APPROVED BY

THE STATE SAND

CONDITIONS OF APPROVAL, IF ANY:

UNITED STATES	
DEPARTMENT OF THE INTE	ERIOF

Form approved. Budget Bureau No. 42-R1425/A	
1-115-26516	L
201200210	١,

DEPARTMENT OF THE INTERIOR						5. LEASE DESIGNATION AND SERIAL NO.	
GEOLOGICAL SURVEY						LC 029388 -C	
APPLICATION	N FOR PERMIT T			EN, OR PLUG I	BACK_	6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
1a. TYPE OF WORK	· <u> </u>					7. UNIT AGREEMENT NAME	
	LL X	DEEPEN [PLUG BA	CK 📋	Voluntary	
b. TYPE OF WELL OIL G	AS 🗆			INGLE X MULTI	PLE	S. FARM OR LEASE NAME	
WELL X	ELL OTHER		Z	WECEINED		Stetco "10"	
2. NAME OF OPERATOR						9. WELL NO.	
Marathon 0i1 3. ADDRESS OF OPERATOR	Company			- 10		6	
	W 11 J TV 70	702		OCT 25'9	U	10. FIELD AND POOL, OR WILDCAT	
P 0 Box 552,	Midland, TX 79:	in accordance with	h any S			Tamano (Bone Spring)	
At surface		_		O. C. W	• _ ^	11. SEC., T., B., M., OB BLK.	
990' FSL & 66	60' FEL	1 A P		ARTESIA, OF	1CE	AND SURVEY OR AREA	
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990' FSL & 60	AND DIRECTION FROM NEAR	EST TOWN OR POST	OFFIC	E*		12. COUNTY OR PARISH 13. STATE	
	of Loco Hills,					Eddy NM	
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(Also to nearest dright 18. DISTANCE FROM PROF	g, unit line, if any)		19. P	ROPOSED DEPTH		RY OR CABLE TOOLS	
TO NEAREST WELL, D OR APPLIED FOR, ON TH	RILLING, COMPLETED.	992'		9000'	Rota	ry	
21. ELEVATIONS (Show wh		992		7000		22. APPROX. DATE WORK WILL START*	
						November 25, 1990	
37.11 GR	3711.5'			D CEMENTING PROGR	AM		
23.	I	ROPOSED CASIN	G AN.	D CEMENTING PROGR			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FO	OT	SETTING DEPTH		QUANTITY OF CEMENT	
17-1/2"	13-3/8"	48		750'		x - circulate	
11"	8-5/8"	24 & 32		2450'	_	x - circulate	
7-7/8"	5-1/2"	15.5 & 17		9000'	1500 s	ns and by Murber API	
·	1	1		1	١.	PM +D	
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All casing wi	11 be run and o	emented in	acco	ordance with re	guratro	The and by Murbic & HPL	
	•					tional Information.	
	فسمست فينا	will be ap	plie	ed as outlined	nformat	tional Information.	
See attached	Multipoint Surf	ace Use Pla	ın ar	nd Additional 1	птогшас	ion for specific	
drilling oper	ations.						
						- AO CT	
		- 1 1 1/1				二二二二	
* Distance fr	com Stetco "10"	Federal #1				— m	
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						of new productive	
IN ABOVE SPACE DESCRIB zone. If proposal is to preventer program, if an	drill or deepen direction	proposal is to deep ally, give pertinent	en or data	plug back, give data on on subsurface locations	present proc and measure	luctive sone and proposed new productive d and true vertical depths. Give blowout	
24.							
A	(Ilach		ת	rilling Sumeri	ntendeni	DATE 10-9-90	
SIGNED	W-77.	TI	LE T	LITTING DUPCIT			
(This space for Fed	eral or State office use)						
PERMIT NO.				APPROVAL DATE			
, DB.A.L. 110.				Notice of		11. 311.61	
APPROVED BY		TIN	TLE	MAPISĀNU (P)		DATE 10 24 90	

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

State of New Mexico L. gy, Minerals and Natural Resources Departme

Form C-102 Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

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

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

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

MARATHON OIL CO. Section Township 18 South Range 31 East NMPM Educated Footage Location of Well: 990	ell No.	Well No.			Lease					
This Postage Location of Well: 990 feet from the South line and 660 feet from the East 990 feet from the South line and 660 feet from the East 3711.5 Bone Spring Carbonate Tamano (Bone Spring) 1. Outline the screege dedicated to the subject well by colored peecil or hackure marks on the plat below. 2. If more than one lease is dedicated to the subject well by colored peecil or hackure marks on the plat below. 3. If more than one lease is dedicated to the subject well by colored peecil or hackure marks on the plat below. 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communication, force-pooling, etc.? Yee	6		Federal	tetco 10			•	oil co	ATHON	
P 10 18 South 31 East NMPM Education of Well: 990 feet from the South line and 660 feet from the East 2011 South line and 660 feet from the East 2011 Tamano (Bone Spring) 1. Outlies the acreage dedicated to the subject well by colored peacil or heckure marks on the plat below. 2. If more than one lease of different overenthip is dedicated to the well, have the interest of all owners been consolidated by communication, force-pooling, stc.? If more the owners and tract descriptions which have actually been consolidated. (Use reverue side of the form if seconsary. No adverted will be amalgand to the well ustill all interests have been approved by the Division. OPERATOR I have been consolidated until a more deaded until a non-deaded unit, stimulating such interest, has been approved by the Division. OPERATOR I have been consolidated to the well ustill all interests have been approved by the Division. OPERATOR I have been of my incondesting to the way in interest, has been approved by the Division. OPERATOR I have been of my incondesting to the way in interest have been consolidated. (Use reverue side of the form in the constant and tract descriptions which have actually been consolidated. (Use reverue side of the form in the constant and unit, stimulating such interest, has been approved by the Division. OPERATOR I have been consolidated to the well ustill all interests have been consolidated. (Use reverue side of the series of my incondesting the series of the series of my incondesting the series of my incondesting the series of the series o			lo		Range					
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MULTIPOINT SURFACE USE AND OPERA' AS PLAN

