Form 3160-3 (November 1983) (formerly 9-331C)	DEPARTMEN BUREAU O	TED STATES	NTER	T	ide)	30-015- Form approved. Budget Bureau I Expires August 5. LEASE DESIGNATION NM-01165 6. IF INDIAN, ALLOTTER	No. 1004-0136 31, 1985 AND BEBIAL NO.
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b. TYPE OF WELL						Voluntary	
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Marathon Oil 3. ADDRESS OF OPERATOR	Company V	·······		MAY 1 5 19	31	. 18	
	2, Midland, TX	79702		O. C. D.		10. FIELD AND POOL, O	R WILDCAT
4. LOCATION OF WELL (B	leport location clearly an	nd in accordance wit	h any St		• .	Burtonflat (D	elaware)
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990' FNL & 9	90'_FEL					Sec. 18, T-20	
14. DISTANCE IN MILES	AND DIRECTION FROM NE	AREST TOWN OR POS	r o ffice '	•			
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15. DISTANCE FROM PROP LOCATION TO NEARES	T		10. NO.		TO T	HIS WELL	
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18. DISTANCE FROM PRO TO NEAREST WELL, I OR APPLIED FOR, ON TH	DRILLING, COMPLETED,	* 764	15. 180	3800'		tary	
21. ELEVATIONS (Show wh			l	5800	1 10	22. APPROX. DATE WO	RE WILL START®
3263' GR						May 20, 19	91
23.		PROPOSED CASH	IG AND	CEMENTING PROGR.	AM	+ ····	
				SETTING DEPTH	1	QUANTITY OF CEME	[m
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<u> </u>	$\frac{13-3/8"}{2}$	48	-	350' 1250'		sx - circulate	
<u>12-1/4"</u> 8-3/4"	<u>9-5/8"</u> 7"	20	-	3150'		sx - TOC @ 600	1/
8-3/4 6-1/4"	4-1/2"	10.5	1	3800'		sx - TOC @ 260	
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SPECIAL STIPULAT		* 0 .		On Reverse Side			

*See Instructions On Reverse Side

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



Le contra de la co

Submit to Appropriate District Office State Lease - 4 copies Fee Lease - 3 copies

DISTRICT I P.O. Box 1980, Habbs, NM \$8240

DISTRICT II P.O. Drawer DD, Artenia, NM \$8210

State of New Mexico Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION P.O. Box 2088

Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

		All Distance	s must be from the outer boundaries		Wei No.
		COMPANY	Lease YATES F	FDFRAT	Weil No. 18
	RATHON OIL			County	1
t Letter	Section 18	ZO SOUTH	Range 29 EAST		EDDY
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-	cation of Well:	NORTH	990	East from the EA	ST
990	reat from the		line and Pool	feet from the EA	Dedicated Acreage;
und level Elev	. 1700	ucing Formation		1	· · · · ·
3263.8'		Lamar	Burtonflat (D polored pencil or hackure marks on the p	elaware)	40 Acres
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this for No allo	m if neccessary	ned to the well until all intere	sts have been consolidated (by commun as been approved by the Division.		ooling, or otherwise)
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1120.	.0				RONALD J. EIDBON,

MULTIPOINT SURFACE USE AND OPERATIONS PLAN

Marathon Oil Company

YATES FEDERAL #18 990' FNL & 990' FEL Section 18, T-20-S, R-29-E Eddy County, New Mexico Lease: 01165

This plan is submitted with the Application for Permit to Drill the above described well. The purpose of this plan is to describe the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedure to be followed in rehabilitating the surface after the completion of all operations so that a complete appraisal can be made of the environmental effects associated with the proposed operations.

1. Existing Roads

Exhibit "A" is a portion of a topographic map showing the location of the proposed well as staked. From Hobbs, take U.S. 62-180 west past mile marker 50. Turn north on Eddy Co. Rd. 238. Follow 238 north and west for 6.4 miles, then north on caliche road .8 mile into location. All existing roads used to access the proposed location shall be maintained in the same or better condition than presently found.

2. Planned Access Roads

A. Length and Width

The proposed access road will be approximately 500 feet in length and 16 feet in width. The proposed access road will enter the location from the east.

B. Surfacing Material

6" caliche rolled and packed.

C. Maximum Grade

Three Percent (3%)

D. Turnouts

None Required

E. Drainage Design

Natural drainage.

F. Culverts

As needed.

G. Cuts and Fills

None required.

H. Gates, Cattlegaurds and Fences

16' wide cattleguard in pasture fence that intersects proposed access road.

3. Location of Existing Wells

Exhibit "B" is a map showing the location of all the wells within a one mile radius of the proposed well.

- 4. Location of Existing and Proposed Facilities
 - A. Exhibit "C" is a map of the existing roads with the proposed well location.
 - B. In the event of a producible oil well, oil will be stored at the battery location on the Yates Federal #3 pad with production metered at the location. The gas will be piped to existing flow lines in a manner to be determined at a later date. All flowlines have been centerline staked from wellsites to holding facilities.
- 5. Location and Type of Water Supply

Water will be furnished and trucked by a Contractor.

6. Source of Construction Materials

Caliche for surfacing the drilling pad will be obtained from a pit in the NE/4 of the NW/4 section of Section 20, T-20-S, R-25-E.

- 7. Methods of Handling Waste Disposal
 - A. Drill cuttings will be disposed of in the drilling pits.
 - B. Drilling fluids will be vacuumed from the reserve pit and hauled to an approved disposal well. Reserve pit contents will be allowed to dry and pitwalls backfilled. All areas of the pad and reserve pit not necessary to production will be re-contoured. Top soil will be redistributed and reseeded with the recommended seed mixture.

