to establish suitable reference points and verify the proposed locations with modern surveying means. We appreciate these diligent efforts to properly document the legal description of their locations. Wells 1-35 and 1-10 are unit obligation wells. The 1-3 well is not a unit obligation well.

Drilling methods and the depths involved indicate that environmental impacts may be significantly less than those associated with deeper wells. However, it may be both prudent and useful to list and comment on <sup>some of</sup> the general environmental considerations involved with respect to the proposed projects.

ENVIRONMENTAL CONSIDERATIONS OF THE PROPOSED ACTION:

Regional Setting/Topography: Marathon's drilling program for 1981 in the Ashley National Forest consists of up to five wells all of which are located about 30 miles northwest of Price, Utah at elevations ranging from about 8700 - 9500 feet above sea level. These wells are all wildcat wells since no other wells have ever been drilled within two miles of the proposed locations.

PARAMETER

A. Geology

1. The expected tops of geologic formations of interest are discussed in the 10-point Subsurface Plans of the related APD's. Stratigraphy is included in appropriate Mineral Evaluation Reports from the District Geologist M.E., Salt Lake City.

2. Hazards

a. Land Stability: The locations have been carefully chosen to minimize problems which might be encountered with steep slopes, drainages, and any other land stability problems that might bother drilling operations.

b. Subsidence: Although subsidence could occur anytime that fluids are extracted from the subsurface, none is expected; however, no definite conclusions can be made.

c. Seismicity: The area is categorized as a region of moderate seismic risk in the Geologic Atlas of the Rocky Mountain Region published by the Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: Normal pressures and temperatures gradients are anticipated. A maximum pressure of 1250 psi is anticipated at T.D. and a maximum temperature of 100° Fahrenheit is expected at T.D. according to the operators APD's.

B. Soils

1. Soil Character: Typical mountain soil types. The clays involved are likely to be quite suitable for reserve pit construction without requiring special linings or materials.

2. Erosion/Sedimentation: The locations have been carefully chosen to minimize erosion problems. Existing roads would be widened, upgraded and realigned where necessary to a driving surface of 16 feet width. In many cases this would improve the ability of these roads to handle runoff from storms and snowmelt.

C. Air Quality: Air quality is generally good. Very limited deterioration will be associated with these projects, chiefly associated with increasing dust levels and exhaust pollutants during drilling operations.

D. Noise Levels: Background noise levels would increase significantly during drilling and construction phases of the project. This may be a nuisance to wildlife and result in their temporary migration from the area.

E. Water Resources

1. Hydrological Character

a. Surface Waters: The area is subject to considerable snowfall in winter and roads will require snow removal equipment if they are to be kept open during winter. Nonperennial drainages flow to Avintaquin Creek then to the Strawberry River.

b. Ground Waters: The casing programs propose 500 feet of surface casing to protect fresh water zones. Fresh water may be encountered at from 0 - 2500 feet depths during drilling.

2. Water Quality

a. Surface Waters: Some erosion from seasonal runoff may increase the turbidity of existing streams. No perennial streams are located near to these locations.

b. Ground Waters: Are likely to be fresh according to the Mineral Evaluation Reports. Marathon plans a water well for a water source for these drilling operations at the 1-35 location.

F. Flora and Fauna

1. Endangered and Threatened Species Determination:

Based on the Forest Service comments received at the onsite, we determined that there would be no effect on endangered and threatened species and/or their critical habitat. If otherwise, it will be indicated in the Forest Service stipulations for the individual wells.

2. Flora: Plants in the area include pine trees, quaken aspen, sagebrush, oakbrush and various other vegetation typical of the elevation and soils in such mountainous areas.

3. Fauna: Deer, elk and various other wildlife roam the area. The Utah Division of Wildlife Resources is concerned that the area includes important deer fawning and elk calving habitat and should be restricted from drilling activity prior to July 1 because of this. Early winters could make access after October 1 difficult.

G. Land Uses

1. General: Existing roads are not frequently traveled. Present usage of the area does not seem to involve frequent access for other than loggers, cabin owners, and Forest Service personnel, except in hunting season.

*West of the Avintag via  
campground  
heavily*

2. Affected Floodplains and/or Wetlands: None

3. Roadless/Wilderness Area: The locations were chosen close to existing logging roads and will require upgrading of present jeep trails. No new roads were needed at the first 3 locations looked at on June 2, 1981. Present roads will, however, require significant upgrading.

H. Aesthetics: This is a beautiful area which seems to be rather infrequently used by the general public. Improved roads will result in increased accessibility and possibly increased usage. This could have some eventual impacts the extent of which it is difficult to presently assess.

I. Socioeconomics: The socioeconomic effects of these wells are likely to be minor. The present outlook is that they are exploratory tests. If an important new source of hydrocarbons is discovered <sup>e</sup> eventual development will bring significant numbers of new jobs into the area. It may be quite expensive to keep the roads to these wells open in winter conditions so development of this area is not likely to proceed at a very rapid pace unless important new discoveries are made.

J. Cultural Resources Determination:

Based on the Forest Service comments received from Pat Spahr on June 4, we determine that there would be no effect on cultural resources subject to *receiving* satisfactory archaeology reports made for the 1-35 and to be made for the 1-10 and 1-3 after surveys are made on June 4, 1981 for these wells.

K. Cumulative Impacts: These will depend on what is discovered at the locations drilled. The impacts of drilling the first three wells will be relatively minor unless an important discovery is made.

L. Adequacy of Restoration Plans: These seem adequate. Restoration would take place in a manner suitable to the Forest Service when the time comes that it is required. The Forest Service has contacted Marathon Oil Company with their recommendations via a letter dated February 17, 1981. (copy attached)

UNITED STATES DEPARTMENT OF AGRICULTURE

FOREST SERVICE

ASHLEY NATIONAL FOREST  
DUCHESNE RANGER DISTRICT  
P. O. Box 1  
Duchesne, Utah 84021

IN REPLY REFER TO: 2820

2/17/81

Mr. Ed Guynn  
U.S. Geological Survey  
200 Administrative Building  
1745 W. 1700 S.  
Salt Lake City, UT 84104

Dear Mr. Guynn:

The following is in regard to Marathon Oil's plans for drilling wells on the following leases:

Lease NO.	Well No.	Section	Township	Range	Meridian
U21678	1-35	35	6S.	9W.	U.S.M.
U22775	1-3	3	7S.	9W.	U.S.M.
<del>U7628</del> 22776	1-10	810	7S.	9W.	U.S.M.
U22775	1-4	4	7S.	9W.	U.S.M.
U22777	1-1	1	7S.	9W.	U.S.M.

In order to incorporate our concerns into Marathon Oil's 13 Point Plan for surface use we request that you forward the following conditions to Marathon for inclusion in their plan:

1. All trees that are cut for drilling pads and road clearance should be stacked for utilization by firewood Permittees.
2. All soil material should be stripped from pad locations and stockpiled prior to construction.
3. Line mud pits with bentonite to prevent ground water contamination.
4. Fence mud pits to keep out cattle and wildlife. Fences should be a minimum of 7' in height.
5. All Forest Service system roads must remain open to public use by allowing access through the drillsite or re-routing roads around the pad.
6. All road construction, maintenance and reconstruction should be in accordance with enclosed road specifications.
7. Water supply and waste water disposal shall conform with local and state health codes. Proposals for such, as they apply, should be submitted to the Forest Service for review and submission to the local health department for approval.



