

UTAH DIVISION OF OIL GAS AND MINING

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

DATE FILED 12-3-79

LAND: FEE & PATENTED STATE LEASE NO. PUBLIC LEASE NO. U-25455 INDIAN

DRILLING APPROVED: 12-3-79

SPUDED IN:

COMPLETED: PUT TO PRODUCING:

INITIAL PRODUCTION:

GRAVITY A.P.I.

GOR:

PRODUCING ZONES:

TOTAL DEPTH:

WELL ELEVATION: 7044' GL

DATE ABANDONED: LOCATION ABANDONED * WELL NEVER DRILLED 4-20-81

FIELD: Wildcat 3/86

UNIT:

COUNTY: Rich

WELL NO. Otter Creek 1-28 API NO: 43-033-30025

LOCATION 660' FT. FROM (N) ~~XX~~ LINE. 660' FT. FROM (E) ~~XX~~ LINE. C NE NE 1/4-1/4 SEC. 28

TWP.	RGE.	SEC.	OPERATOR	TWP.	RGE.	SEC.	OPERATOR
<u>12N</u>	<u>6E</u>	<u>28</u>	<u>MARATHON OIL COMPANY</u>				



P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/265-7693

November 26, 1979

Mr. F. M. Hammer
Chief Petroleum Engineer
State Of Utah
Division of Oil, Gas & Minerals
1588 West North Temple
Salt Lake City, Utah 84116

Re: Otter Creek #1-28
660' FNL & 660' FEL
Sec. 28, T12N, R6E
Rich County, Utah

Dear Mr. Hammer:

Submitted for your consideration is a list of equipment and procedures proposed for the monitoring and control of any H₂S gas encountered during the drilling of the above referenced well.

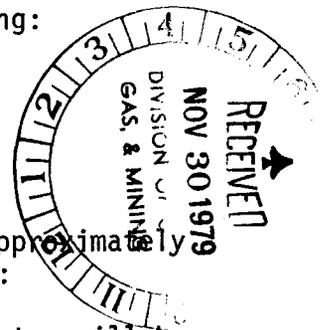
The drilling rig will be spotted so as the prevailing wind is blowing towards the pits. The mud loggers and other trailers on location will be placed at safe distances from the B.O.P. stack, (a minimum of 125 feet). Radio or telephone communications will be available at the rig.

The following equipment will be on location prior to spudding:

1. Siren (Explosion Proof)
2. 3 fixed gas monitors
3. Flashing warning light (Explosion Proof)
4. 12 - 40 cubic feet, self contained breathing apparatus.

The following contingency plan will be put into effect at approximately 9,250', or 1,000' above anticipated entry of the Phosphoria:

1. Sufficient 40 cubic feet self-contained breathing apparatus will be available and placed at critical locations to protect operating personnel on location.
2. Dual monitor complete with visual and audible alarm system. (One Monitor will be located at the bell nipple and the other at the shale shaker.)
3. Three wind socks with streamers.
4. Marked locations of designated safe areas and escape routes.
5. Warning signs will be located no closer than 1/2 mile from the drilling site.
6. Personnel will be trained in the use of all safety equipment. (Names and dates of training will be posted on location.)
7. An approved contingency plan will be available and posted on location prior to starting operations.



Mr. F. M. Hamner

8. Only authorized personnel will be allowed on drill site.
9. Initial contact will be made with local Sheriff's office, District Highway Patrol office, and area medical personnel.
10. Two bug fans, flowing opposite designated safe areas.
11. Safety trailer with 15-300 C.F. cylinder cascade air supply system.
12. 1,000' low pressure air line hose with quick connects.
13. Two low pressure manifolds.
14. Eight air line masks with emergency escape cylinders.
15. Six 30-minute self-contained breathing apparatus.
16. First aid kit (36 unit).
17. Oxygen powered resuscitator with cylinder.
18. Flare gun with shells.
19. Gas detector (pump type).

If you require any information, please do not hesitate to call me.

Very truly yours,

MARATHON OIL COMPANY



K. A. Thoma
Drilling Superintendent

KAT/WW:eh
Enclosure

cc: Mr. Ed Guynn
District Engineer
U.S.G.S.
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Mr. R. F. Bolender
Marathon Oil Company
P. O. Box 120
Casper, Wyoming 82602

Mr. George Diwachak
Environmental Scientist
U.S.G.S.
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138

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
 660' FNL & 660' FEL CUE NE
 At proposed prod. zone

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*
 5 miles Southeast and 4-1/2 miles Southwest of Laketown, Utah

15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any)
 660'

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

21. ELEVATIONS (Show whether DF, RT, GR, etc.)
 7,044' GL

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
24"	20"	UKN	50'	50 sacks
17-1/2"	13-3/8"	54.5#	1,100'	
12-1/4"	10-3/4"	61.0#	2,500'	1,885 sacks
		51.0#	3,750' *	
		55.5#	6,000'	315 sacks
9-1/2"	7-5/8"	33.7#	7,600'	
		39.0#	12,500'	425 sacks

- * Depth of intermediate casing will depend on hole conditions. Please see the following attachments:
 1. Surveyor's Plat
 2. Ten-Point Drilling Program
 3. BOP Schematic
 4. Thirteen Point NTL-6
 5. Maps, Diagrams, Protection Stipulation, copy of H2S contingency letter

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 T. Caddy by [signature] TITLE District Operations Manager DATE 11-20-79

PERMIT NO. 43-033-30025 APPROVAL DATE 12/3/79

APPROVED BY _____ TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

5. LEASE DESIGNATION AND SERIAL NO.
 U-25455
 6. IF INDIAN, ALLOTTEE OR TRIBE NAME
 7. UNIT AGREEMENT NAME
 8. FARM OR LEASE NAME
 Otter Creek
 9. WELL NO.
 1-28
 10. FIELD AND POOL, OR WILDCAT
 Wildcat
 11. SEC., T., R., M. OR BLK. AND SURVEY OR AREA
 Section 28, T12N, R6E
 12. COUNTY OR PARISH
 Rich
 13. STATE
 Utah

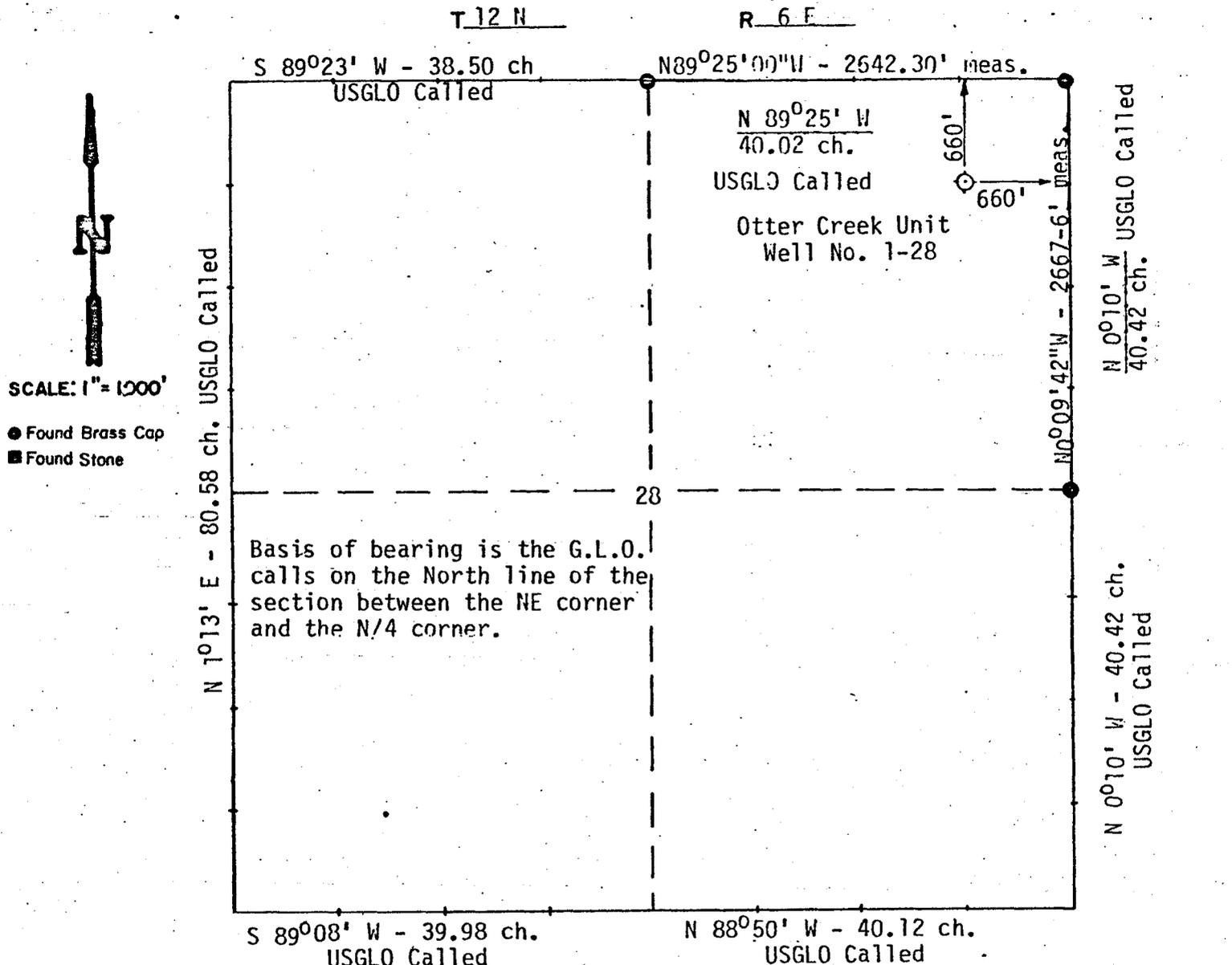
16. NO. OF ACRES IN LEASE
 2,000
 17. NO. OF ACRES ASSIGNED TO THIS WELL
 360
 19. PROPOSED DEPTH
 12,500' *Thykes*
 20. ROTARY OR CABLE TOOLS
 Rotary
 22. APPROX. DATE WORK WILL START*
 1-2-80