Marathon Oil Company

STETCO "10" #6
990' FSL & 660' FEL
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. Proceed west from Hobbs, NM, on U.S. Highway 180. Turn west on NM Highway 529. After 31 miles, turn west on U.S. Highway 82 for 1/2 mile to Highway 222. Turn south on Highway 222 for 2 miles to caliche road, NM 249. Go east 1.3 miles. Turn N.E. on dirt road for 1.3 miles; turn west on dirt road for .5 mi., then north .2 mile, then east 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

An access road of approximately 250^{\prime} in length and 14^{\prime} in width will be constructed.

B. Surfacing Material

6" of caliche compacted and rolled

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

None required.

G. Cuts and Fills

None required.

H. Gates, Cattlegaurds and Fences

None Required.

Location of Existing Wells 3.

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

Location of Existing and Proposed Facilities 4.

- 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 Stetco "10" #6 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.

Location and Type of Water Supply

Water will be furnished and trucked by a Contractor.

Source of Construction Materials 6.

Caliche for surfacing the drilling pad and access road will be obtained from a pit in the NW/4, SW/4 and NE/4 of the NW quarter section of construction by the following archaeological clearance numbers, #85-195, #85-345.

Methods of Handling Waste Disposal 7.

- A. Drill cuttings will be disposed of in the drilling pits.
- 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. Ancillary Facilities

None required.

Wellsite Layout

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.

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. Residence and Structures

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

10-9-90

MARATHON OIL COMPANY

STETCO "10" #6 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	810′	Delaware	4580′
Base of Salt	2040 <i>'</i>	Bone Spring	5820 <i>′</i>
Yates	2095′	1st Sand	7670 <i>'</i>
Seven Rivers	2665'	2nd Carb	7885 <i>'</i>
	3370'	Main Pay	8055 ′
Queen	3890'	2nd Sand	8200′
Grayburg	•	Zila ballo	
San Andres	4340′		

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

Yates (water) Seven Rivers (water) Queen (water & oil) Grayburg (water & oil) San Andres (water & oil)	2095' 2665' 3370' 3890' 4340'	Bone Spring 1st Sand (water & oil) 2nd Carb (water & oil) Main Pay (water & oil) 2nd Sand (water & oil)	5820' 7670' 7885' 8055' 8200'
Delaware (water & oil)	4580′		

4. Casing and Cementing Program

13-3/8" Surface to 750': Cement to surface with 835 sxs Class "C" with 2% CaCl₂

8-5/8" Intermediate to 2450': Cement to surface with 1100 sxs

Modified Lite followed by 250 sxs

Class "C" with 2% CaCl₂

5-1/2" Production to 9000': Cement to 2200' with 1500 sxs Class "H" PozMix. Stage tool @ \pm 7400'

5. Pressure Control Equipment (Exhibit E)

13-3/8" Surface: 13-5/8" 3000 psi working pressure annular preventer tested to 2000 psi

13-5/8" 3000 psi working pressure pipe and blind rams tested to 3000 psi

Additional Information Page 2

8-5/8" Intermediate:

11" 3000 psi working pressure annular preventer tested to 2000 psi

11" 3000 psi working pressure pipe rams and blind rams tested to 3000 psi Choke manifold tested to 3000 psi

6. Proposed Mud Program

0 - 750 Native; Mud Wt: 8.3 - 9.2, Viscosity 28-34 Sec

750 - 2,700 Brine Water; Mud Wt: 9.0 - 10.0, Viscosity 28-32 Sec

2,700 - 7,000 Fresh Water; Mud Wt: 8.6 - 8.8, Viscosity 28-32 Sec

7,000 - 9,000 Fresh Water; Mud Wt: 8.8 - 9.2, Viscosity 32-44 Sec

7. Auxiliary Equipment

A safety valve and subs to fit all strings will be kept on the floor at all times. An upper kelly cock valve will be utilized with the handle available on the rig floor.

8. Testing, Logging, and Coring Programs

A. Coring Program:

None anticipated.

B. Testing Program:

None anticipated.

C. Logging Program:

TD-Surface - GR-DIL, GR-LDT-CNL, TD-TOP of Bone Spring, GR-LSS, NGT, DLL-MSFL.

9. Abnormal Pressures, Temperatures or Potential Hazards

None anticipated

10. Anticipated Starting Date

As soon as possible