Page Two

8. Burning of oil in pits and other necessary burning shall be conducted in accordance with Forest Service burning regulations under a burning permit issued by the District Ranger.
9. Production facilities should be of colors which will blend with the surrounding environment as much as possible.
10. Rehabilitation shall be accomplished in accordance with the enclosed rehabilitation plan.

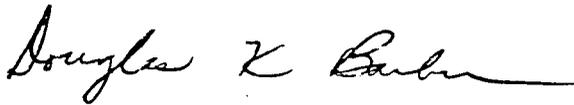
We have enclosed road use permit applications to be completed and returned. Also, enclosed is a letter with some recommendations from the Utah State Division of Wildlife Resources.

As of this time, archaeological surveys have been completed on sites 1-35 and 1-1 only. We plan to get back out at the earliest possible time after the snow is cleared to examine the remaining sites.

We have no objections to the drilling of a water well, however, we would like some more specific information as to its location. Any surface disturbance associated with its drilling will also have to be rehabilitated.

As a final recommendation, we strongly suggest that the drilling company discourage the possession of firearms while on the Forest. This will help prevent the accidental shooting of wildlife and cattle.

Sincerely,



Douglas K. Barber  
Acting District Ranger

Enc:

cc: Dave Black, S. O.

FROM: : DISTRICT GEOLOGIST, SALT LAKE CITY, UTAH

TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH

SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U 22776

OPERATOR: Marathon Oil Co.

WELL NO. 1-10

LOCATION: NW $\frac{1}{4}$ SW $\frac{1}{4}$  sec. 10, T. 7S, R. 9W, USM  
Utah County, Utah

1. Stratigraphy:

Green R. Fm (Surf)  
Green Shale Facies - Surf.  
Black Shale Facies - 650'  
Colton Fm - 1300'  
T.D. - 2275' in Colton Fm.

2. Fresh Water:

Fresh to usable water to T.D.

3. Leasable Minerals:

none

4. Additional Logs Needed:

none

5. Potential Geologic Hazards:

none known

6. References and Remarks:

UG & MS Bull. 100  
IAPG Guide book 1959

Signature: S. Gray & Partner

Date: 4 - 9 - 81

MARATHON OIL COMPANY  
DRILLING OPERATIONS PLAN

DATE: March 25, 1981

WELL NAME: Horse Ridge #1-10

LOCATION: 1,574' FNL & 202' FWL, NW/4 SW/4 NW/4, Sec. 10, T7S, R9W  
Uinta Special Meridian, Utah County, Utah

1. Geologic name of the surface formation:  
Green River "C" Formation
2. Estimated tops of important geological markers:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Wire Fence	277'	(+9,189')
Green River "D"/ Black Shale Facies	300'	(+9,166')
Green River "E"	650'	(+8,816')
Colton "A"	1,300'	(+8,166')
Colton "B"	1,640'	(+7,826')
T.D.	2,275'	(+7,191')

3. Estimated depths at which oil, water, gas or other mineral bearing formations are expected to be encountered:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>	<u>Probable Content</u>
Wire Fence	277'	(+9,189')	Water, Gas
Green River "D"/ Black Shale Facies	300'	(+9,166')	Water, Oil & Gas
Green River "E"	650'	(+8,816')	Water, Oil & Gas - Secondary Objective
Colton "A"	1,300'	(+8,166')	Water, Oil & Gas - Secondary Objective
Colton "B"	1,640'	(+7,826')	Water, Oil & Gas - Primary Objective

4. The Proposed Casing Program:

Casing Design

<u>CASING STRING</u>	<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT, GRADE AND JOINT</u>	<u>NEW OR USED</u>	<u>MUD WEIGHT</u>	<u>TENSION LOAD</u>	<u>SF<sub>t</sub></u>	<u>SF<sub>c</sub></u>	<u>SF<sub>b</sub></u>
Conductor	17-1/2"	0-40'	40'	13-3/8"	54.5#	New					
Surface	12-1/4"	0-500'	500'	9-5/8"	36.0#, K55,STC	New	9.4	18	23.5	8.18	3.13
Production	7-7/8"	0-2,275'	2,275'	5-1/2"	15.5#, K55,STC	New	9.4	35	6.3	3.59	4.70

Cement Program:

9-5/8" Casing

Cement Volume: 500 ft x .3132 cu. ft/ft x 2.0 excess = 320 cu. ft.

Slurry: 500' calculated plus 100% excess - 280 sacks of Class "G" cement containing 1/2#/sack cellophane flakes and 2% CaCl<sub>2</sub>.

Slurry Yield: 1.14 cu.ft./sack

Slurry Density: 15.9 lb/gal.

Water requirement: 5.00 gal/sack

Casing Equipment: Guide Shoe, insert float valve, 3 centralizers. WOC time will be a minimum of 8 hours. If float equipment holds, closed-in pressure after cementing is not recommended.

5-1/2" Casing

Cement Volume: 2,275 ft x .1733 cu. ft/ft. x 1.50 excess - 591 cu.ft.

Slurry: 2,275' calculated plus 50% excess from logs - 350 sacks of thixotropic cement (i.e. Halliburton Thickset w/1% component A, 1/4% component B, 3% salt) containing 1/4#/sack cellophane flakes, and 10 lbs. gilsonite per sack.

Slurry Yield: 1.69 cu.ft/sack

Slurry Density: 12.7 lb/gal

Water Requirement: 7.7 gal/sack

Casing Equipment: Guide shoe, float collar, 10 centralizers. If float holds, closed-in pressure after completion of cement job is not recommended. Set casing on slips as soon as possible following cement job.

Slurry Preflush: 20 bbls 2% KCl.

5. Pressure Control Equipment:

A diverter system shall be installed on the 13-3/8" conductor pipe prior to spudding the well to safely direct the flow of any fluid at the surface away from the rig. This system will consist of a rotating head, rigged up over a drilling spool and casing flange. Minimum O.D. of the relief line shall be at least 4" throughout the system.

Following setting of the 9-5/8" surface string, BOP equipment will include a double-ram type preventer with pipe and blind rams and a rotating head (API arrangement SRdG). All equipment will have a 3,000 psi or greater working pressure. Rams, valves, lines, choke manifold and casing will be tested to 200 psi for 5 minutes and 1,000 psi for 5 minutes prior to drilling out from under 9-5/8" surface casing. After drilling casing shoe and 5 feet of additional hole, a shoe test will be performed to 13.0 ppg equivalent mud weight or leakoff, whichever occurs first. The accumulator should be of sufficient capacity to meet the following requirements:

1. Ability of immediate closure to all members of the stack without recharging.
2. A total of 50% of the original fluid should remain as a reserve after accumulator activation.
3. A minimum pressure of 1,200 psi is required to insure that the preventers remain closed.

Visual checks of the equipment will be made tourly. Function pipe rams daily and blind rams on trips.

6. Drilling Mud Program:

<u>From</u>	<u>To</u>	<u>Type Mud</u>	<u>Weight</u>	<u>% Oil</u>	<u>Water Loss</u>
Surface	500'	Gel/Water	8.5-8.9	N/A	N/A
500'	2,275'	Air	N/A	N/A	N/A

If excessive water production is encountered while air-drilling, it may be necessary to change-over to an aerated water system. However, pits will be maintained at all times with sufficient fluid level to fill the wellbore if a rapid change-over is necessary.

7. Auxillary Equipment Required:

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

The mud system will include a shale shaker, desander/desilter, gas buster/degasser. Both a remote adjustable choke and a manual choke will be used.