P.O. BOX 654
 GREEN RIVER, WYOMING
 82935
 TELEPHONE: (307) 875-3638

WILLIAM H. SMITH & ASSOCIATES
 SURVEYING CONSULTANTS

P.O. BOX 1300
 MOAB, UTAH
 84532
 TELEPHONE: (801) 259-6861



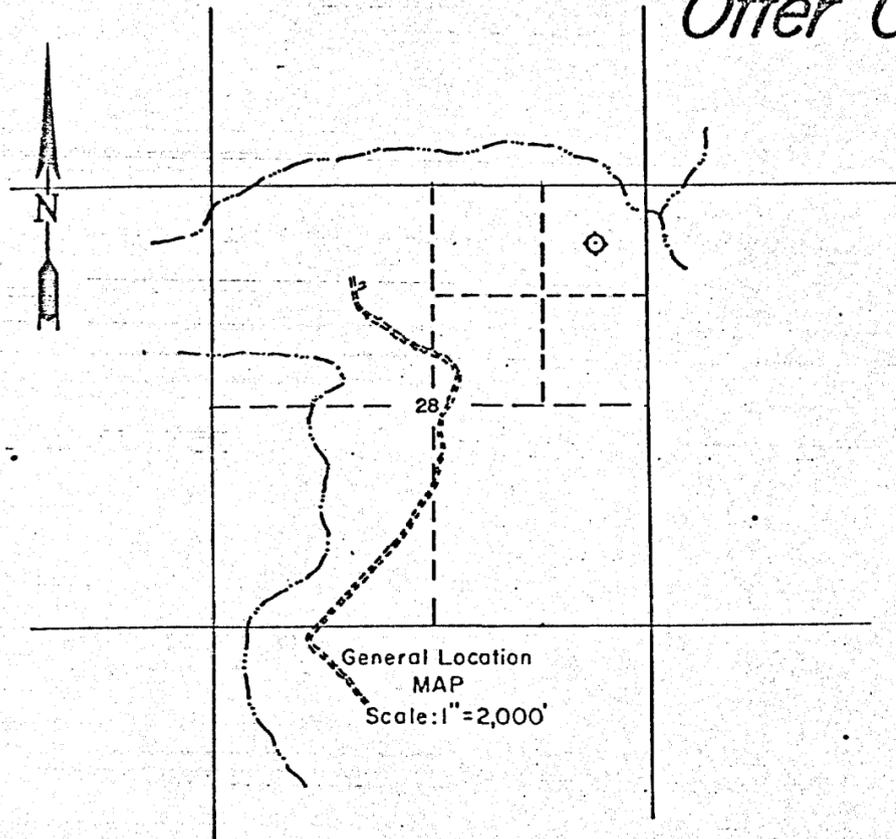
I, William H. Smith of Green River, Wyoming hereby certify that in accordance with a request from Walt West of Casper, Wyoming for Marathon Oil Company John I. Dolinar under my supervision and direction made a survey on the 6th day of November, 1979 for location and elevation of the Otter Creek Unit Well No. 1-28. As shown on the above map, the wellsite is in the NE/4, NE/4 of Section 28, Township 12 North, Range 6 East of the Salt Lake Base & Meridian Rich County, State of Utah. Elevation is 7044 feet. Ungraded ground Datum U.S.G.S. Control Point Mist

Reference Point	300 feet North	Rebar & Lath	Elevation Top of Lath = 7048.6'
Reference Point	300 feet South	Rebar & Lath	Elevation Top of Lath = 7031.5'
Reference Point	300 feet East	Rebar & Lath	Elevation Top of Lath = 7024.9'
Reference Point	300 feet West	Rebar & Lath	Elevation Top of Lath = 7071.6'

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

Otter Creek Unit Well No. 1-28

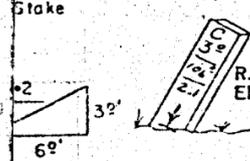
Located in the NE/4, NE/4 of Section 28 T12 N, R 6 E of the Salt Lake Base & Meridian, Rich County, Utah.



Legend

- ◊ Well Location
- Reference Point
- Slope Stake
- ⊖ Slope Stake at Reserve Pit
- ◊ --- 100'