Multipoint Surface Use and Operations Plan Page 3

- C. Water produced during tests will be disposed of in the drilling pits and hauled to an approved salt water disposal well.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper, garbage, and junk will be stored in a trailer on location and hauled to an approved disposal site.
- F. All trash and debris will be removed from the wellsite within 30 days after finishing drilling and completion operations.

8. <u>Ancillary Facilities</u>

None required.

9. <u>Wellsite Layout</u>

Exhibit "D" shows the relative location of the rig components and reserve pits.

10. Plans for Restoration of Surface

- A. After finishing drilling and completion operations all equipment and other materials not necessary for operations will be removed. Pits will be filled and leveled and the location cleaned of all trash and junk to leave the wellsite in an aesthetically pleasing condition as is possible.
- B. Any unguarded pits containing fluids or trash will be fenced until they are filled or leveled.
- C. After abandonment of well, equipment will be removed, the location will be cleaned, and the pad and access road will be ripped and returned to as near the original appearance as is possible.
- D. In the event of a producer, the land not necessary for production operations will be re-contoured and seeded with the recommended mixture submitted by the BLM.

11. Other Information:

A. <u>Topography</u>

The location is situated on a duned landform.

B. Soil

Typic Torripsamment subgroup.

14/04239102/P3

Multipoint Surface Use and Operations Plan Page 4

C. Flora and Fauna

The vegetation cover consists of native range grasses with yucca plants, cactus and mesquite. Wild life in the area includes rabbits, dove, quail, and other inhabitants typical of semi-arid climate.

D. <u>Ponds and Streams</u>

Local drainage in this area is internal.

E. <u>Residence and Structures</u>

None nearby.

F. Archaeological, Historical and Cultural Sites

None observed in the area. The Archaeological Inspection Report is being forwarded by Archaeological Consultants, Inc.

G. Land Use

Grazing with hunting in season.

H. <u>Surface Ownership</u>

The proposed wellsite is on land owned by the Federal Government.

12. Operators Representative

Stanley L. Atnipp P. O. Box 552 Midland, TX 79702 (915) 682-1626

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist, that the statements made in this place 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.

S. L. Atnipp

Drilling Superintendent

4/25/91

MARATHON OIL COMPANY

-

YATES FEDERAL #18 ADDITIONAL INFORMATION Comply with Order 1

In conjunction with Form 9-331C, Application to drill subject well, Marathon Oil Company submits the following items of information in accordance with BLM requirements:

1. Geological Name of Surface Formation

Quaternary Alluvium

2. Estimated Tops of Important Geological Markers

Rustler	400′
Base of Salt	975 ′
Yates	975 <i>'</i>
Capitan Reef	1200′
Laman 55	3120′
lst Sand	3210′
2nd Sand	3360′

3. Estimated Depths of Anticipated Water, Oil or Gas Bearing Formations

Yates (water)	975′
Capitan Reef (water)	1200'
Lamar (water & oil) 좌	3120'
lst Sand (water & oil)	3210'
2nd Sand (water & oil)	3360′

4. Casing and Cementing Program

13-3/8" Surface to 350':	Cement to surface with 360 sxs Class "C" with 2% CaCl ₂
9-5/8" Intermediate to 1250':	Cement to surface with 350 sxs Modified Lite followed by 100 sxs Class "C" with 2% CaCl ₂
7" Intermediate to 3150'	Cement to surface w/ 330 sx modified lite followed by 175 sx Class "C" w/ 2% CaCl ₂
4-1/2" Production to 3800':	Cement to 2600' with 120 sx Class "C"

Additional Information Page 2

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5. <u>Pressure Control Equipment</u> (Exhibit E)

20" Conductor	21-1/2" diverter or rotating head - function test to 2000 psi
13-3/8" Surface:	13-5/8" 3000 psi working pressure annular preventer tested to 3000 psi
	13-5/8" 3000 psi working pressure pipe and blind rams tested to 3000 psi
9-5/8" Intermediate:	11" 3000 psi working pressure annular preventer tested to 3000 psi
	11" 3000 psi working pressure pipe rams and blind rams tested to 3000 psi Choke manifold tested to 3000 psi
7" Intermediate	11" 3000 psi working pressure annular preventer tested to 3000 psi
	11" 3000 psi working pressure pipe rams and blind rams tested to 3000 psi

6. <u>Proposed Mud Program</u>

0 - 300'	Native; Mud Wt: 8.5 - 8.8, Viscosity 28-34 Sec
300' - 1,250'	Brine Water; Mud Wt: 10.0 - 10.2, Viscosity 28-32 Sec
1,250' - 3,150'	Fresh Water; Mud Wt: 8.4 - 8.6, Viscosity 28-30 Sec
3,150' - 3,700'	Fresh Water; Mud Wt: 8.5 - 8.8, Viscosity 34-38 Sec

Choke manifold tested to 3000 psi

7. Auxiliary Equipment

A safety value and subs to fit all strings will be kept on the floor at all times. An upper kelly cock value will be utilized with the handle available on the rig floor. Surface Hole: Stroke Counter Intermediate Hole: PVT, Gas Separator Production Hole: PVT, Gas Separator, H2S Monitor

Additional Information Page 3

- 8. <u>Testing, Logging, and Coring Programs</u>
 - A. Coring Program:

None anticipated.

B. Testing Program:

None anticipated.

C. Logging Program:

TD-Surface - GR/LDT/CN, Sonic/DLL/RXO, FMS, RFT

D. Mud Logging Services:

Not required.

9. Abnormal Pressures, Temperatures or Potential Hazards

Possible losses in surface and intermediate hole. Possible sulphur water flow between 1000'-2000'.

10. Anticipated Starting Date

As soon as possible



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