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

7. Auxillary Equipment Required (Cont.):

A single shot drift indicator will be used.

Equipment for air drilling will include compressors & booster, chemical injection pump, fire stop and fire float will be used.

<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'	500'	250'	1°	1°
500'	2,275'	250'	5°	1°

No faulting is anticipated.  
 The beds dip 5-6° NE.

8. Testing, Logging, Coring and Fracing Program:

When drilling with mud, samples will be taken at 10' intervals from surface to T.D. When air-drilling, samples will be taken at 30' intervals. A mud logging unit will be on the well from surface to T.D.

The 7-7/8" hole will be air-drilled unless severe water production is encountered. The following logs will be run in the unfilled wellbore from T.D. to surface casing shoe" DIL, GR, FDC, SNP, CAL, with GR to surface.

Two DST's are anticipated, one in the Green River Formation, and one in the Colton Formation, or as shows warrant.

No cores are anticipated.

Fracing Program:

Acid fraced with 500 gallons of 15% acid for each zone.

Proposed if needed, fracing with 30,000 gallons of gelled water and 50,000 #20/40 sand. See diagram "F".

9. Abnormal Conditions:

Normal pressure and temperature gradients are anticipated.

A maximum pressure of 2,250 psi is expected at T.D.

A maximum temperature of 100<sup>0</sup> F is expected at T.D.

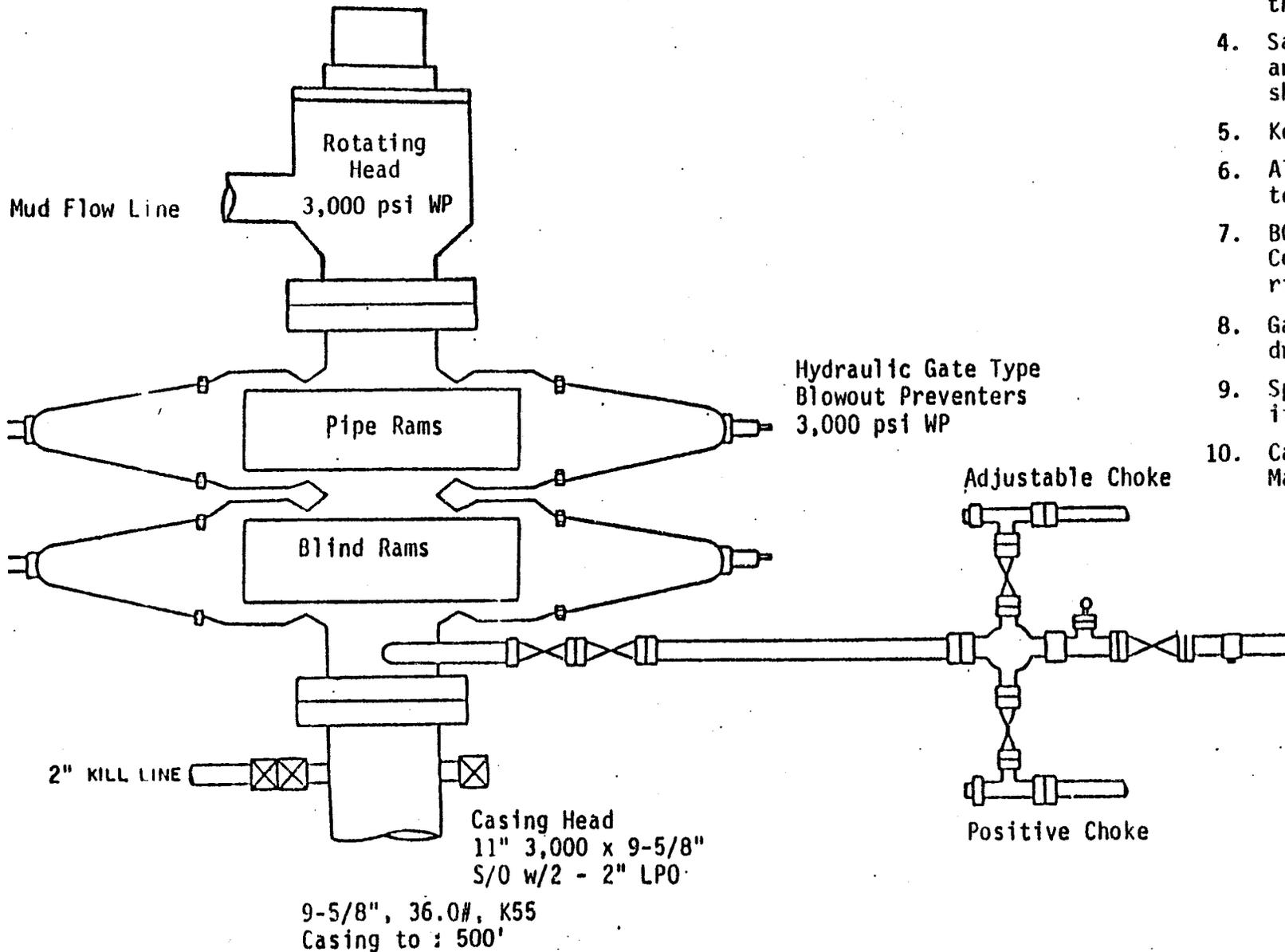
10. Anticipated starting date and duration:

Starting Date: 2nd Quarter, 1981

Duration: 10 days

Name Michael E. Kugh  
Title District Drilling Supt  
Date 3-24-81

Horse Ridge #1-10  
 1,574' FNL, 202' FWL  
 Section 10, T7S, R9W  
 Utah County, Utah  
 9,466' GL



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. Controls may be either on floor or ground near steps from rig floor.
8. Gauge will be installed for testing but removed while drilling.
9. Spool not required, but when side outlet on BOP's is used, it must be below bottom ram.
10. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.

MARATHON OIL COMPANY  
SURFACE USE & OPERATIONS PLAN

DATE: March 25, 1981

WELL NAME: Horse Ridge Well Unit #1-10

LOCATION: 1,574' FNL & 202' FWL, NW/4 SW/4 NW/4 Sec. 10, T7S, R9W  
Uinta Special Meridian, Utah County, Utah

#1 Existing Roads:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes).  
See surveyors plat
- B. Route and distance from nearest town and locatable reference point to where well access route leaves main road.  
30 miles northwest of Price, Utah in the Ashley National Forest.
- C. Access road(s) to location color-coded or labeled.  
See map diagram "A" color coded Green.
- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).  
See map diagram "A"
- E. If development well, all existing roads within a 1-mile radius of well site.  
Not applicable.
- F. Plans for improvement and/or maintenance of existing roads.  
All work will be done in accordance with specifications of U. S. Forest Service, Duchesne, Utah (verbal agreement between U. S. Forest Service & Marathon 3/12/81)

#2 Planned Access Roads:

Map showing all necessary access roads to be constructed or reconstructed, showing:

- (1) Width 18'
- (2) Maximum grades 0-5%
- (3) Turnouts None required
- (4) Drainage design  
Ditched and crowned trailer ditches where needed.
- (5) Location and size of culverts and brief description of any major cuts and fills.  
None anticipated.
- (6) Surfacing material  
See #1, Item F.
- (7) Necessary gates, cattleguards, or fence cuts.  
No cattle guards or fence cuts will be required.
- (8) (New or reconstructed roads are to be center-line flagged at time of location staking).  
See map diagram "A" color coded Green.