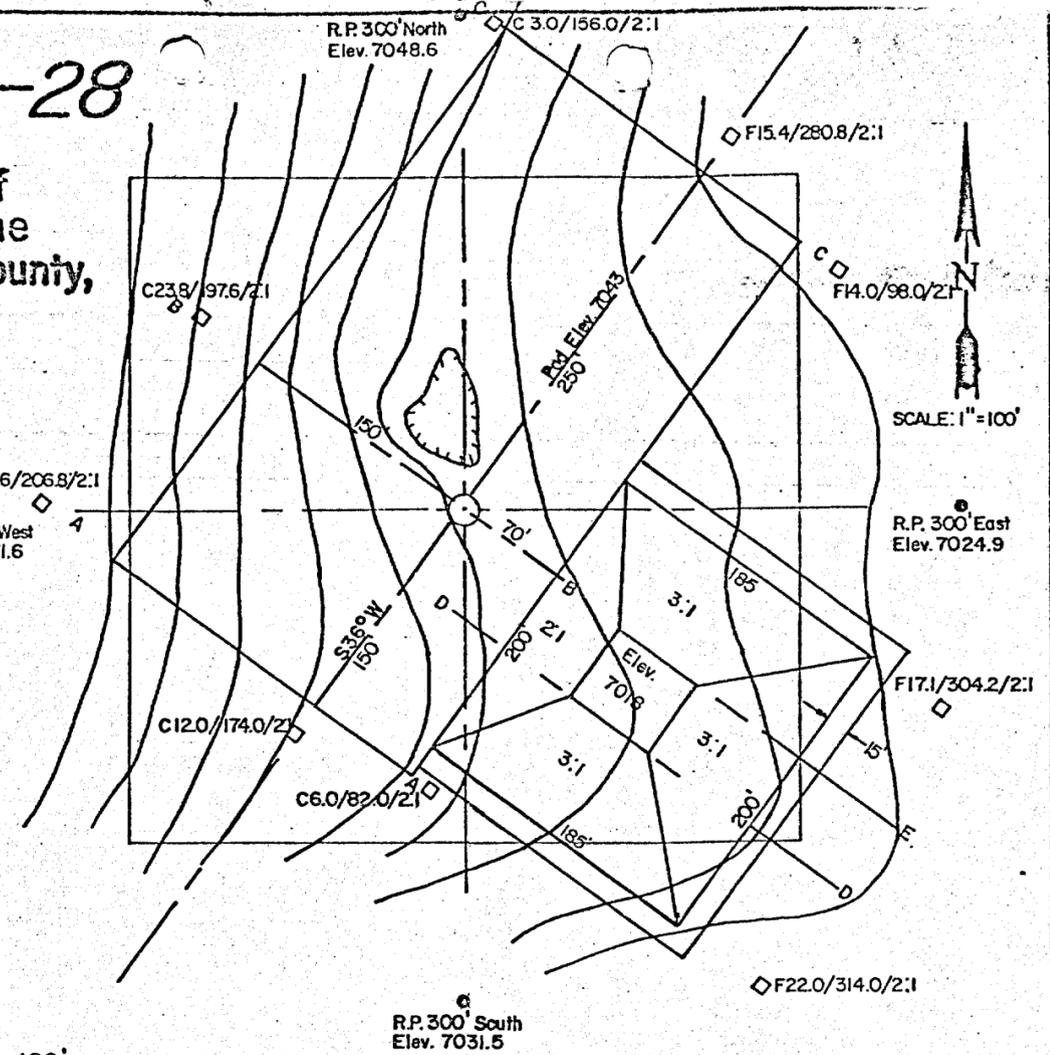
Typical Slope Stake



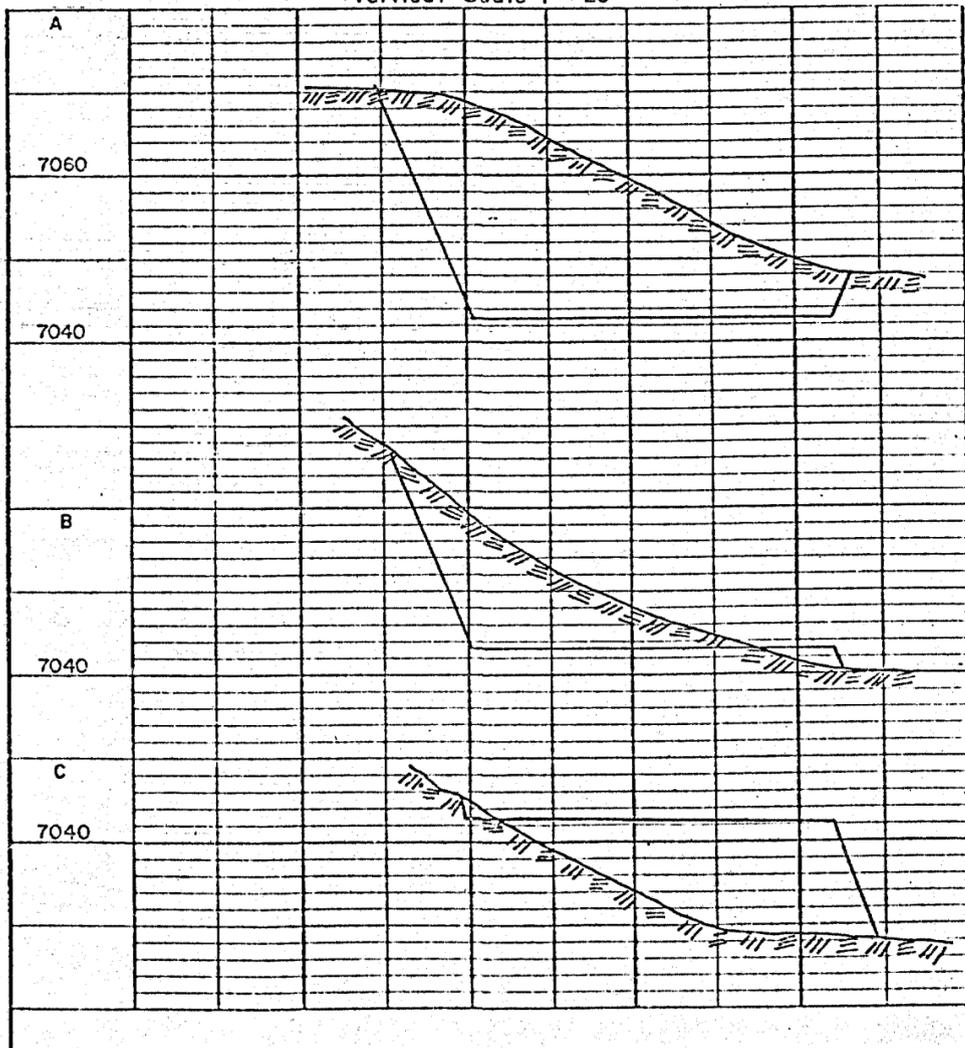
Total Yardage

Cut = 38,900 cu. yds.
Fill = 20,300 cu. yds.
Spoil pile = 13,900 cu. yds.
Top soil = 4,700 cu. yds.

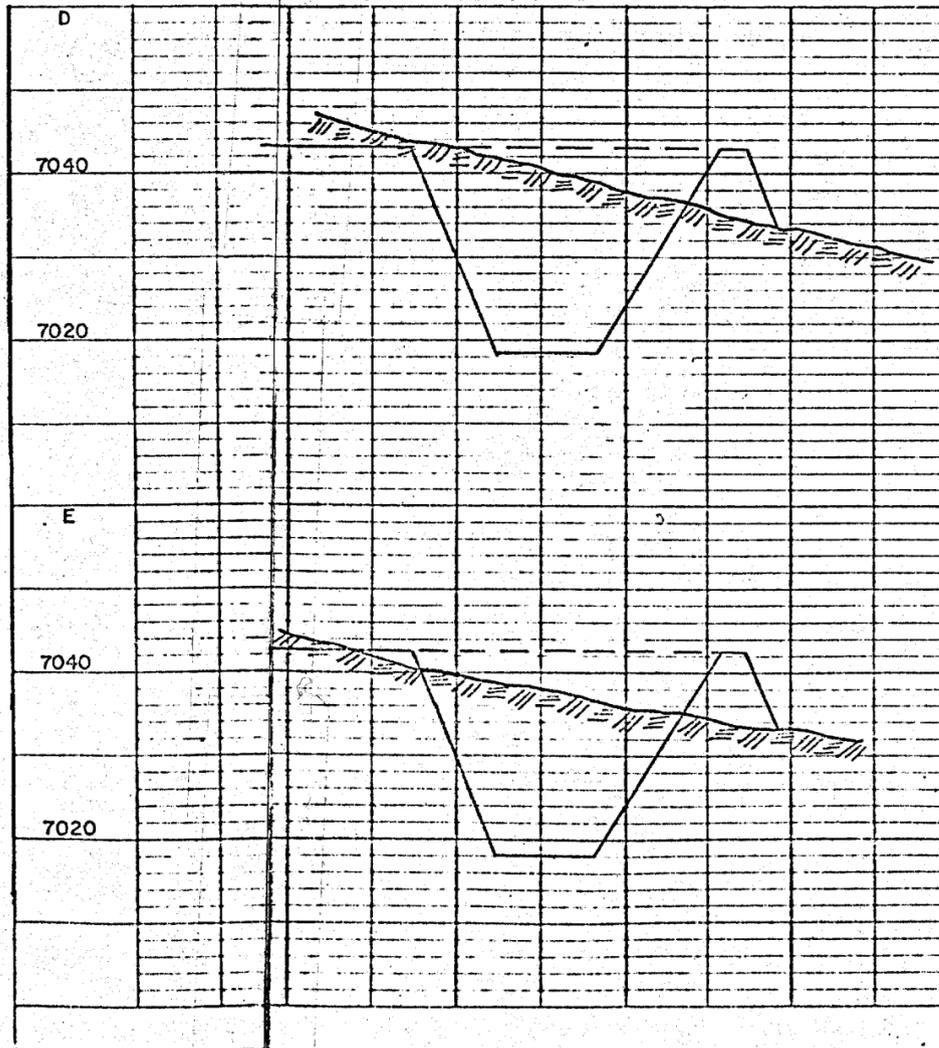
Reserve pit capacity =
89,000 Barrels at 23' depth



Cross Sections of Laydown Direction
Horizontal Scale 1" = 100'
Vertical Scale 1" = 20'



Cross Sections of Reserve Pit
Horizontal Scale 1" = 100'
Vertical Scale 1" = 20'



MAP

To
Accompany Application
for
PERMIT To DRILL
Applicant:

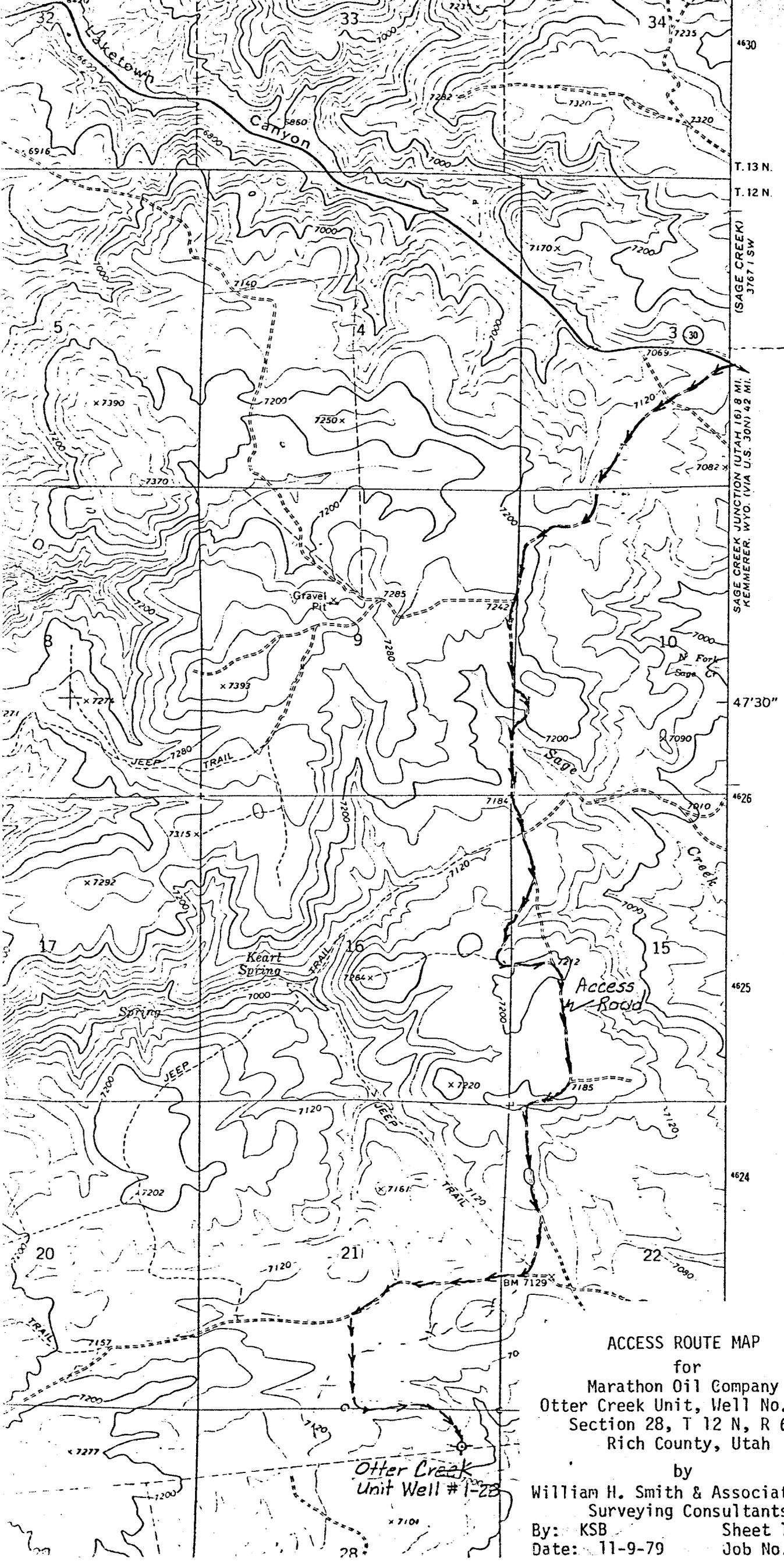
MARATHON OIL COMPANY
P.O. BOX 2659
CASPER, WYOMING 82601

Prepared
By
William H. Smith
and Associates
Surveying, Consultants

By RMC
Date: 11/9/79

Job No. 197-79

C



ACCESS ROUTE MAP
 for
 Marathon Oil Company
 Otter Creek Unit, Well No. 1-28
 Section 28, T 12 N, R 6 E
 Rich County, Utah
 by
 William H. Smith & Associates, P.C.
 Surveying Consultants
 By: KSB Sheet 1 of 1
 Date: 11-9-79 Job No. 197-79

Otter Creek
 Unit Well #1-28



GENERAL LOCATION MAP
 for
 Marathon Oil Company
 Otter Creek Unit, Well No. 1-28
 Section 28, T 12 N, R 6 E
 Rich County, Utah

by
 William H. Smith & Associates, P.C.
 Surveying Consultants
 By: KSB Sheet 1 of 1
 Date: 11-9-79 Job No. 197-79

