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Form 9-531 C (May 1963)			~	(Oth	er instruc			Form approve Sudget Burea	ed. u No. 42–R1425
	DEPARTMEN	TED STATES			reverse si	de)	-		en La de La d e n de La de
				RIUR			5. LEASE	DESIGNATION	AND SERIAL NO.
		GICAL SURV)53434	
	N FOR PERMIT	TO DRILL, I	DEEP	EN, OR P	LUG B	ACK	0. IF IND	MAN, ALLOTTE	COR TRIBE NAME
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b. TYPE OF WELL							Lea	Unit-	
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2. NAME OF OPERATOR	Componen						Lea 9. WELL	Unit Dee	ep: _
Marathon Oil 3. ADDRESS OF OPERATOR	Сощрану	· · · · · · · · · · · · · · · · · · ·					12	-	1
P.O. Box 2409	Hobbs, New	Mexico 882	40			2		AND POOL, O	R WILDCAT
LOCATION OF WELL (R At surface	eport location clearly and	d in accordance wit	h any	State requiremen	its.*)	· · · · · · · · · · · · · · · · · · ·	Wildcat (ND)		
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8 3/4	7 5/8	29.7, 33.7				<u></u>	Jacito	·	· · · · · · · · · · · · · · · · · · ·
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6 1/2	4 1/2	15.5# (C-7	5)	1660	0	770 sa	icks	G G G L	
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SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS"									
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(This space for Feder	al or State office use)			/	NP	PKEN		à l	
PERMIT NO.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·		APPROVAL DATE _	-G	AM.	EP DED 1979		
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		*See Instruc	tions	On Reverse S	iide 🛴				

# NE EXICO OIL CONSERVATION COMMISSI WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-10	02
Supersede	# C+128
Fflective	1-1-65

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Entrator N	Narathon Oil Co.	L,eai	Lea Unit [	Deep	12		
1 c.,• ; e**=	Sentaire Township		Fange				
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1980	teet trom the North	Line and	990 teet to a	East	. \$75 <b>**</b>		
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	Ellenburger acreage dedicated to the		Undesignated	· • • • • • • • • • • • • • • • • • • •	<u>320</u> A.res		
	n one lease is dedicated		·		•		
dated by co	one lease of different ov mmunitization, unitization	, force-pooling, e			ll owners been consoli-		
this form if No allowable	will be assigned to the w	ell until all inte	rests have been cons	olidated the commi	initization, unitization,		
forced-poolin sion.	ng, or otherwise) or until a R-3		t, eliminating such in	ierests, has been a	pproved by the Commis-		
			€ <b>4</b>		CERTIFICATION		
	Dedicated Acreage		   	i tained herein	tify that the information con- n is true and complete to the nowledge and belief.		
	<b>}</b>		9 A0	Productio	D. Anderson on Engineer Oil Company		
T 20 S	1	}	:     	May 26,			
	NEER & LAND CLINK		:               	shown on thi notes of act under my sup	rtify that the well location s plat was plotted from field ual surveys made by me or pervision and that the same correct to the best of my id beilef		
AR 10	W MEXICO		1 ; ; ; ;		3,1979 Hand to the inglineer What		
330 660 90	1320 1650 1980 2317 264	ic 200C 1	BOD 100C 500	E Certificate No	John W. West 676 Ronald J. Eidson 3239		

MARATHON OIL COMPANY Lea Unit Deed Well No. 12 Additional Information To Comply With NTL-6

1. Geologic Name of Surface Formation:

### Quaternary

2. Estimated Tops of Important Geologic Markers:

Anhydrite	-	1750'
Salt	-	1900'
Base Salt	-	3200'

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

_	150'
-	9500 <b>'</b>
	11500'
-	12800'
	14350 <b>'</b>

4. Proposed Casing Program:

See attached application

## 5. Blowout Equipment Specifications:

Installed on Surface Casing: 13 5/8" 5000# W.P. Cameron or equivalent, 5000# Hydril Annular type or equivalent, and rotating load. All BOP rams, flow and choke lines, choke manifold, and kill lines to be tested to 5000#. Annular BOP's tested to 3500#.

Installed on Intermediate Casing: 11" 10,000# W. P. BOP's, with 2 pipe and 1 blind ram, 10,000# W.P. Hydril annular type or equivalent, and rotating head. All BOP rams, flow and choke lines, choke manifold, and kill lines to be tested to 10,000#. Annular BOP's will be tested to 7000#.