#3 Location of Existing Wells:

Two-mile radius map if exploratory, or 1-mile radius map if development well, showing and identifying existing:

- |  |      |
|--|------|
| (1) Water wells  | None |
| (2) Abandoned wells                                      | None |
| (3) Temporary abandoned wells                            | None |
| (4) Disposal wells                                       | None |
| (5) Drilling wells                                       | None |
| (6) Producing wells                                      | None |
| (7) Shut-in wells  | None |
| (8) Injection wells                                      | None |
| (9) Monitoring or observation wells for other resources. | None |

#4 Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location show the following existing facilities owned or controlled by lessee/operator:

- |  |      |
|--|------|
| (1) Tank Batteries   | None |
| (2) Production Facilities  | None |
| (3) Gathering Lines  | None |
| (4) Gas Gathering Lines  | None |
| (5) Injection Lines (Indicate if any of the above lines are buried). | None |
| (6) Disposal Lines   | None |

B. If new facilities are contemplated, in the event of production, show:

- (1) Proposed location and attendant lines by flagging if off of well pad.

Adjacent to the access road and as close to the proposed drill site as possible without setting on any fill. See diagram "B".

- (2) Dimensions of Facilities

See diagram "B".

- (3) Construction methods and materials:

Good engineering practices will be used in the construction of these facilities and any needed materials will be obtained through local vendors and contractors.

- B. If new facilities are contemplated, in the event of production, show:  
(cont'd)
- (4) Protective measures and devices to protect livestock and wildlife.

Woven wire fences of the pit areas and flagging, if necessary.

- C. Plans for rehabilitation of disturbed areas no longer needed for operations after construction completed.

Restoration of the drill site and tank battery areas will be reshaped to conform with the topography. The topsoil will be redistributed at the proper time. The sites will be reseeded as per the recommended seed mixture.

#5 Location and Type of Water Supply:

- A. Show location and type of water supply either on map or by written description.

This is the third of three wells to be drilled in the area. A water well will be drilled on or near the first well location, Horse Ridge #1-35. Water will be hauled from that proposed water well to Horse Ridge #1-10 location.

- B. State method of transporting water, and show any roads or pipelines needed.

See diagram "A" for proposed water haul route. Color coded blue.

- C. If water well is to be drilled on lease, so state. (No APD for water well necessary, however, unless it will penetrate potential hydrocarbon horizons).

A proposed water well is to be drilled on or near one of the three well sites.

#6 Source of Construction Materials:

- A. Show information either on map or by written description.

Construction materials will be native soil or purchased from a Jobber and hauled to the well site by same.

- B. Identify if from Federal or Indian Land.

None

- C. Describe where materials, such as sand, gravel, stone and soil material, are to be obtained and used.

Any materials will be purchased from a Jobber and hauled to the well site.

- D. Show any needed access roads crossing Federal or Indian Lands under Item 2.

None

#7 Methods of handling Waste Disposal:

Describe methods and location of proposed containment and disposal of waste material, including:

- |                                  |             |
|----------------------------------|-------------|
| (1) Cuttings                     | Reserve Pit |
| (2) Drilling fluids              | Reserve Pit |
| (3) Produced fluids (oil, water) | Swab Tanks  |

#7 Methods of Handling Waste Disposal: (cont'd)

- (4) Sewage            Porta Pot
- (5) Garbage and other waste material (Trash pits will be completely contained with small mesh wire to prevent wind scattering trash before being disposed of).

There will be a 10 x 10 burn pit on the drill site, and will be fenced.

- (6) Statement regarding proper cleanup of well site area when rig moves out.

At the completion of drilling, the site and surrounding area will be cleaned up and all burnable material will be put in the burn pit and burned. All foreign material will be disposed of.

#8 Ancillary Facilities:

Identify all proposed camps and airstrips on a map as to their location, area required and construction methods. (Camp center and airstrip center lines to be staked on the ground).

None planned

#9 Wellsite Layout:

A plat (not less than 1" = 50') showing:

- (1) Cross sections of drill pad with cuts and fills.  
See diagram "C".
- (2) Location of mud tanks, reserve, burn and trash pits, pipe racks, living facilities and soil material stockpiles.  
See diagram "D".
- (3) Rig orientation, parking areas and access roads.  
See diagram "D"
- (4) Statement as to whether pits are to be lined or unlined. (Approval as used in this section means field approval of location. All necessary staking of facilities may be done at time of field inspection). A registered surveyor is not mandatory for such operations.

The lining of the pit will be decided upon by members of the U. S. Forest Service and Marathon (verbal agreement between U. S. Forest Service & Marathon 3/12/81) at the time it is made.

#10 Plans for Restoration of Surface:

See diagram "C".

State restoration program upon completion of operations, including:

- (1) Backfilling, leveling, contouring and waste disposal; segregation of spoils materials as needed.  
The drill site will be cleaned and waste material will be put in the trash burn pit, which will be covered at the finish of the drilling operation. The reserve pit will be back filled as soon as it dries.
- (2) Revegetation and rehabilitation - including access roads (normally per BLM recommendations).

The top soil will be redistributed and at the proper season the seed mixture of U.S.F.S. requirements will be drilled planted.

#10 Plans for Restoration of Surface: (cont'd)

- (3) Prior to rig release, pits will be fenced and so maintained until cleanup. (U.S.F.S. specifications)  
The reserve pit will be fenced on 3 sides during drilling.  
At the completion of the drilling, all pits will be fenced on the one remaining side.
- (4) If oil on pit, remove oil or install overhead flagging.  
  
If there is oil on the reserve pit, it will be removed or flagged with overhead flagging.
- (5) Timetable for commencement and completion of rehabilitation operations.

Depending upon climatic conditions, restoration should be completed from six months to one year after abandoning well.

#11 Other Information:

General Description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna.  
  
This information will be incorporated in the archeological report. The U. S. Forest Service will use their own archeologist.
- (2) Other surface use activities and surface ownership of all involved lands.  
  
The drill site and access road is owned by U. S. Government. The administrator is the U. S. Forest Service, Duchesne, Utah.
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites.

There is no water or occupied dwellings in the area. Archeologist will be from the U. S. Forest Service, Duchesne, Utah.

#12 Lessee's or Operator's Representative:

Mike E. Krugh	Marathon Oil Company	(307) 577-1555 Office
	P. O. Box 2659	(307) 577-1664 Home Phone
	Casper, WY 82602	

#13 Certification: The following statement is to be incorporated in the plan and must be signed by the lessee's or operator's field representative who is identified in item No. 12 of the plan:

