#### STATE OF NEW MEXICO



## ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

June 2, 1993

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87504 (505) 827-5800

Marathon Oil Company P.O. Box 552 Midland, TX 79702-0552

Attention: T. N. Tipton

Administrative Order DD-82

# Dear Mr. Tipton:

Under the provisions of General Rule 111 (c), (d) and (e), Marathon Oil Company made application to the New Mexico Oil Conservation Division on April 27, 1993, for authorization to directionally drill its proposed Warn State A/C-2 Well No. 21, Lea County, New Mexico.

## The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and (e) of the Division General Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

## IT IS THEREFORE ORDERED THAT:

(1) The applicant, Marathon Oil Company, is hereby authorized to directionally drill its Warn State A/C-2 Well No. 21, the surface location of which shall be 1109 feet from the North line and 1993 feet from the West line (Unit C) of Section 6, Township 18 South, Range 35 East, NMPM, Lea County, New Mexico, by kicking off from the vertical

Administrative Order DD-82 Marathon Oil Company June 2, 1993 Page No. 2

at a depth of approximately 6100 feet, and drilling in such a manner as to bottom in the Undesignated Vacuum-Drinkard Pool at a standard oil well location within Lot 3 (NE/4 NW/4 equivalent) of said Section 6 forming a standard 40-acre, more or less, oil spacing and proration unit for said pool.

<u>PROVIDED HOWEVER THAT</u> prior to commencing directional drilling operations into said wellbore, the applicant shall establish the location of the kick-off point by means of a directional survey acceptable to the Division.

<u>PROVIDED HOWEVER THAT</u> during or upon completion of directional drilling operations, the applicant shall conduct an accurate wellbore survey from the kick-off point to total depth in order that the subsurface bottomhole location, as well as the wellbore's true depth and course, may be determined.

- (2) The applicant shall notify the supervisor of the Hobbs district office of the Division of the date and time said wellbore surveys are to be conducted so that they may be witnessed. The applicant shall further provide a copy of said wellbore surveys to the Santa Fe and Hobbs offices of the Division upon completion.
- (3) Form C-105 shall be filed in accordance with Division Rule 1105 and the operator shall indicate thereon true vertical depth in addition to measured depths.
- (4) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

WILLIAM J. LEMAY

Director

SEAL

WJL/MES/amg

cc: Oil Conservation Division - Hobbs NM State Land Office - Santa Fe

May 21, 1991

Marathon Bil Company
P.O. Br 552
Midland, Texas 79702- 0552
Attention: T. N. Tiplon
Administrative Order DD-82
Dear Mr. Tiphon:
Under the provisions of General Rule 111 (c), (d) and (e), Marathon Billongun
made application to the New Mexico Oil Conservation Division on
Marn State A/C-Z U,, Ehen County, New Mexico.
Warn State A/C-Z U., & Lug County, New Mexico.
11 No. 2,

The Division Director Finds That:

- (1) The application has been duly filed under the provisions of Rule 111(d) and(e) of the Division General Rules and Regulations;
- (2) Satisfactory information has been provided that all offset operators have been duly notified;
- (3) The applicant has presented satisfactory evidence that all requirements prescribed in General Rule 111 will be met; and
- (4) No objections have been received within the waiting period prescribed by said rule.

Administrative Order DD-\* May 21, 1991 Page No. 2

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directionally drill its When Sah M/c-z My, the surface location of which shall be 1109
feet from the North line and 1993 feet from the West line (Unit C)
of Section 6, Township 18 South, Range 35 East, NMPM, Lea County,
New Mexico, by kicking off from the vertical at a depth of approximately 6/00 feet,
and drilling in such a manner as to bottom in the Andrews Vacuum Printer, at a standard
and drilling in such a manner as to bottom in the <u>Madazinade Vacuum Drinka</u> at a standard well location within the <u>Lor 3 (Note 1974)</u> of said Section <u>(a</u> forming a standard 40-acre spacing and proration unit for said pool.
40-acre spacing and proration unit for said pool.
*** more or less,
formation within 50 feet of a point feet from the
line and feet from the line of Section
, being a standard well location for said formation.
***
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PROVIDED HOWEVER THAT during or upon completion of directional drilling
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Administrative Order DD-\* May 21, 1991 Page No. 3