MARATHON OIL COMPANY
DRILLING OPERATIONS PLAN

DATE: November 20, 1979

WELL NAME: Otter Creek #1-28

LOCATION: 660' FNL & 660' FEL, Sec. 28, T12N, R6E, Rich County, Utah

1. Geologic name of the surface formation: Wasatch - Tertiary
2. Estimated tops of important geological markers:

<u>Formation</u>	<u>Depth</u>	<u>Datum</u>
Wasatch	surface	
Ordovician	120'	(+6,922)
Pruess	1,270'	(+5,772)
Twin Creek	1,900'	(+5,122)
Nugget	4,900'	(+2,122)
Ankerah	6,000'	(+1,022)
Thaynes	7,400'	(- 378)
Woodside	9,300'	(-2,178)
Dinwoody	9,900'	(-2,878)
Phosphoria	10,250'	(-3,228)
Weber	10,850'	(-3,828)
Ankerah	10,550'	(-4,528)
Thaynes	11,900'	(-4,878)
T.D.	12,500'	

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>	
Thaynes	7,400'	(- 378)	gas
Dinwoody	9,900'	(-2,878)	gas (Primary Objective)
Phosphoria	10,250'	(-3,228)	gas
Weber	10,850'	(-3,828)	gas
Thaynes	11,900'	(-4,878)	gas

4. The Proposed Casing Program:

Casing Design

CASING STRING	HOLE SIZE	INTERVAL	SECTION LENGTH	SIZE (OD)	WEIGHT, GRADE AND JOINT	NEW OR USED	MUD WEIGHT	TENSION LOAD	SF _t	SF _c	SF _b
Surface	17-1/2"	2,500	1,100	13-3/8"	54.5# K-55 ST&C	New	10 lb/gal	122,500	4.47	1.98	3.28
			1,400		61# K-55 ST&C	New	10 lb/gal	62,500	10.1	1.18	3.28
Intermediate	12-1/4"	7,600	3,750	20-3/4"	55.5# N-80 SFJ-P	New	9 lb/gal	352,700	3.65	2.21	2.55
			2,250		51# N-80 *	New	9 lb/gal	144,600	8.91	1.15	2.02
			1,600		55.5# N-80 *	New	9 lb/gal	29,800	43.22	1.13	2.06
Production	9-1/2"	12,500	8,200	7-5/8"	33.7# L-80 LT&C	New	9 lb/gal	375,800	1.76	1.70	2.05
			4,300		39# L-80 LT&C	New	9 lb/gal	99,500	7.90	1.51	1.57

* Threads are Seal-Lock with special clearance couplings.

Casing Program:

Surface* Lead Slurry -- 1,100 sacks light cement containing 23.25# of salt per sack and 1/4# flocele per sack.
 Tail Slurry -- 785 sacks Class "G" containing 15.54# of salt per sack and 1/4# flocele per sack.

*If no salt sections are encountered while drilling the surface hole, salt will be replaced by the necessary amount of Calcium Chloride.

Intermediate Casing String

Cement with 315 sacks of Class "G" containing 10% salt and 1/4# Flocele per sack, plus retarder as needed for approximately 4 hours pumping time. Exact slurry volume to be determined from the caliper log.

Production Casing

Lead Slurry -- 325 sacks of light with 18% salt and 3/4% CFR-2 (yield = 2.07 cuft./sk. and slurry wt. = 12.9 ppg.).
 Tail Slurry -- 100 sacks of Class "G" with 18% salt and 3/4% CFR-2 (yield = 1.20 cuft./sk. and slurry wt. = 16.0 ppg.).
 Both slurries to be retarded for approximately 4 hours pumping time. Exact cement volumes to be determined from the caliper log.

5. Pressure Control Equipment:

One Annular BOP and Dual Ram-type BOP with pipe rams and blind rams. The Annular will have a minimum 3,000 psi working pressure and the remaining BOP equipment will have a 5,000 psi working pressure. The accumulator will be of sufficient size to close and open all components of the BOP stack without operating pump. Operation of all components to be checked daily.

The Blind Rams and Pipe Rams will be pressure tested to 2,000 psi (approximately 75% of Internal Yield of 13-3/8", 54.5#, K-55 casing) and the Annular Preventer will be tested to 1,500 psi prior to drilling under Surface Casing. Pressure test the Surface Casing string to 1,500 psi before drilling the float collar and shoe. After drilling five (5) feet of formation, the casing shoe will be tested to an Equivalent Mud Weight sufficient to control anticipated formation pressure prior to setting Intermediate Casing. It is expected that a 12.0 ppg. EMW test will be more than adequate.

The Blind Rams and Pipe Rams will be pressure tested to 4,400 psi (approximately 75% of Internal Yield of 10-3/4", 51#, N-80 casing) and the Annular Preventer will be tested to 1,500 psi prior to drilling under Intermediate Casing. Pressure test the Intermediate Casing string to 2,000 psi before drilling the float collar and shoe. After drilling five (5) feet of formation, the casing shoe will be tested to an Equivalent Mud Weight sufficient to control anticipated formation pressure while drilling below this string. It is expected that a 12.0 ppg EMW test will be more than adequate.

6. Drilling Mud Program:

From	To	Type Mud	Weight	Water Loss Control
Surface	2,500'	Brine*	9.0-9.5	As Required
2,500'	7,600'	Gel	8.5-9.5	Less than 15 cc's
7,600'	12,500' T.D.	Gel	8.5-9.5	Less than 10 cc's

*A brine water system or saturated salt system will be used to drill surface hole to 2,500' only if uncontrollable salt sections are encountered. Water loss will be maintained to combat sloughing shales.

A low solids, nondispersed mud will be used from 2,500' to T.D. The mud weight will be no higher than necessary to prevent influx of formation fluids. Barite will be used for weight if required. Lost circulation may be encountered in the Nugget and Ankerah formations. LCM will be available on location. H₂S may be encountered in the Phosphoria, and an H₂S scavenger and corrosion agent will be used in this interval. A maximum pressure of 5,460 psi is anticipated at TD which will require an 8.4 ppg mud.

7. Auxillary Equipment Required:

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

The mud system will include a desander, desilter, gas separator, degasser, trip tank, pit level monitor and flowline sensor. Both a remote adjustable choke and a manual choke will be used.

A kelly cock will be used, a TIW safety valve and inside BOP will be available on the rig floor.

A casinghead bore protector will be used after setting surface casing and intermediate casing to be in use during all drilling operations.

8. Testing, Logging, Coring and Fracing Program:

Drilling samples will be taken every 10' from surface to 2,500' and every 10' from 2,500' to T.D. A two man mud logging unit will be assigned to the well from surface to T.D.

A BHC-sonic and GR will be run from 2,500' to surface. A GR-FDC-CNL, SP-DIL, SP-DLL, Dipmeter-Cal, and Fracture Identification log will be run from 7,600' to 2,500' prior to running the 10-3/4" intermediate casing, and from T.D. to 7,600' prior to running the 7" production string.

A casing inspection log will be run in the 10-3/4" casing prior to drilling out.

Fracing Program

If required, this well will be fracture treated with a polyemulsion (2/3 condensate - 1/2 water) fluid. The volume will be dependent on reservoir height and permeability. (Typical jobs may vary from 20,000 gals to 200,000 gals). Temporary storage facilities for volatile fluids will be placed no closer than 125 feet from any well. They will also be located to take advantage of the prevailing wind by being down stream from any engines or other sources of ignition. Operating equipment and other sources of ignition will be kept 125 feet from the well and storage facilities during operation which utilize volatile fluids. Ditches and/or dikes will be used to divert catastrophic spillages of volatile fluids away from personnel, well head, and equipment. Prior to commencing operations requiring volatile fluids all employees and contractors on location will be informed of procedures and safety hazards through an on-site safety meeting.

See Diagram "E" for frac layout

9. Abnormal Conditions:

No abnormal pressures or temperatures are expected. A maximum temperature of 195° F and a maximum pressure of 5,460 psi is anticipated at T.D.

H₂S may be encountered in the Phosphoria formation. H₂S scavengers and corrosion agents will be used to control effluence at the surface. The proper breathing apparatus, warning signals, etc. will be used on the location, and the crews will be thoroughly trained in H₂S safety. Additional information concerning H₂S safety pre-planning is attached on the following pages entitled "Otter Creek 1-28 Hydrogen Sulfide Safety Plans".

10. Anticipated starting date and duration:

January 2, 1980, duration 180 days

Name

W. Thomas

Title

Drilling Superintendent

Date

11-28-79

Otter Creek 1-28
Hydrogen Sulfide Safety Plans

The drilling rig will be spotted so as the prevailing wind is blowing towards the pits. The mud loggers' and other trailers on location will be placed at safe distances from the B.O.P. stack, (a minimum of 125 feet).

Radio or telephone communications will be available at the rig.

