Form 3160-3 (November 1983) (Formerly 9-331C)	DEPARTME	TED STATES NT OF THE I F LAND MANAG	NTERIO	SUBMIT IN T (Other inst rever R		FORM APPROVED. ON Budget Bureau No. 10 Expires August 31, 1 5. LEASE DESIGNATION A	ND SERIAL NO.
APPLICATIO	N FOR PERMIT	TO DRILL.	DEEPE	N. OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	
1a. TYPE OF WORK DR b. TYPE OF WELL DIL 57 G		DEEPEN		PLUG BAC ଟା ଟ ^ଥ ୍ୟର୍ଗ୍ୟାମ	к 🗆	7. UNIT AGREEMENT NAM VOLUNT 8. FARM OR LEASE NAM	ARY
2. NAME OF OPERATOR Marathon Oil Co			ZONE	JUN - Y	1992	9. WELL NO.	-
3. ADDRESS OF OPERATOR P.O. BOX 552	Midland. Tx. 797(12				10. FIELD AND POOL. OR	WUDCAT
4. LOCATION OF WELL (F At surface 990' FNL & 660' At proposed prod. zoi 990' FNL & 660'	ne	in accordance with $\mathcal{M}^{\mathcal{D}}$	any State req	uirements.*)		N. SHUGART	BLK.
14. DISTANCE IN MILES AN 10 MI. S.E. OF L	D DIRECTION FROM NEARES	T TOWN OR POST OF	FICE*			SEC. 10, T-18 12. COUNTY OR PARISH EDDY	
15. DISTANCE FROM PROPO LOCATION TO NEAREST PROPERTY OR LEASE L (Also to nearest drig.	SED* 6	50'	16. NO. OF	ACRES IN LEASE		ACRES ASSIGNED IS WELL 40	<u> </u>
18. DISTANCE FROM PROPO TO NEAREST WELL, DR OR APPLIED FOR, ON T	SED LOCATION* ILLING, COMPLETED, HIS LEASE, FT.	N/A	19. PROPOS	ED DEPTH 4600'	20. ROTAR	Y OR CABLE TOOLS	
21. ELEVATIONS (Show Wh 3716.5' G.L.	ether DF, RT, GR, ETC.)					22. APPROX. DATE WOR JUNE 15,	
23.	PF	ROPOSED CASIN	G AND CE	MENTING PROGRA	AM Can	itan Controlled	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOO	π :	SETTING DEPTH		QUANTITY OF CEMENT	
17 1/2"	14"	54		40'	CEMENT TO SURFACE W/ REDI-MIX		
12 1/4"	8 5/8"	24		750'	410 :	SX. CIRCULATE TO	SURFACE
7 7/8"	5 1/2"	15.5		4600'		715 SX.	

PROPOSE TO DRILL TO A T.D. OF 4600'.

ALL CASING WILL BE RUN AND DEMENTED IN ACCORDANCE WITH REGULATIONS AND BY APPROVED METHODS. BLOWOUT PREVENTION EQUIPMENT WILL BE APPLIED AS OUTLINED IN "ADDITIONAL INFORMATION". SEE ATTACHED "MULTIPOINT SURFACE USE PLAN" AND "ADDITIONAL INFORMATION" FOR SPECIFIC DRILLING OPERATIONS THIS WELL IS A PROPOSED YATES, 7-RIVERS, QUEEN, GRAYBURG PRODUCER.

THIS IS THE FIRST WELL ON THIS LEASE.

Post ID-1 6-12-92 Men Loc + API

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.

SIGNED SIGNED	TITLE	DRILLING SUPERINTENDENT	DATE 5/19/92
(This space for Federal or State office use)			
PERMIT NO.			
APPROVED BY	TITLE	1995年には1995年 中国語語語語語 - Alis Alis Alis Alis Alis Alis Alis Alis	68.92-
CONDITIONS OF APPROVAL, IF ANY :	IIILE _		DATE
APPROVAL SUBJECT TO			
CIDERAL REQUIREMENTS AND			
SPECIAL STIPULATIONS	*See Instruc	tions On Reverse Side	

TITLE 18 USC 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.

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

State of New Mexico

rgy, Minerals and Natural Resource Department

Form C-102 Revised 1-1-89

DISTRICT I P.O. Box 1980, Hobbs, NM 88240

DISTRICT II P.O. Drawer DD, Artesia, NM 88210

DISTRICT III 1000 Rio Brazos Rd., Axtec, NM 87410

OIL CONSERVATION DIVISION

P.O. Box 2088 Santa Fe, New Mexico 87504-2088

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator	MARATHON OIL		Lease	JOHNSON "/			Well No.
Unit Letter			<u> </u>				5
D	Section 10	Township 18 SOUTH	Range	71 5467		County	
Actual Footage Lo				31 EAST	NMPM		EDDY
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Ground Level Kle			Pool	<u> </u>	feet from	the WES	Dedicated Acreage:
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		cated to the well, outline eac			-		g interest and royalty).
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If answer is "no	o" list of owners a	and tract descriptions which	have actual	lly been consolida	ted. (Use reve	rse side of	
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MULTIPOINT SURFACE USE AND OPERATIONS PLAN

Marathon Oil Company

JOHNSON "A" FEDERAL NO. 5 990' FNL & 660' FWL Section 10, T-18-S, R-31-E Eddy County, New Mexico Lease: LC-029388

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. At the intersection of NM 82 and Eddy County 222, go south 4 miles, southeast on the Westall Road 1.4 miles, 1.2 miles northeast. Turn west for .5 mile, north for .6, northwest for .5 to 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

An access road of approximately 2900' in length and 14' in width will be required. The access road will enter the location from the southeast.

B. Surfacing Material

6" caliche rolled and packed.