### 6. Proposed Mud Program:

- 0 900' Fresh water containing bentonite and lime. Mud wt. 8.5 - 9.0 ppg; viscosity 33 - 34 sec.
- 900 5500' Brine water with lost circulation material. Mud wt. 10 ppg; viscosity 29 sec.
- 5500 10000' Brine water with Benex Gel and Lime. Mud wt. 9.3 9.5 ppg. Weight controlled with fresh water.

a ser and

10000 - 11900' 4 percent KCl water

11900 - T.D. KCl Dextrid and Drispak polymer Brine mud.

#### 7. Auxiliary Equipment:

A stabbing valve will be kept on the floor to be used when the kelly is not in the string

8. Testing, Logging, and Coring Programs:

No cores will be taken The proposed logging program is as follows:

A. Before setting 7 5/8" casing string:

Compensated Neutron and Compensated Density 14,000 to 5500'Gamma Ray and Caliper14,000 to surfaceDual Laterolog with Gamma Ray14,000 to 5500'

B. After setting 7 5/8" casing string:

Cement Bond - Collar Log with Gamma Ray14,000 to cement topCompensated Neutron and Compensated Density TD to 14,000Dual Laterolog with Gamma RayTD to 14,000

9. Abnormal Pressures, Temperatures, or Potential Hazards:

None anticipated.

10. The Anticipated Starting Date is as soon as permitted with Completion Operations finished, approximately 180 days following spud date, barring any unforeseen difficulties. Multi-Point Surface Use and Operations Plant Marathon Oil Company Lea Unit Deep Well No. 12 1980' FNL and 990' FEL Sec. 13, T-20S, R-34E Lea County, New Mexico Lease New Mexico 02127-B

This plan is submitted with the Application for Permit to Drill the above described Well. The purpose of the 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 procedures to be followed in rehabilitating the surface after completion of the operation so that a complete appraisal can be made of the environmental effect associated with the operation.

### 1. Existing Roads:

- A. Exhibit "A" is a portion of a highway map showing the location of the proposed well as staked. Approximately 8.4 miles southwest of the junction of State Highway 529 and U. S. Highway 62 and 180 on U. S. Highway 62 and 180, an improved road goes south along the west sides of Sec. 25 and 36, T-19S, R-34E and Sections 1, 12, 13, 24, 25, and 36, T-20S, R-34E. Approximately 4.3 miles south a lease road proceeds south passing Marathon Oil Company's Lea Unit Compressor Station, through a cattle guard, turns east and then proceeds to Marathon Oil Company's Lea Unit Well No. 3.
- B. Exhibit "B" is a plat showing all existing roads within a three mile radius of the proposed well site.
- C. The portion of the lease road running from the main access road east to Well No. 3 will be repaired over a distance of 1380' with new caliche 6" deep and 16' wide, watered and compacted.

#### 2. Planned Access Roads:

- A. Length and width: The new road required will be 16 feet wide and 1830 feet long. This new road is labeled and color coded red on Exhibits "B" and "C". The center line of the proposed new road from the beginning to the well site has been staked and flagged with the stake being visible from any one to the next.
- B. <u>Surfacing material</u>: Six inches of caliche, watered, compacted and graded.
- C. Maximum grade: 3 percent.
- D. Turnouts: None required.
- E. <u>Drainage design</u>: New road will have a drop of 6" from center to each side.
- F. Culverts: None required.
- G. Cuts and fills: None required.
- H. Gates, cattle guards, and fences: None required.
- 3. Location of Existing Wells:
  - A. All wells within a two-mile radius of the proposed well are shown on