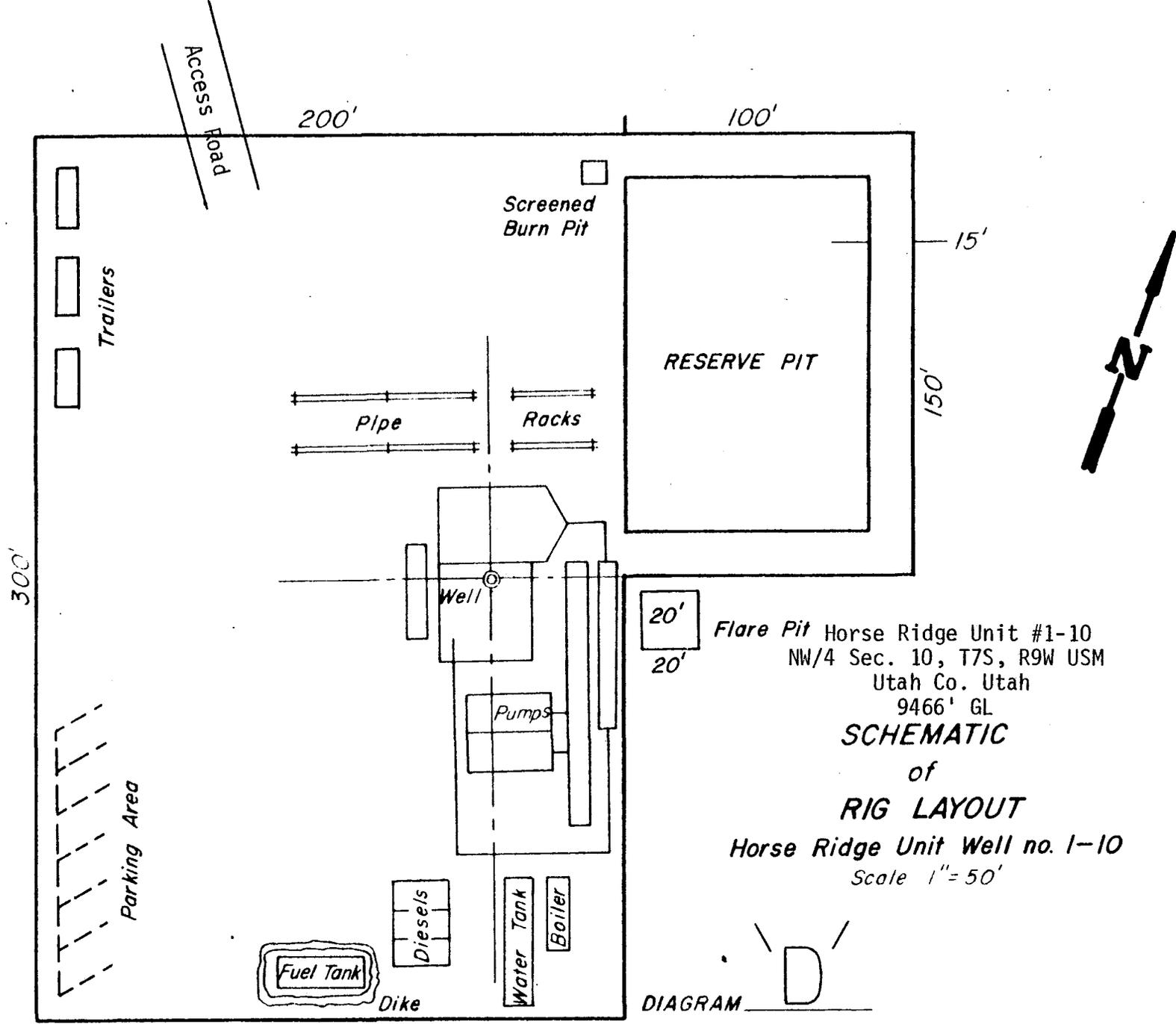
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated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

3-24-81  
Date

Michael E. Krugh  
Name

District Drilling Supt.  
Title





Access Road

200'

100'



Trailers

Screened Burn Pit

15'

RESERVE PIT

150'



Pipe



Racks

300'

Well

20'

Flare Pit Horse Ridge Unit #1-10  
 NW/4 Sec. 10, T7S, R9W USM  
 Utah Co. Utah  
 9466' GL

20'

SCHEMATIC

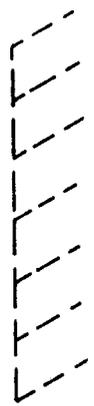
of

RIG LAYOUT

Horse Ridge Unit Well no. 1-10

Scale 1"=50'