The following equipment will be on location prior to spudding:

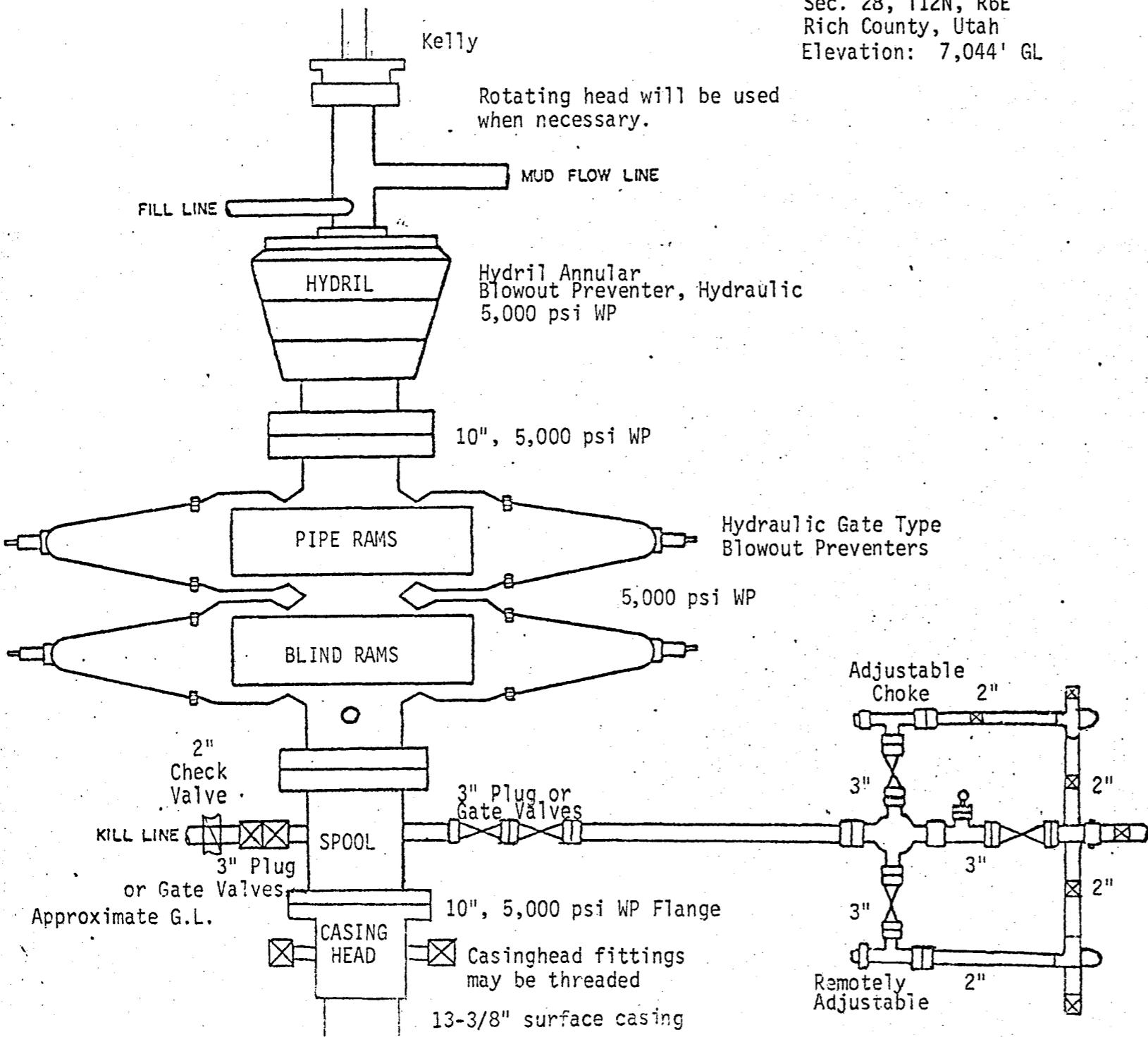
1. Siren (Explosion Proof)
2. 3 fixed gas monitors
3. Flashing warning light (Explosion Proof)
4. 12 - 40 cubic feet, self contained breathing apparatus.

The following contingency plan will be put into effect at approximately 9,250', or 1,000' above anticipated entry of the Phosphoria:

1. Sufficient 40 cubic feet self-contained breathing apparatus will be available and placed at critical locations to protect operating personnel on location.
2. Dual monitor complete with visual and audible alarm system. (One monitor will be located at the bell nipple and the other at the shale shaker.)
3. Three wind socks with streamers.
4. Marked locations of designated safe areas and escape routes.
5. Warning signs will be located no closer than 1/2 mile from the drilling site.
6. Personnel will be trained in the use of all safety equipment. (Names and dates of training will be posted on location.)
7. An approved contingency plan will be available and posted on location prior to starting operations.
8. Only authorized personnel will be allowed on drill site.
9. Initial contact will be made with local Sheriff's office, District Highway Patrol office, and area medical personnel.
10. Two bug fans, blowing opposite designated safe areas.
11. Safety trailer with 15-300 C.F. cylinder cascade air supply system.
12. 1,000' low pressure air line hose with quick connects.
13. Two low pressure manifolds.
14. Eight air line masks with emergency escape cylinders.

15. Six 30-minute self-contained breathing apparatus.
16. First aid kit (36 unit).
17. Oxygen powered resuscitator with cylinder.
18. Flare gun with shells.
19. Gas detector (pump type).

Marathon Oil Company
 Otter Creek #1-28
 660' FNL & 660' FEL
 Sec. 28, T12N, R6E
 Rich County, Utah
 Elevation: 7,044' GL



1. Blowout preventers, master valve, plug valve and all fittings must be in good condition. Use new API Sealing Rings.
2. All fittings (gates, valves, etc.) to have pressure rating equivalent to preventers. Valves to be flanged and at least 2" unless otherwise specified. Valves next to BCP to be 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 valve should be as great as I.D. of tool joints of drill pipe.
5. Kelly safety valve installed, to have 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 w/controls on the rig floor and one or more remote controls near steps or at accumulator.
8. Fillup line shall be tied to drilling nipple with connection below and approximately 90° to the flow line.
9. Gauge will be installed for testing but removed while drilling.
10. If spool is not used, the choke line can be connected to BOP side outlet, below bottom rams.
11. Casinghead and casinghead fittings to be furnished by Marathon Oil Company.
12. Chokes will be adjustable.
13. One side of casinghead may be bull plugged.

MARATHON OIL COMPANY
SURFACE USE & OPERATIONS PLAN

DATE: November 20, 1979

WELL NAME: Otter Creek #1-28

LOCATION: 660' FNL & 660' FEL, Sec. 28, T12N, R6E, Rich County, Utah

#1 Existing Roads:

- A. Proposed well site as staked. (Actual staking should include two each 200-foot directional reference stakes).

See attached survey plat

- B. Route and distance from nearest town and locatable reference point to where well access route leaves main road.
From Laketown, Utah, travel southeast on Utah Highway 16 for 6-1/2 miles. Turn right and travel south on improved road for 3-1/2 miles to the second fork in Section 22.

See map "A" color coded Red

- C. Access road(s) to location color-coded or labeled.

See map "A" color coded Green

- D. If exploratory well, all existing roads within a 3-mile radius (including type of surface, conditions, etc.).
All existing roads within a 3 mile radius is country roads and improved trails, surface fair to poor condition.

- 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.

Bladed and graveled where needed

#2 Planned Access Roads:

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

- | | |
|--|---------------------|
| (1) Width | 16' |
| (2) Maximum grades | 1' to 3' |
| (3) Turnouts | None required |
| (4) Drainage design | Ditched and crowned |
| (5) Location and size of culverts and brief description of any major cuts and fills. | |

No culverts are anticipated

- (6) Surfacing material

Gravel

- (7) Necessary gates, cattleguards, or fence cuts.

No gates or cattle guards will be required. There will be a fence cut to the South of the center stake. Fence will be braced before cut.

- (8) (New or reconstructed roads are to be center-line flagged at time of location staking).

All new access road will be center lined, flagged, and walked 40' on each side by Archeologist.

See map "A" color coded Green

- 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 top soil 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.
A water supply well will be drilled on the well site.
Necessary permitting will be obtained from Division of Water Rights, State of Utah.
- B. State method of transporting water, and show any roads or pipelines needed.
None
- 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).

Water supply well will be drilled.

#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 needed 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) Frac 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 burned or buried).

There will be a 10' x 10' burn pit on the drill site, and it 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 buried.

#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 reserve pit will be sealed with bentonite before filling.

#10 Plans for Restoration of Surface:

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 backfilled as soon as it is dry.

(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 BLM 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.
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 spud date.

#11 Other Information:

General Description of:

- (1) Topography, soil characteristics, geologic features, flora and fauna. Topo is sagebrush covered hills, occasionally dissected by drainage features.
Flora is sagebrush, wheat grass and short stubby native grasses. Fauna is deer, rabbits, fox, cattle and sheep.
- (2) Other surface use activities and surface ownership of all involved lands.
The drill site and access road are owned by the U.S. Government. There is a sinkhole on the location. This hole will be lined with a plastic fabric before fillin, and restored to normal in the event of a dry hole.
- (3) Proximity of water, occupied dwellings, archeological, historical or cultural sites.
There is no water or occupied dwellings in the area. Archeological services are to be performed by Dr. Richard Holmer and his staff, University of Utah.

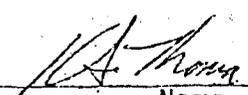
#12 Lessee's or Operator's Representative:

Marathon Oil Company
P.O. Box 2659
Casper, WY 82602
(307) 235-2511 Ext. 524

#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.