# 4. Location of Existing and/or Proposed Facilities:

- A. Location of the existing compressor station, tank battery, buried transmission lines, flowlines, salt water disposal line, and gaslift servicing lines are shown on Exhibit "C".
- B. If the proposed well is completed for production as a gas well gas separation facilities will be constructed on the location with gas metered at the wellhead and condensate transmitted to the existing tank battery by the flowline shown on Exhibit "C". If the well is completed as an oil producer, the location for the new flowline from the wellhead to the tank battery is the same as above. In the event of completion, the liquid hydrocarbons produced will be either commingled with existing production or separate facilities for water removal and storage will be constructed within the boundries of existing facilities with no additional surface disturbance occuring. The center of the proposed new flowline has been staked. The flowline will not be buried.
- 5. Location and Type of Water Supply.
  - A. Water for drilling will be purchased from Sonny's Oilfield Servicing Company of Hobbs, New Mexico, and transported by truck to the well site.
- 6. Source of Construction Materials:
  - A. Caliche for surfacing the road and the well pad will be obtained from an existing pit SE 1/4, NE 1/4 of Sec. 36, T-20S, R-34E. The pit is on land owned by Federal Government. Location of the pit is shown on Exhibit "B".
- 7. Methods of Handling Waste Disposal:
  - A. Drill cuttings will be disposed of in the drilling pits.
  - B. Drilling fluids will be allowed to evaporate in the pits until pits are dry.
  - C. Water produced during tests will be disposed of in the drilling pits or hauled to an approved salt water disposal well.
  - D. Current laws and regulations pertaining to the disposal of human wast will be complied with.
  - E. Trash, waste paper, garbage, and junk will be buried om a separate trash pit and covered with a minimum of 24" of dirt. Location of the trash pit is shown on Exhibit "D".
  - F. All trash and debris will be buried or removed from the well site within 30 days after finishing drilling and completion operations.

#### 8. Ancillary Facilities:

A. None required.

9. Well Site Layout:

- A. Exhibit "D" shows the relative locations of the pad, mud pits, and reserve pit, trash pit, burn pit, and locations of major rig components.
- B. Only minor leveling of the well site will be required. No significant cuts or fills will be necessary.
- C. The reserve pit will be plastic-lined.
- D. The pad and pit area has been staked and flagged.

- 10. Plans for Restoration of Surface:
  - A. After finishing drilling and completion operations, all equipment and other material not needed for operations will be removed. Pits will be filled and leveled, and the location cleaned of all trash and junk to leave the well site in an aesthetically pleasing condition as possible.
  - B. Any unguarded pits containing fluids or trash will be fenced until they are filled or leveled.
  - C. After abandonment of well, all equipment will be removed, location cleaned, and the pad and access road will be left as agreed to by Marathon Oil Company and the surface rights owner.
- 11. Other Information:
  - A. Topography: Land surface is flat, fairly smooth, and sandy.
  - B. Soil: Fine sand underlain by caliche.
  - C. Flora and Fauna: The vegetative cover is generally sparse and consists of mesquite, yucca, sand sage, and native range grasses. Wildlife in the area includes; rabbits, coyotes, reptiles, dove, guail, and other inhabitants typical of semi-arid desert land.
  - D. <u>Ponds and Streams</u>: There are no rivers, lakes, ponds, or streams in the area.
  - E. <u>Residence and other structures</u>: There are no occupied dwellings within a three mile radius of the well site. The nearest water well is one-half mile north of proposed well site and is used seasonally for watering of grazing cattle.
  - F. Archeological, Historical, and Cultural Sites: None observed in the area. Archeological Inspection Report is forthcoming.
  - G. Land Use: Grazing and hunting in season.
  - H. <u>Surface Ownership</u>: Well site and all proposed access roads and flowline routes are under Private Ownership. Representative for the owner is Mr. Tom Davenport, Midland, Texas.
- 12. Operator's Representative:

C. S. Hilton, Jr. P.O. Box 2409 Hobbs, New Mexico 88240

505/393-7106

13. Certification:

I hereby certify that I have inspected the proposed drillsite and access route; that I am familiar with the conditions that 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 sub contractors in conformity with this plan and the terms and conditions under which it is approved.

<u>///// 29 1979</u> Date/

Tilution & Andasia Michael D. Anderson

Production Engineer Marathon Oil Company



Well locations

 $\langle \rangle$ 

> Main compressor station

 $\Delta$  Secondary compressor station  $\bigcirc$  Tank Battery

Black	-	existing roads
Red	-	new road
Orange	-	flow lines
Blue		gas lift lines
Purple	-	SWD line
Green		new flow line



Exhibit "C" Marathon Oil Company Lea Unit Deep Well No. 12 1980' FNL & 990' FEL Sec. 13, T-20S, R-34E Lea County, New Mexico

Scale: 1'' = 1/2 mile



SCALE 1'' = 100'

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