Pumps



Parking Area

Diesels

Fuel Tank

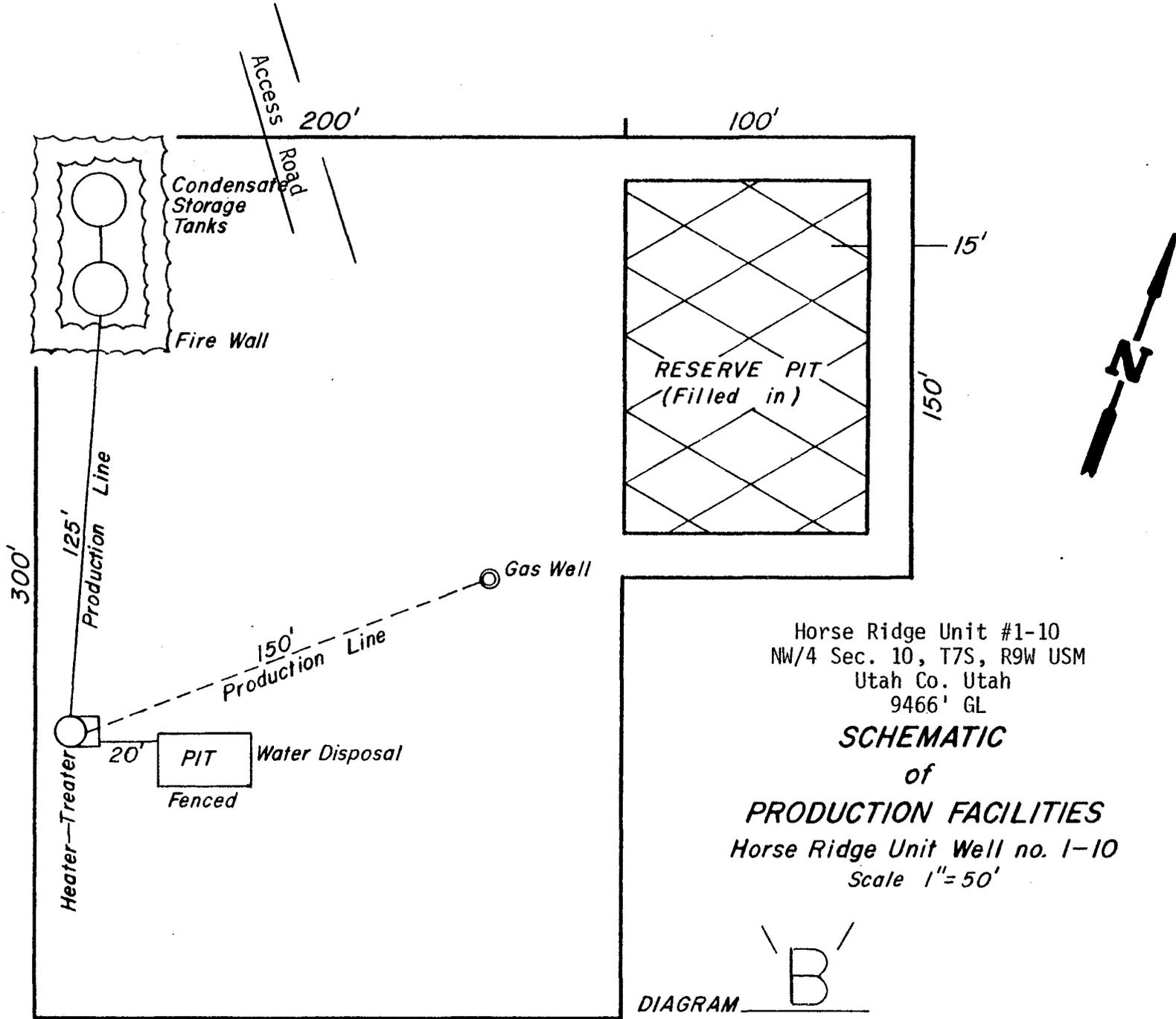
Dike

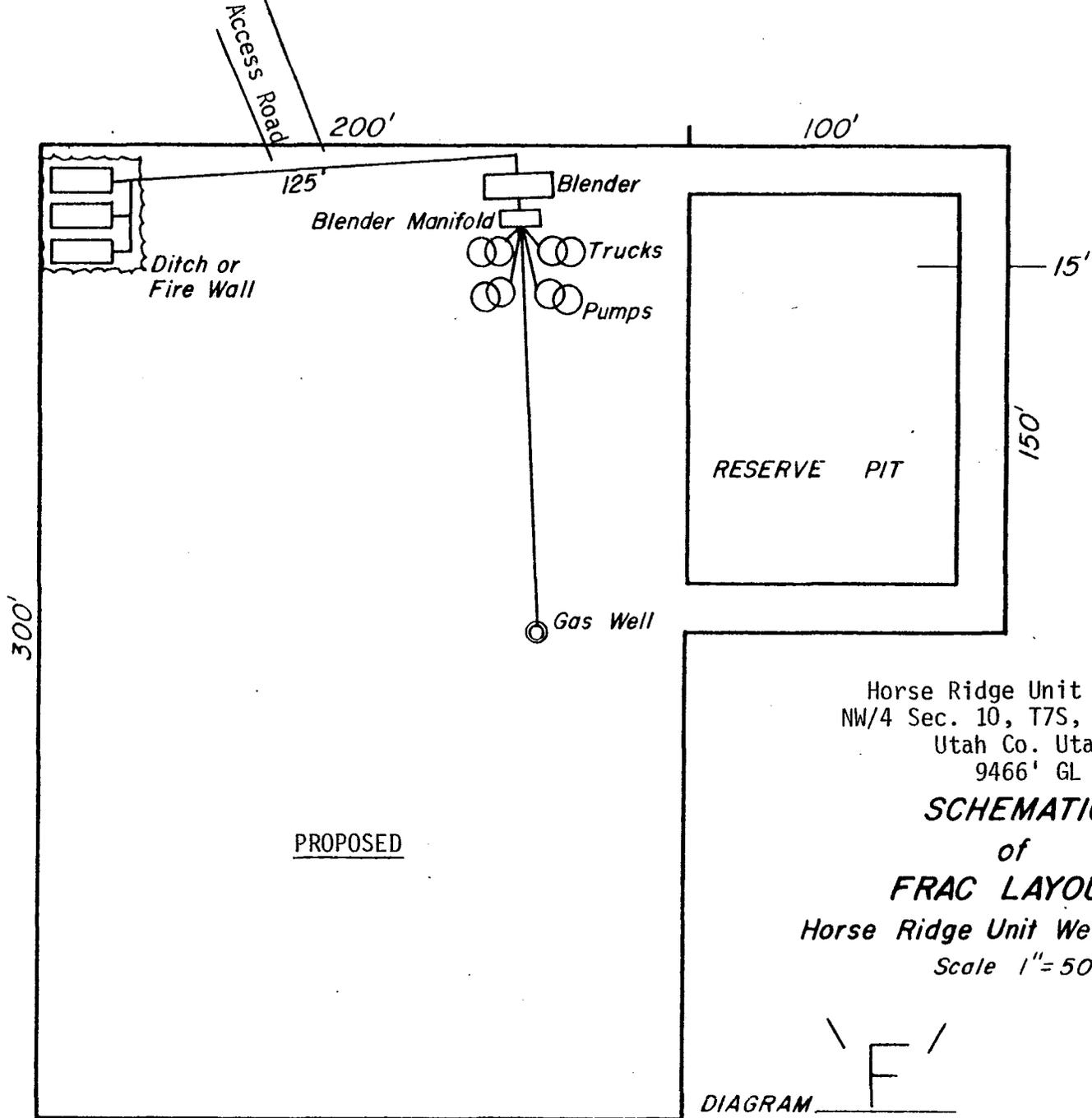
Water Tank

Boiler

DIAGRAM







Horse Ridge Unit #1-10  
 NW/4 Sec. 10, T7S, R9W USM  
 Utah Co. Utah  
 9466' GL

**SCHEMATIC**  
 of  
**FRAC LAYOUT**  
 Horse Ridge Unit Well no. 1-10  
 Scale 1"=50'

DIAGRAM     F

*Copy for state of Utah* 5  
 SUBMIT IN REGULATE\*  
 (Other instructions on reverse side)  
 Form approved.  
 Budget Bureau No. 42-R1425.

UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK  
 DRILL  DEEPEN  PLUG BACK

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

2. NAME OF OPERATOR  
 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  
 1,574' FNL & 202 FWL, NW/4 SW/4 NW/4  
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE\*  
 30 Miles Northwest of Price, Utah

15. DISTANCE FROM PROPOSED\* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any)  
 202'

16. NO. OF ACRES IN LEASE  
 2135.29

17. NO. OF ACRES ASSIGNED TO THIS WELL  
 40

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

19. PROPOSED DEPTH  
 2,275' Cotton

20. ROTARY OR CABLE TOOLS  
 Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)  
 9,466' GL

22. APPROX. DATE WORK WILL START\*  
 2nd Quarter, 1981

5. LEASE DESIGNATION AND SERIAL NO.  
 U 22776

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
 Horse Ridge

9. WELL NO.  
 1-10

10. FIELD AND POOL, OR WILDCAT  
 Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
 Sec. 10, T7S, R9W  
 Uinta Special Meridian

12. COUNTY OR PARISH  
 Utah

13. STATE  
 Utah

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
Please see Item #4 of 10 Point Program for complete Casing and Cementing Program				

**APPROVED BY THE DIVISION OF OIL, GAS, AND MINING**  
 DATE: 5/21/81  
 BY: Cheryl [Signature]

Please see the following attachments:

1. Surveyor's Plat
2. Ten-Point Drilling Program
3. BOP Schematic
4. Thirteen-Point Surface Plan
5. Maps and Diagrams

**RECEIVED**

**MAR 30 1981**

DIVISION OF OIL, GAS & MINING

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 Bald Caddy TITLE District Operations Manager DATE March 25, 1981

(This space for Federal or State office use)

PERMIT NO. 43-049-30011 APPROVAL DATE

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:



Scale: 1" = 1,000'

Found Limestone 10"x5" set solid 6" above ground oriented N20°W with 3 notches on South and 3 notches on the East side.  
Set: Green metal post 5.0' West.