11-28-79
Date

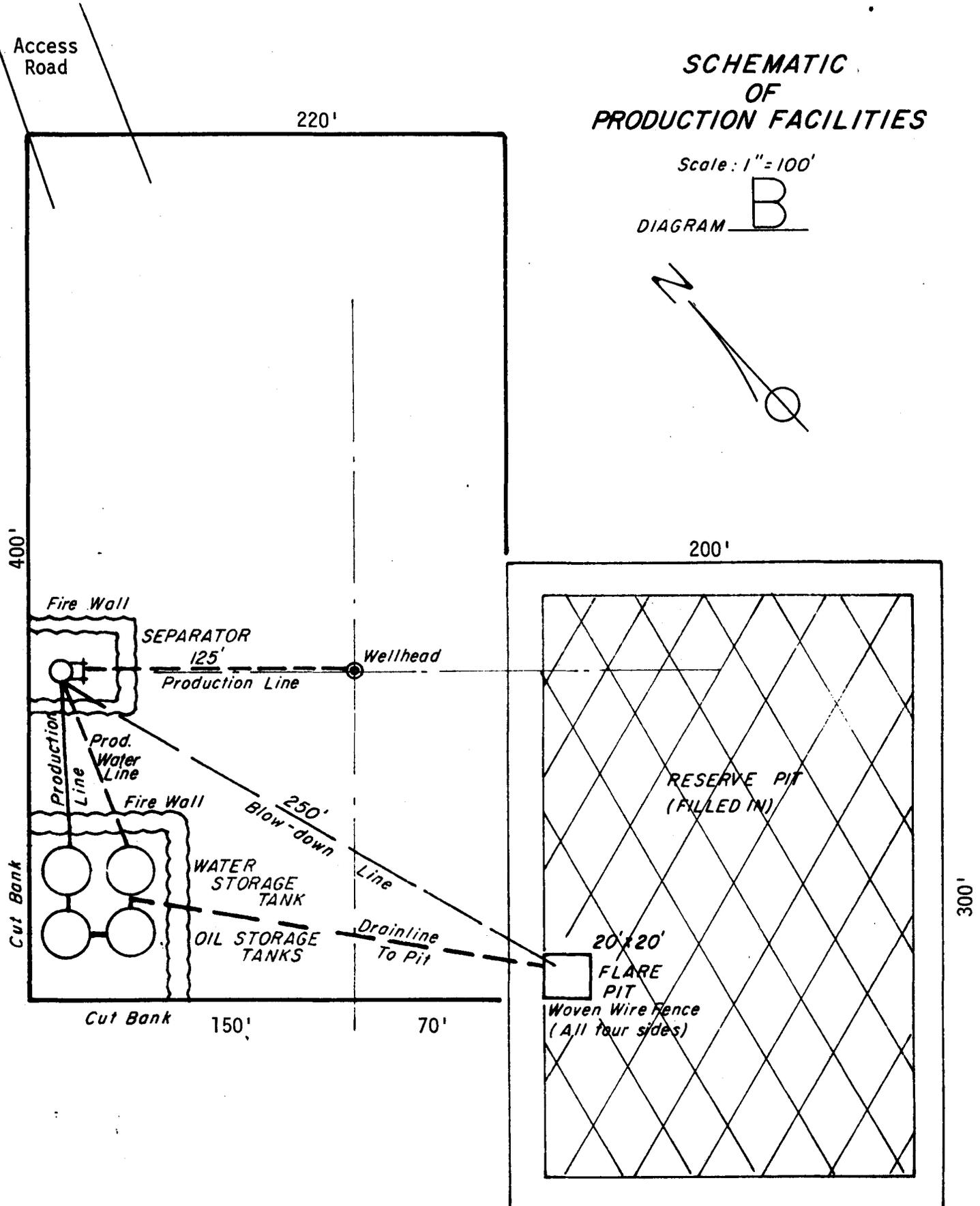
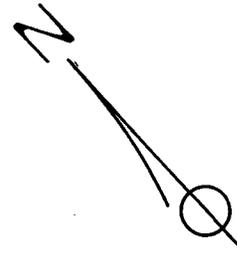

Name

Drilling Superintendent
Title

SCHEMATIC OF PRODUCTION FACILITIES

Scale: 1" = 100'

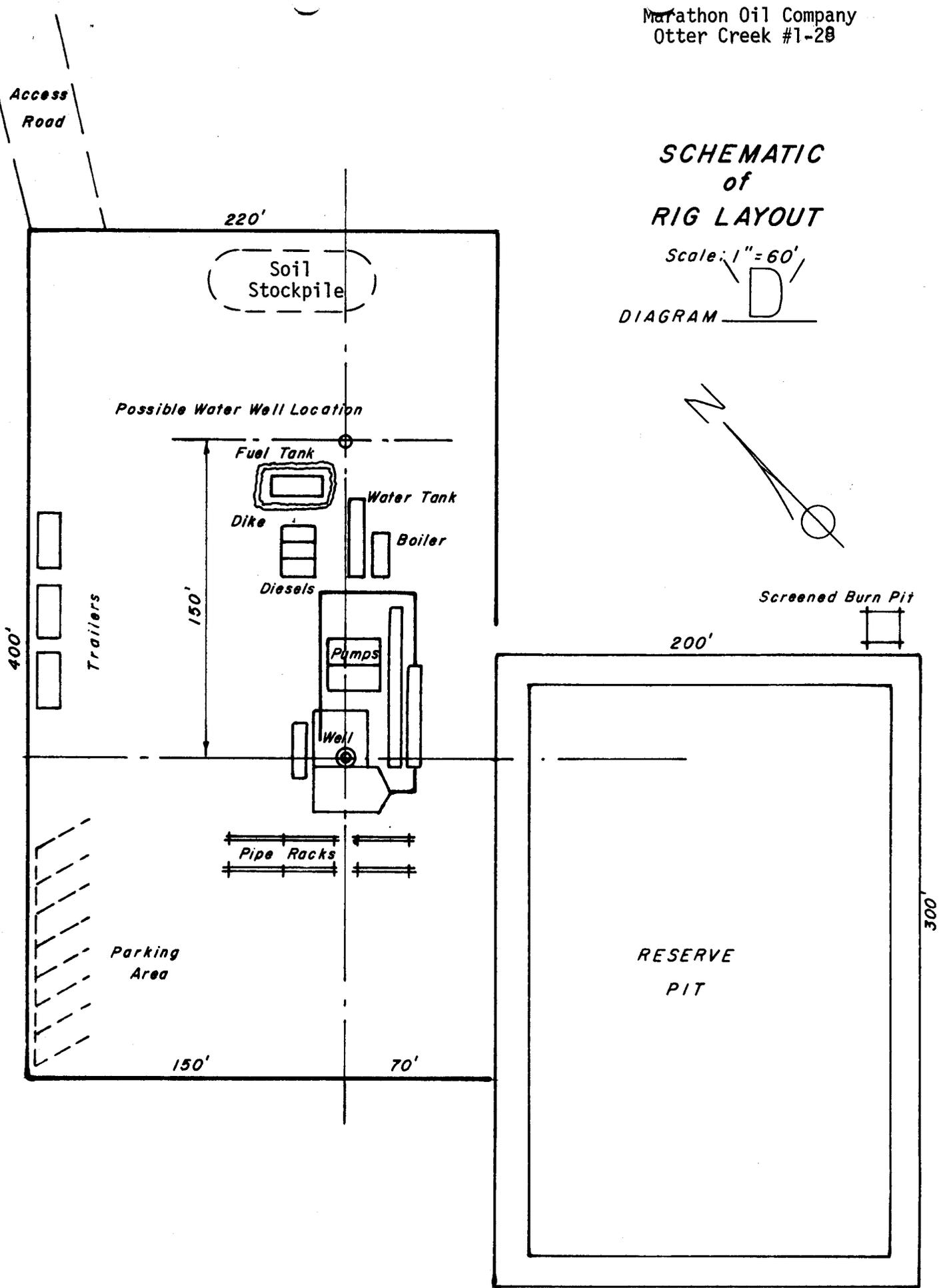
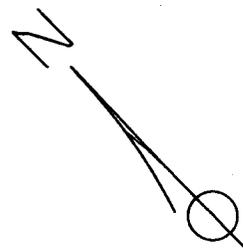
DIAGRAM B



SCHEMATIC of RIG LAYOUT

Scale: 1" = 60'

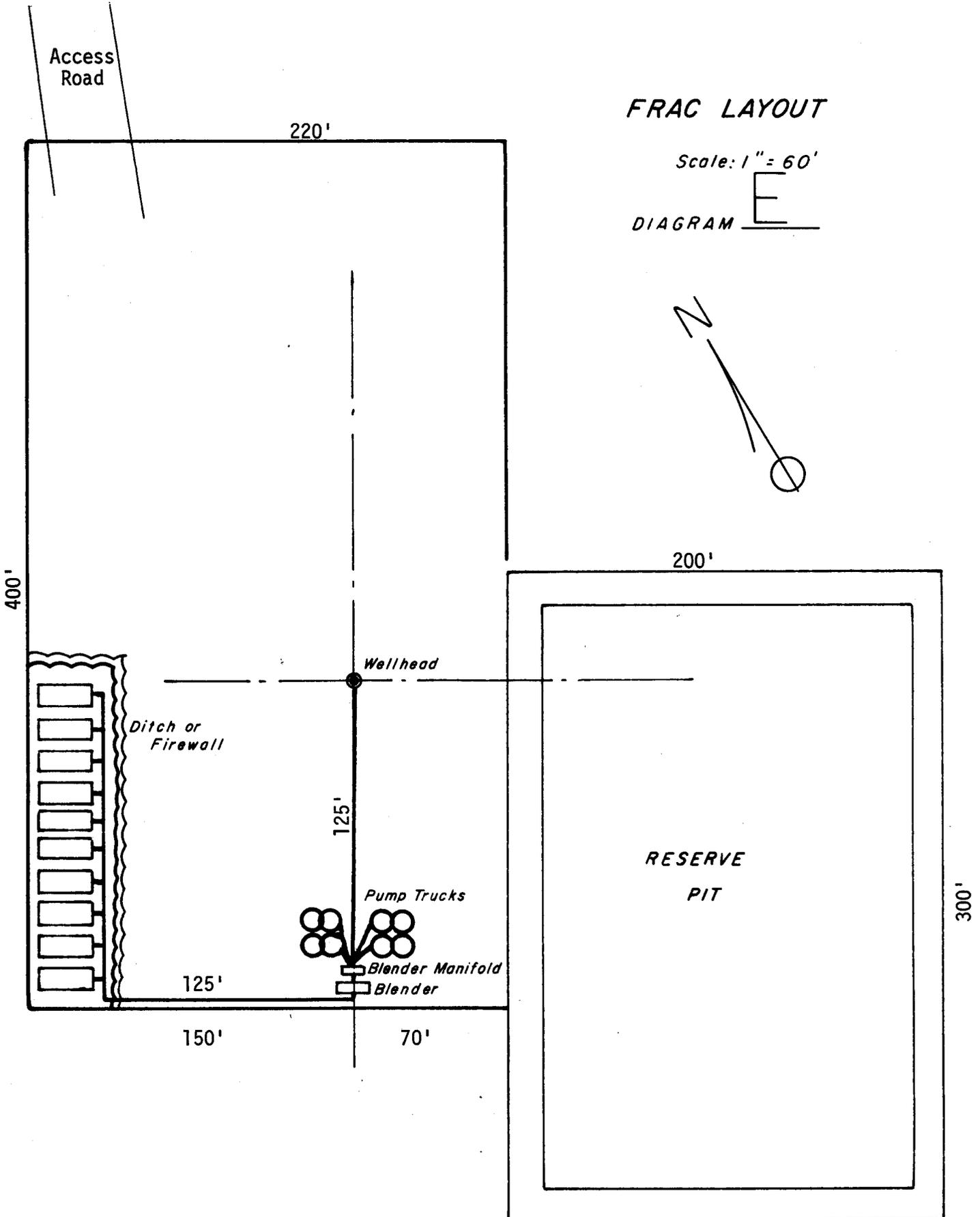
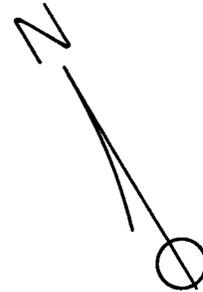
DIAGRAM