C. Maximum Grade

Three Percent (3%)

D. Turnouts

None Required

E. Drainage Design

Natural drainage.

Multipoint Surface Use and Operations Plan Page 2

F. Culverts

Not required.

G. Cuts and Fills

None required.

H. Gates, Cattlegaurds and Fences

None required.

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 Johnson "A" Federal #5 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.

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 NW/4 of the NW/4 section of Section 15, T-18-S, R-31-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, then will be stirred to further dry within the reserve pit walls. Upon drying, the pit walls will be folded over the reserve pit and any and all top soil will be distributed and re-seeding will take place in the proper season. 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. Ancillary Facilities

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. Topography

The location is situated on a duned landform.

B. Soil

Typic Torripsamment subgroup.

15/05189201/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. Ponds and Streams

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. Surface Ownership

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

MARATHON OIL COMPANY

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JOHNSON "A" FEDERAL #5 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. <u>Geological Name of Surface Formation</u>

Quaternary Alluvium

2. Estimated Tops of Important Geological Markers

Rustler	4001	Delaware Sand	4616′
Base of Salt	1850'		
7-Rivers Dolomite	3160′		
Queen Sand & Dolomite	3360′		
Grayburg Dolomite	3875 <i>'</i>		
San Andres Dolomite	43201		

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

7-Rivers (water & oil)	3160′
Queen (water & oil)	3360′
Grayburg (water & oil)	3875′
San Andres (water & oil)	4320′
Delaware (water & oil)	4616 <i>'</i>

4. <u>Casing and Cementing Program</u>

14" Conductor to 40':	Cement to surface with redi-mix
8-5/8" Surface to 750':	Cement to surface with 200 sxs Modified Lite followed by 210 sxs Class "C" with 2% CaCl ₂
5-1/2" Production to 4,600':	Cement to surface with 385 sx Class "C" lite PozMix; tail in with 330 sx Class "C" w/ 3% KCl.

Additional Information Page 2

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

14" Conductor	Diverter or rotating head - function test
8-5/8" Surface:	11" 3000 psi working pressure annular preventer tested to 2000 psi
	11" 3000 psi working pressure pipe and blind rams tested to 3000 psi

6. Proposed Mud Program

0 - 750' Native; Mud Wt: 8.7 - 9.2, Viscosity 35-45 Sec 750' - 3,800' Brine Water; Mud Wt: 10.0 - 10.2, Viscosity 26-28 Sec 3,800' - 4,600' Brine Water; Mud Wt: 10.0 - 10.4, Viscosity 33-36 Sec

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, H2S Monitor

8. Testing, Logging, and Coring Programs

A. Coring Program:

None anticipated.

B. Testing Program:

None anticipated.

Additional Information Page 3

C. Logging Program:

.....

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

D. Mud Logging Services:

Two-man unit w/ full service to begin @ 2500'.

9. Abnormal Pressures, Temperatures or Potential Hazards

Possible H2S in Queen and San Andres. Hydrogen Sulfide safety and monitoring equipment shall be rigged up at the 8-5/8" casing point.

10. Anticipated Starting Date

As soon as possible



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MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

All contractors and subcontractors employed by Marathon Oil Company will receive or have received training from a qualified instructor within the last twelve months in the following areas prior to commencing drilling operations on this well.

- 1. The hazards and characteristics of hydrogen sulfide (H2S)
- 2. Safety precautions
- 3. Operations of safety equipment and life support systems

In addition, contractor supervisory personnel will be trained or prepared in the following areas:

- 1. The effect of H2S on metal components in the system. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- 2. Corrective action and shut-down procedures when drilling or reworking a well, blowout prevention and well control procedures, if the nature of work performed involves these items.
- 3. The contents and requirements of the contingency plan when such plan is required.

All personnel will be required to carry documentation of the above training on their person.

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

A. Wind direction indicators as seen in attached diagram.

B. Automatic H2S detection alarm equipment (both audio and visual).

C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS' and "CAUTION" with a strong color contrast.

D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipment

Equipment includes but is not limited to:

- a. pipe rams to accomodate all pipe sizes
- b. blind rams
- c. choke manifold
- d. closing unit

Auxillary equipment added as appropriate includes:

- a. annular preventor
- b. rotating head
- c. mud- gas separator
- d. flare line and means of ignition
- e. remote operated choke

B. Communication

The rig contractor will be required to have two-way communication capability. Marathon Oil Company will have either land-line or mobile telephone capabilities.

C. Mud Program

The mud program has been designed to minimize the volume of H2S circulated to surface. Proper mud weight, safe drilling practices, and the use of H2S scavengers when appropriate will minimize hazards when penetrating H2S bearing zones.

D. Drill Stem Test intervals are as follows:

DST No. 1	ft. to	ft.
DST No. 2	ft. to	ft.
DST No. 3	ft. to	ft.

Drill Stem Testing Safety Rules are attached.

III. WELL SITE DIAGRAM

A complete well site diagram including the following information is attached.

- 1. Rig orientation
- 2. Terrain
- 3. Briefing areas
- 4. Ingress and egress
- 5. Pits and flare lines
- 6. Caution and danger signs
- 7. Wind indicators and prevailing wind direction

WELL TESTING IN AN H2S ENVIRONMENT

Drill stem testing shall be performed with a minimum number of personnel in the immediate area which are necessary to safely and adequately conduct the test operation and operate the test equipment. Except with prior approval by the authorized officer, the drill stem testing of H2S zones shall be conducted only during daylight hours and formation fluids shall not be flowed to the surface. All drill stem testing operations in an H2S environment will incorporate the closed chamber method of testing.



¥ Whid Phreetien Indicators

Safe Briefing Areas with caution signs and protective breathing equipment