S 89° 50' W - 79.88 ch. (Call)  
N 89° 43' E - 5261.0' (SPM)

N 89° 49' E

N 89° 57' E

5263.6'  
(SPM)

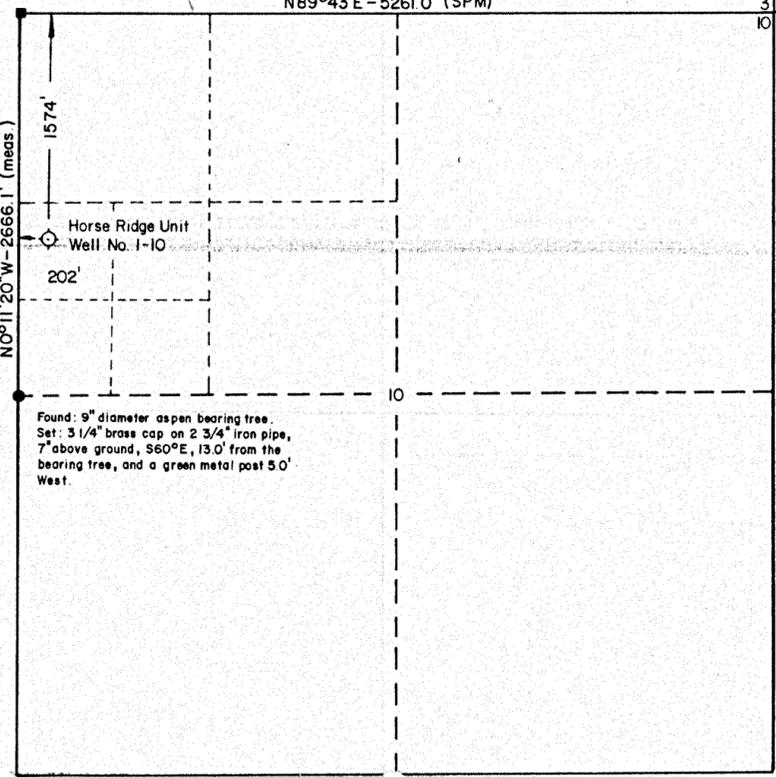
211

1112

2640.4'  
(SPM)

Found: Sandstone 14"x3 1/2", set solid 13" above ground with 1/4" on North face.  
Set: Green metal post 5.0' West.

S 0° 02' E - 80.00 ch. (Call)  
N 0° 11' 20" W - 2666.1' (meas.)



Found: 9" diameter aspen bearing tree.  
Set: 3 1/4" brass cap on 2 3/4" iron pipe, 7" above ground, S60°E, 13.0' from the bearing tree, and a green metal post 5.0' West.

S 89° 44' W - 10 ch. (Call)

S 0° 01' E - 80.00 ch. (Call)

T 7 S - R 9 W

**Legend**

- - Brass cap monument
- - Stone monument
- SPM - Established by single proportionate measurement
- Orientation by Solar Observation

I, William H. Smith of Green River, Wyoming hereby certify that in accordance with a request from Walt West of Casper, Wyoming for Marathon Oil Company made a survey on the 7th day of November 1980 for location and elevation of the Horse Ridge Unit Well No. 1-10. As shown on the above map, the wellsite is in the NW/4 SW/4 NW/4 of Section 10, Township 7 South, Range 9 West of the Uinta Special Meridian, Utah County, State of Utah. Elevation is 9466 feet ungraded ground. Datum USGS Spot elevation 8970 ± 400' Westerly from the East quarter section corner of Section 1, T 7 S, R 9 W. Said point being marked with 3 1/2" brass cap set in sandstone.

Reference Point	North	300.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9452.1
Reference Point	East	186.5'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9442.3
Reference Point	South	300.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9479.5
Reference Point	West	250.0'	Set 5/8"x24" rebar and lath with flagging	Elevation top rebar = 9478.6

*William H. Smith*  
UTAH R.L.S. NO. 2764

WELL LOCATION PLAT  
of  
Horse Ridge Unit Well No. 1-10  
for  
Marathon Oil Company  
Prepared by  
William H. Smith and Associates, P.C.  
Surveying Consultants  
P.O. Box 654  
Green River, Wyoming 82935

Drawn by: *WJ*

Job No. 139-80

Revised: 12/4/80

\*\* FILE NOTATIONS \*\*

DATE: 5/15/81  
 OPERATOR: Marathon Oil Company  
 WELL NO: Horse Ridge 1-10  
 Location: Sec. 10 T. 7S R. 9W County: Utah

File Prepared:  Entered on N.I.D.:   
 Card Indexed:  Completion Sheet:

API Number 43-049-30011

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
 \_\_\_\_\_

Director: OK per Rule C-3(c) Topo map  
abrevious condition own or control lease  
within 660' of proposed location

Administrative Aide: OK as per C-3(c) - Needs to submit  
topo for move well). OK on any other oil &  
gas wells.

APPROVAL LETTER:

Bond Required:  Survey Plat Required:

Order No. \_\_\_\_\_ O.K. Rule C-3

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

Lease Designation  Plotted on Map

Approval Letter Written

Hot Line  P.I.

June 4, 1981

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

Re: Well No. Horse Ridge 1-10  
Sec. 10, T. 7S, R. 9W, SW NW  
Utah County, Utah

Insofar as this office concerned, approval to drill the above referred to oil well on said unorthodox location is hereby granted in accordance with Rule C-3(c), General Rules and Regulations and Rules of Practice and Procedure. However, this Division requires that a letter be sent to this office stating that Marathon Oil owns or controls the acreage within a 660' radius of the proposed well site, and a written statement as to the necessity of unorthodox location.

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

MICHAEL T. MINDER - Petroleum Engineer  
Office: 533-5771  
Home: 876-3001

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

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-049-30011.

Sincerely,

DIVISION OF OIL, GAS, AND MINING

Cleon B. Feight  
Director

CBF/ko

**SUPERIOR OIL**

**RECEIVED**

JUL 30 1981

July 28, 1981

**DIVISION OF  
OIL, GAS & MINING**

Utah Division of Oil, Gas & Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

ATTENTION: Cleon B. Feight

RE: Horse Ridge Unit  
Superior #43-0-2-53  
Marathon Operator  
Duchesne, Utah and Wasatch Counties  
Utah

Dear Mr. Feight:

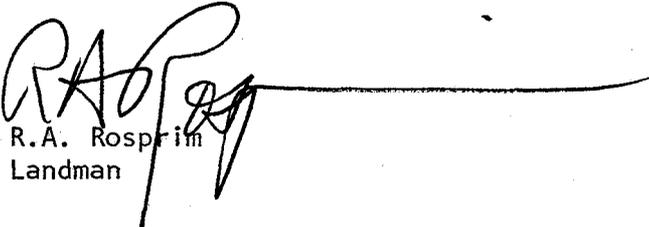
Earl Brown of Marathon Oil Company has advised us that you require a concurrence from Superior Oil Company regarding the drilling of Horse Ridge Unit Well #1-10. Please be advised that Superior concurs and approves in the drilling of this well at the proposed location. This location is 1574' FNL and 202' FWL, Section 10, T7S-R9W, Utah County, Utah.

Marathon has also proposed two other locations in this unit. These are the #1-35 in Section 35, T6S-R9W and the #1-3 in Section 3, T7S-R9W. Superior also approves of the proposed locations relative to its leases in this unit.

Please advise if you need any additional information from us regarding these proposed wells.

Respectfully,

THE SUPERIOR OIL COMPANY

  
R.A. Rosprim  
Landman

RAR/cbb

cc: Earl Brown  
Marathon Oil Company  
P.O. Box 120  
Casper, Wyoming 82602

The Superior Oil Company

Western Division

1860 Lincoln St., Suite 800,  
Lincoln Tower Building, Denver, CO 80295  
(303) 861-8261, Twx: 910 931 2539



P.O. Box 120  
Casper, Wyoming 82602  
Telephone 307/235-2511

July 29, 1981

State of Utah  
Department of Natural Resources  
Division of Oil, Gas, and Mining  
1588 West North Temple  
Salt Lake City, Utah 84116

**RECEIVED**

JUL 31 1981

**DIVISION OF  
OIL, GAS & MINING**

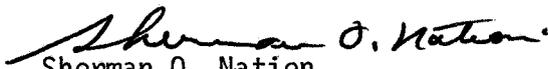
Gentlemen:

Re: Well No. Horse Ridge 1-10  
SW $\frac{1}{4}$ NW $\frac{1}{4}$  Sec. 10, T7S, R9W, USM  
Utah County, Utah

In reply to your letter of June 4, 1981, requesting a letter stating Marathon owns or controls the acreage within a 660' radius of the proposed well, be advised that Superior Oil will be advising you they have no objection as they are the lessee to the west within the 660' radius. Marathon is the lessee of Federal lease No. 22776, on which the well is proposed.