FRAC LAYOUT

Scale: 1" = 60'

DIAGRAM 





P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/265-7693

November 26, 1979

Mr. F. M. Hammer
Chief Petroleum Engineer
State Of Utah
Division of Oil, Gas & Minerals
1588 West North Temple
Salt Lake City, Utah 84116

Re: Otter Creek #1-28
660' FNL & 660' FEL
Sec. 28, T12N, R6E
Rich County, Utah

Dear Mr. Hammer:

Submitted for your consideration is a list of equipment and procedures proposed for the monitoring and control of any H₂S gas encountered during the drilling of the above referenced well.

The drilling rig will be spotted so as the prevailing wind is blowing towards the pits. The mud loggers and other trailers on location will be placed at safe distances from the B.O.P. stack, (a minimum of 125 feet). Radio or telephone communications will be available at the rig.

The following equipment will be on location prior to spudding:

1. Siren (Explosion Proof)
2. 3 fixed gas monitors
3. Flashing warning light (Explosion Proof)
4. 12 - 40 cubic feet, self contained breathing apparatus.

The following contingency plan will be put into effect at approximately 9,250', or 1,000' above anticipated entry of the Phosphoria:

1. Sufficient 40 cubic feet self-contained breathing apparatus will be available and placed at critical locations to protect operating personnel on location.
2. Dual monitor complete with visual and audible alarm system. (One Monitor will be located at the bell nipple and the other at the shale shaker.)
3. Three wind socks will streamers.
4. Marked locations of designated safe areas and escape routes.
5. Warning signs will be located no closer than 1/2 mile from the drilling site.
6. Personnel will be trained in the use of all safety equipment. (Names and dates of training will be posted on location.)
7. An approved contingency plan will be available and posted on location prior to starting operations.

Mr. F. M. Hamner

8. Only authorized personnel will be allowed on drill site.
9. Initial contact will be made with local Sheriff's office, District Highway Patrol office, and area medical personnel.
10. Two bug fans, flowing opposite designated safe areas.
11. Safety trailer with 15-300 C.F. cylinder cascade air supply system.
12. 1,000' low pressure air line hose with quick connects.
13. Two low pressure manifolds.
14. Eight air line masks with emergency escape cylinders.
15. Six 30-minute self-contained breathing apparatus.
16. First aid kit (36 unit).
17. Oxygen powered resuscitator with cylinder.
18. Flare gun with shells.
19. Gas detector (pump type).

If you require any information, please do not hesitate to call me.

Very truly yours,

MARATHON OIL COMPANY



K. A. Thoma
Drilling Superintendent

KAT/WW:eh
Enclosure

cc: Mr. Ed Gynn
District Engineer
U.S.G.S.
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138

Mr. R. F. Bolender
Marathon Oil Company
P. O. Box 120
Casper, Wyoming 82602

Mr. George Diwachak
Environmental Scientist
U.S.G.S.
8426 Federal Building
125 South State Street
Salt Lake City, Utah 84138

** FILE NOTATIONS **

DATE: Dec. 3, 1979

Operator: Marathon Oil Company

Well No: Otter Creek #1-28

Location: Sec. 28 T. 12N R. 6E County: Rich

File Prepared:

Entered on N.I.D.:

Card Indexed:

Completion Sheet:

API Number 43-033-30025

CHECKED BY:

Geological Engineer: _____

Petroleum Engineer: _____

Director: A

APPROVAL LETTER:

Bond Required:

Survey Plat Required:

Order No. _____

O.K. Rule C-3

#1

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

Lease Designation Ed

Plotted on Map

Approval Letter Written

Wm

hl
PI

December 3, 1979

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

Re: Well No. Otter Creek #1-28
Sec. 28, T. 12N, R. 6E.,
Rich County, Utah

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

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

MICHAEL T. MINDER
Geological 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 43-033-30025.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Geological Engineer

/b:tm

cc: USGS

November 20, 1980

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

RE: Well No. Otter Creek #1-28
Sec. 28, T. 12N, R. 6E,
Rich County, Utah

Gentlemen:

In reference to above mentioned well (s), 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 (these wells), please notify this Division. If spudding or any other activity has taken place, please send necessary forms. If you plan on drilling 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

Debbie Beauregard
DEBBIE BEAUREGARD
CLERK TYPIST

Casper Division
Production, U.S. & Canada



P.O. Box 2659
Casper, Wyoming 82602
Telephone 307/235-2511

November 26, 1980

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

RE: Otter Creek #1-28
Sec. 28, T12N, R6E
Rich County, Utah

Dear Ms. Debbie Beauregard:

In regard to your letter of November 20, 1980, requesting the status of the above referred well, no location has been made. The drilling of this well will depend on the outcome of our Otter Creek #1-21, which is to the north of this site. We would like to keep all of our permitting in force at this time on Otter Creek #1-28.

Thank you for your time and attention on this matter.

Very truly yours,

Dale T. Caddy
by J. Friend
Dale T. Caddy
District Operations Manager

DTC/WW/kr

RECEIVED

NOV 23 1980

DIVISION OF
OIL, GAS & MINING

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

SUNDRY NOTICES AND REPORTS ON WELLS
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 660' FNL & 660' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:	SUBSEQUENT REPORT OF:
TEST WATER SHUT-OFF <input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING <input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE <input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES <input type="checkbox"/>	<input type="checkbox"/>
ABANDON* <input type="checkbox"/>	<input type="checkbox"/>
(other) <u>Cancellation of NTL-6</u>	

5. LEASE
U-25455

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Otter Creek

9. WELL NO.
1-28

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 28, T12N, R6E

12. COUNTY OR PARISH
Rich

13. STATE
Utah

14. API NO.
None

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7,044'

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

We wish to cancel our Application for permit to drill the above captioned well. The outcome of our well, Otter Creek #1-21, which is to the north of this site and valuation of structure, necessitates this decision.

Thank you for your time and effort on this matter.

RECEIVED
APR 22 1981

Subsurface Safety Valve: Manu. and Type _____ DIVISION OF OIL, GAS & MINING Ft.

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Gal Caddy TITLE Operations Manager DATE 4-20-81

(This space for Federal or State office use)

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2659; Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,313' FNL & 1,441' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Summary of Plugging</u>			

5. LEASE
U-25453

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Otter Creek

9. WELL NO.
1-21

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 21, T12N, R6E

12. COUNTY OR PARISH
Rich

13. STATE
Utah

14. API NO.
43-033-30025

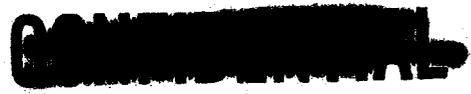
15. ELEVATIONS (SHOW DF, KDB, AND WD)
7,119' GL, 7,149' KB

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Otter Creek #1-21 was plugged on April 10th & 11th, 1981. The first plug was set from 3,300' to 3,250' using 26 sacks of Class "G" cement with .1% H-R5 and .75% CFR-2. The second plug was placed from 2,594' to 2,394' using 104 sacks of the same cement as above. The surface plug was set to 60' using 30 sacks of the same cement as above.

The proper Dry hole marker was scribed-welded and placed.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District
SIGNED Dale Cobby TITLE Operations Manager DATE 5-20-81

(This space for Federal or State office use)

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Otter Creek #1-21 (cont)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

CONFIDENTIAL

DTC - 5-18-81

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-25453

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Otter Creek

9. WELL NO.

1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 21, T12N, R6E

12. COUNTY OR PARISH

Rich

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2659; Casper, WY 82602

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

At surface 1,313' FNL & 1,441' FEL

At top prod. interval reported below

At total depth

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO. DATE ISSUED

43-033-30025 | Sept. 20, 1979

15. DATE SPUDDED 4-8-80 16. DATE T.D. REACHED 3-26-81 17. DATE COMPL. (Ready to prod.) 4-11-81 PA - 5:20-81 CW 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 7,119' GL, 7,149' KB 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 12,299' 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY - 24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NONE ABANDONED 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN BHC, SGR, CAL, FDC, DLL, DIP METER, CYBER DIP 27. WAS WELL CORED NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65#	1,333.79'	17-1/2"	680 sacks	NONE
13-3/8"	61#	2,494.01'	17-1/2"	750 sacks	NONE
10-3/4"	55.5#	10,306.00'	12-1/4"	2,000 sacks	NONE
ABANDONED IN PLACE					

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		NONE				NONE	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
NONE		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		NONE	

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS
ALL INFORMATION ABOUT THIS WELL IS TO BE HELD CONFIDENTIAL UNTIL [REDACTED]