The necessity for this unorthodox location is due to terrain. At an on-site inspection on June 2, 1981, representatives from the U.S.G.S. and the Forest Service also agreed to this location.

Yours truly,

  
Sherman O. Nation  
Area Land Supervisor

SON/REB/mm

cc: Rick Rosprim, Superior Oil  
W. E. West

165 26E #3 165-4  
178 24E 11415 165-4

Rule 30 CFR 221.20 requires well shall not be drilled closer than 200 feet from the lease boundary, or 200 feet from any legal subdivision, without adequate reasons or consent.

District Oil and Gas Supervisor  
U. S. Geological Survey  
Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

**RECEIVED**  
AUG 14 1981

Horse Ridge #1-10

DIVISION OF  
OIL, GAS & MINING

Re: Stipulation

Dear Sir:

Marathon Oil Company is the owner of Federal Oil and Gas Lease U-22776, and proposes to drill a well on the leased premises to test for oil and gas at a location in the SW ¼ NW ¼, Section 10, Township 7S, Range 9W, U.S. Meridian, Utah          County, State of Utah, 1,574' from north line, and 202' from west line of Section 10.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200 feet from the boundary of any legal subdivision without the written consent of the Supervisor, United States Geological Survey. The proposed location is approximately 202' from the north west boundary line of the SW ¼ NW ¼ of Section 10, but is considered to be necessary because of terrain difficulties and agreed to by U.S.G.S. representative Greg Donaldson at the on-site inspection made on June 2, 1981. The Forest Service representatives also agreed to the location.

Therefore, Marathon, Lessee, requests the consent of the Supervisor to the drilling of the proposed well at the above-described location. In consideration of such consent, Marathon, Lessee, hereby expressly covenants and agrees that he will make no separate assignments of the N ½ NW ¼, and the S ½ NW ¼, Section 10, Township 7S, Range 9W, U.S. Meridian, and that he will keep the two described subdivisions under joint assignment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

Sincerely,

*Sherman O. Nation*  
Sherman O. Nation  
Area Land Supervisor

SUBMIT IN TRIPLICATE

Rule 30 CFR 221.20 requires well shall not be drilled closer than 200 feet from the lease boundary, or 200 feet from any legal subdivision, without adequate reasons or consent.

District Oil and Gas Supervisor  
U. S. Geological Survey  
Conservation Division  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

Horse Ridge #1-10

Re: Stipulation

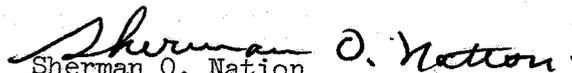
Dear Sir:

Marathon Oil Company is the owner of Federal Oil and Gas Lease U-22776, and proposes to drill a well on the leased premises to test for oil and gas at a location in the SW  $\frac{1}{4}$  NW  $\frac{1}{4}$ , Section 10, Township 7S, Range 9W, U.S. Meridian, Utah County, State of Utah, 1,574' from north line, and 202' from west line of Section 10.

Section 221.20 of the Federal Oil and Gas Regulations requires that no well be drilled less than 200 feet from the boundary of any legal subdivision without the written consent of the Supervisor, United States Geological Survey. The proposed location is approximately 202' from the north west boundary line of the SW  $\frac{1}{4}$  NW  $\frac{1}{4}$  of Section 10, but is considered to be necessary because of terrain difficulties and agreed to by U.S.G.S. representative Greg Donaldson at the on-site inspection made on June 2, 1981. The Forest Service representatives also agreed to the location.

Therefore, Marathon, Lessee, requests the consent of the Supervisor to the drilling of the proposed well at the above-described location. In consideration of such consent, Marathon, Lessee, hereby expressly covenants and agrees that he will make no separate assignments of the N $\frac{1}{2}$  NW  $\frac{1}{4}$ , and the S $\frac{1}{2}$  NW  $\frac{1}{4}$ , Section 10, Township 7S, Range 9W, U.S. Meridian, and that he will keep the two described subdivisions under joint assignment until the above-mentioned well has been plugged and abandoned with the approval of the Supervisor.

Sincerely,

  
Sherman O. Nation  
Area Land Supervisor



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

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

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

April 5, 1982

Marathon Oil Company  
P. O. Box 120  
Casper, Wyoming 82602

Re: Well No. Horse Ridge #1-10  
Sec. 10, T. 7S, R. 9W.  
~~Duchesne~~ County, Utah

UTAH

Gentlemen:

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

This office has not received any notification of spudding. If you do not intend to drill this well, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill this well, and action will be taken to terminate the application. If you plan to drill this location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

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

Cari Furse  
Clerk Typist



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

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

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

February 3, 1982

Marathon Oil Company  
P. O. Box 120  
Casper, Wyoming 82602

Re: Well No. Horse Ridge 1-10  
Sec. 10, T. 7S, R. 9W  
Utah County, Utah

Gentlemen:

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

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

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS AND MINING

Cari Furse  
Clerk Typist



**Marathon  
Oil Company**

P.O. Box 120  
Casper, Wyoming 82602  
Telephone 307/235-2511

April 13, 1982

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

Attn: Cari Furse

Re: Well No. Horse Ridge #1-35  
Sec. 35, T6S-R9W  
Duchesne County, Utah

Well No. Horse Ridge #1-10  
Sec. 10, T7S-R9W  
~~Duchesne County, Utah~~

Well No. Horse Ridge #1-3  
Sec. 3, T7S-R9W  
Duchesne County, Utah

*UTAH*

Gentlemen:

In reference to your letter dated April 5, 1982, regarding the above-mentioned wells, please be informed that Marathon Oil Company still plans to drill the three wells. If any further correspondence is necessary, please send it to my attention at the following address:

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

Sincerely,

James H. Youngflesh  
Area Land Supervisor

JHY/mm



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

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

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

March 12, 1983

Marathon Oil Company  
P. O. Box 120  
Casper, Wyoming 82602  
Att: James H. Youngfish

Re: Well No. Horse Ridge # 1-10  
Sec. 10, T. 7S, R. 9W.  
Utah County, Utah

Gentlemen:

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

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

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

Your prompt attention to the above will be greatly appreciated.

Respectfully,

DIVISION OF OIL, GAS AND MINING

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

Cari Furse  
Well Records Specialist

CF/cf



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

March 18, 1983

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

Attention: Ms. Cari Furse

Dear Ms. Furse:

Re: Well No. Horse Ridge #1-10  
Sec. 10, T. 7 S., R. 9 W.  
Utah County, Utah

This letter is to notify the State of Utah that Marathon will not be drilling the referenced well at this time and have no plans for drilling it at a later date. Therefore, per your request, attached is an extra copy of this letter for your signature, which notifies both parties that the well will not be drilled.

I am sorry that we did not notify you more quickly that we would not be spudding the referenced well. Thank you for bringing it to our attention.

Sincerely,

A handwritten signature in cursive script that reads 'James H. Youngflesh'.

James H. Youngflesh  
District Landman

JHY/mm

Status acknowledgement of well #1-10  
dated this 23 day of March, 1983

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

RECEIVED  
MAR 22 1983

DIVISION OF  
OIL GAS & MINING