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

SIGNED Dale Caddy TITLE District Operations Manager DATE 5-14-81

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Otter Creek #1-21

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.	
Thaynes	8,671'	8,746'	DST #1 - Misrun	
"	8,641'	8,746'	DST #2 - Misrun	
Nugget	10,705'	10,835'	DST #3 - IHP 5435	
			IF 610 30 min.	
			ISI 4170 60 min.	
			FF 946 120 min.	
			FSI 4219 260 min.	
			FHP 5401	
			Recovered: 1000' water cushion,	
			955' salt water.	
Twin Creek	4,424'	4,650'	DST #4 IHP 1988	
			IF 109 30 min.	
			ISI 1528 60 min.	
			FF 276 120 min.	
			FSI 1530 240 min.	
			FHP 1988	
			Recovered: 1400' water cut mud	
			sc: 2100 cc water	

Continued on second page.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Twin Creek	1,662'	
Nugget	5,197'	
Ankareh	6,694'	
Thaynes	8,645'	
Thrust	8,830'	
Nugget	8,830'	
Ankareh	10,220'	
Thrust	10,700'	
Nugget	10,700'	
TD:	12,299'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
1313' FNL & 1441' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-25453

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Otter Creek

9. WELL NO.
1-21

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 21, T12N, R6E

12. COUNTY OR PARISH
Rich

13. STATE
Utah

14. API NO.
43-033-30025

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7119' GL 7149' KB

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

PULL OR ALTER CASING

MULTIPLE COMPLETE

CHANGE ZONES

ABANDON*

(other) Change in projected TD

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
 DATE: 12-16-80
 BY: M. J. [Signature]

(NOTE: Report results of multiple completion or zone change.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

New proposed T.D. 17,000'. 10 3/4" Csg set and cemented @ 10,306'. The well @ 10,306' is presently 146.4' N and 331.5' East of surface location. The last 80' drilled the direction of bottom hole turned from East to West. We plan to drill to an approx. kick off point of 10,450'. Then run Dyna-Drill and turn hole back to East. Our present bottom hole target is 1,500' East of surface location at 17,000' T.D.

The above proposal was discussed by phone with Mr. Cleon B. Feight, Director, State of Utah, Division of Oil, Gas and Mining, and he gave his verbal sanction to the proposal to Walt West of MOC, 11-26-80.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District _____
 SIGNED Dale T Caddy TITLE Operations Manager DATE November 26, 1980
 (This space for Federal or State office use)

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

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

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2659; Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
AT SURFACE: 1,313' FNL & 1,441' FEL
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-25453

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Otter Creek

9. WELL NO.
1-21

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 21, T12N, R6E

12. COUNTY OR PARISH
Rich

13. STATE
Utah

14. API NO.
43-033-30025

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7,119' GL, 7,149' KB

REQUEST FOR APPROVAL TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF	<input type="checkbox"/>		<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>		<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>		<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>		<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>		<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>		<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>		<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>		<input type="checkbox"/>
(other) <u>Summary of Plugging</u>			

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Otter Creek #1-21 was plugged on April 10th & 11th, 1981. The first plug was set from 3,300' to 3,250' using 26 sacks of Class "G" cement with .1% H-R5 and .75% CFR-2. The second plug was placed from 2,594' to 2,394' using 104 sacks of the same cement as above. The surface plug was set to 60' using 30 sacks of the same cement as above.

The proper Dry hole marker was scribed-welded and placed.



Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Dale Cobby TITLE Operations Manager DATE 5-20-81

(This space for Federal or State office use)

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

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Otter Creek #1-21 (cont)

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.

38.

GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH

CONFIDENTIAL

DTC - 5-18-81

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other instructions on reverse side)

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

5. LEASE DESIGNATION AND SERIAL NO.

U-25453

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Otter Creek

9. WELL NO.

1-21

10. FIELD AND POOL, OR WILDCAT

Wildcat

11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA

Sec. 21, T12N, R6E

12. COUNTY OR PARISH

Rich

13. STATE

Utah

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

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

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

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P. O. Box 2659; Casper, WY 82602

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

At surface 1,313' FNL & 1,441' FEL

At top prod. interval reported below

At total depth

DIVISION OF
OIL, GAS & MINING

14. PERMIT NO. DATE ISSUED

43-033-30025 | Sept. 20, 1979

15. DATE SPUDDED 4-8-80 16. DATE T.D. REACHED 3-26-81 17. DATE COMPL. (Ready to prod.) 4-11-81 PA - 5:20-81 CW 18. ELEVATIONS (DF, REB, RT, GR, ETC.)* 7,119' GL, 7,149' KB 19. ELEV. CASINGHEAD -

20. TOTAL DEPTH, MD & TVD 12,299' 21. PLUG, BACK T.D., MD & TVD - 22. IF MULTIPLE COMPL., HOW MANY* - 23. INTERVALS DRILLED BY - ROTARY TOOLS 0'-12,299' CABLE TOOLS -

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* NONE ABANDONED 25. WAS DIRECTIONAL SURVEY MADE NO

26. TYPE ELECTRIC AND OTHER LOGS RUN BHC, SGR, CAL, FDC, DLL, DIP METER, CYBER DIP 27. WAS WELL CORED NO

CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
16"	65#	1,333.79'	17-1/2"	680 sacks	NONE
13-3/8"	61#	2,494.01'	17-1/2"	750 sacks	NONE
10-3/4"	55.5#	10,306.00'	12-1/4"	2,000 sacks	NONE
ABANDONED IN PLACE					

29. LINER RECORD					30. TUBING RECORD		
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
		NONE				NONE	

31. PERFORATION RECORD (Interval, size and number)		32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.	
NONE		DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
		NONE	

33.* PRODUCTION							
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)				WELL STATUS (Producing or shut-in)	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)	

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) TEST WITNESSED BY

35. LIST OF ATTACHMENTS
ALL INFORMATION ABOUT THIS WELL IS TO BE HELD CONFIDENTIAL UNTIL [REDACTED]

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

SIGNED Dale Caddy TITLE District Operations Manager DATE 5-14-81

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

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

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments.

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Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

Otter Creek #1-21

37. SUMMARY OF POROUS ZONES:

SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES

FORMATION	TOP	BOTTOM	DESCRIPTION, CONTENTS, ETC.
Thaynes	8,671'	8,746'	DST #1 - Misrun
"	8,641'	8,746'	DST #2 - Misrun
Nugget	10,705'	10,835'	DST #3 - IHP 5435 IF 610 30 min. ISI 4170 60 min. FF 946 120 min. FSI 4219 260 min. FHP 5401 <u>Recovered:</u> 1000' water cushion, 955' salt water.
Twin Creek	4,424'	4,650'	DST #4 IHP 1988 IF 109 30 min. ISI 1528 60 min. FF 276 120 min. FSI 1530 240 min. FHP 1988 <u>Recovered:</u> 1400' water cut mud sc: 2100 cc water

Continued on second page.

38. GEOLOGIC MARKERS

NAME	TOP	
	MEAS. DEPTH	TRUE VERT. DEPTH
Twin Creek	1,662'	
Nugget	5,197'	
Ankareh	6,694'	
Thaynes	8,645'	
Thrust	8,830'	
Nugget	8,830'	
Ankareh	10,220'	
Thrust	10,700'	
Nugget	10,700'	
TD:	12,299'	

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY OIL, GAS & MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use Form 9-331-C for such proposals.)

1. oil well gas well other

2. NAME OF OPERATOR
Marathon Oil Company

3. ADDRESS OF OPERATOR
P.O. Box 2659, Casper, WY 82602

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)
1313' FNL & 1441' FEL
AT SURFACE:
AT TOP PROD. INTERVAL:
AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

5. LEASE
U-25453

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME
Otter Creek

9. WELL NO.
1-21

10. FIELD OR WILDCAT NAME
Wildcat

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
Sec. 21, T12N, R6E

12. COUNTY OR PARISH
Rich

13. STATE
Utah

14. API NO.
43-033-30025

15. ELEVATIONS (SHOW DF, KDB, AND WD)
7119' GL 7149' KB

REQUEST FOR APPROVAL TO: SUBSEQUENT REPORT OF:

TEST WATER SHUT-OFF	<input type="checkbox"/>	<input type="checkbox"/>
FRACTURE TREAT	<input type="checkbox"/>	<input type="checkbox"/>
SHOOT OR ACIDIZE	<input type="checkbox"/>	<input type="checkbox"/>
REPAIR WELL	<input type="checkbox"/>	<input type="checkbox"/>
PULL OR ALTER CASING	<input type="checkbox"/>	<input type="checkbox"/>
MULTIPLE COMPLETE	<input type="checkbox"/>	<input type="checkbox"/>
CHANGE ZONES	<input type="checkbox"/>	<input type="checkbox"/>
ABANDON*	<input type="checkbox"/>	<input type="checkbox"/>
(other) Change in projected TD	<input type="checkbox"/>	<input type="checkbox"/>

APPROVED BY THE DIVISION OF OIL, GAS, AND MINING
DATE: 12-16-80
BY: M. J. [Signature]

(NOTE: Report results of multiple completion or zone change.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

New proposed T.D. 17,000'. 10 3/4" Csg set and cemented @ 10,306'. The well @ 10,306' is presently 146.4' N and 331.5' East of surface location. The last 80' drilled the direction of bottom hole turned from East to West. We plan to drill to an approx. kick off point of 10,450'. Then run Dyna-Drill and turn hole back to East. Our present bottom hole target is 1,500' East of surface location at 17,000' T.D.

The above proposal was discussed by phone with Mr. Cleon B. Feight, Director, State of Utah, Division of Oil, Gas and Mining, and he gave his verbal sanction to the proposal to Walt West of MOC, 11-26-80.

Subsurface Safety Valve: Manu. and Type _____ Set @ _____ Ft.

18. I hereby certify that the foregoing is true and correct District _____
SIGNED Dale T Caddy TITLE Operations Manager DATE November 26, 1980
[Signature]
(This space for Federal or State office use)

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