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opera	(3) Form C-105 shall be ator shall indicate thereon true		with Division Rule 1105 and the ldition to measured depths.	he
\	(4) The of ing a standardact	f said Sections	shall be dedicated to the web	
Divisi	(5) Jurisdiction of this causion may deem necessary.	se is retained for the	e entry of such further orders as the	he
	DONE at Santa Fe, New Me	exico, on the day and	d year hereinabove designated.	
			OF NEW MEXICO ONSERVATION DIVISION	
		WILLL Directo	AM J. LEMAY	
SEA	A L			
cc:	Oil Conservation Division -	Holls		
	NAISLO - Santa Fe			



May 20, 1993

Mr. William J. Lemay, Director
State Of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division
310 Old Santa Fe Trail
P. O. Box 2088
Santa Fe, New Mexico 87504
(505) 827-5800

RE: Application of Marathon Oil Company
For Administration Approval
Warn State A/C 2 No. 21
1,109' FNL and 1,993' FWL
Section 6, T-18-S, R-35-E
Vacuum Drinkard Field
Lea County, New Mexico

Dear Sir:

Please find attached copies of Waivers of Objection from all offset operators to Marathon's application to directionally drill the Warn State A/C 2 No. 21.

Should you have any questions or require further information, please contact C. T. Kent at (915) 682-1626, extension 8282.

Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc: R. A. Biernbaum

C. T. Kent

T. C. Lowry

D. R. Petro

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Warn State A/C  $2\,$  No.  $21\,$  well in the Vacuum Drinkard Field is hereby waived.

Shell Western E&P Inc.

SIGNED: R L Syber

TITLE: 050 Administrator

DATE: 5/6/93

RECEIVED

MAY 7 1993

Engineering Department Midland District Midland, Texas

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Warn State A/C 2 No. 21 well in the Vacuum Drinkard Field is hereby waived.

COMPANY: Lexae

SIGNED: Chale

TITLE: Wien Exploitation Manager

DATE: april 29, 1973

RECEIVED

APR 30 1993

Engineering Department Midland District Midland, Texas

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Warn State A/C  $\,^2$  No.  $\,^2$  well in the Vacuum Drinkard Field is hereby waived.

COMPANY: Phillips Petroleum Company

SIGNED: D. R. Wier

TITLE: <u>Director</u>, <u>Reservoir Engineering</u>

DATE: April 28, 1993

RECEIVED

APR 29 1993

Engineering Department Midland District Midland, Texas

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April 27, 1993

Mr. William J. Lemay, Director State of New Mexico Energy, Minerals, and Natural Resources Department Oil Conservation Division 310 Old Santa Fe Trail P. O. Box 2088 Santa Fe, New Mexico 87504 (505) 827-5800

RE: Application of Marathon Oil Company

For Administrative Approval For Directional Drilling Warn State A/C 2 No. 21 1,109' FNL and 1,993' FWL Section 6, T-18-S, R-35-E Vacuum Drinkard Field Par/Lea County, New Mexico

Dear Sir:

Marathon Oil Company, respectfully requests administrative approval to directionally drill the Warn State A/C 2 Well No. 21 in the Vacuum Drinkard Field from an unorthodox surface location of 1,109' FNL and 1,993' FWL of Section 6 to an orthodox bottomhole location 826' FNL and 2,194' FWL of Section 6.

Geologic constraints dictate that the well needs to be located in the southern portion of the 40-acre proration unit. However, several surface obstructions prevent drilling the well at an orthodox location. A suitable surface location was found at 1,109' FNL and 1,993' FWL. This location is only 211' from the southern boundary of the proration unit which is closer than the 330' standoff required by Statewide Rules for 40-acre oil development.

Marathon proposes to directionally drill the Warn State A/C 2 Well No. 21 from the above mentioned location to an orthodox bottomhole location 826' FNL and 2,194' FWL of Section 6. The well will be drilled vertically to a depth of 6,100', then deviated in a northeasterly direction at an angle of 11.02°, to reach the proposed bottomhole location. Directional surveys will be run as described in NMOCD Rule 111. Attached is a site plat showing the surface and proposed bottomhole locations as well as the surface obstructions in the area. Also attached is a cut-away view of the proposed directional drilling plan.

Mr. William J. Lemay, Director
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resource Department
Warn State A/C 2 No. 21
Vacuum Drinkard Field
Lea County, New Mexico
Page Nol. 2

As described in NMOCD Rule 111 operators of all offsetting proration units have been notified of this application by certified mail. Attached is a list of those operators and a copy of the letter providing notice.

Should you have any questions or require further information, please contact C. T. Kent at (915) 682-1626, extension 8282.

Sincerely,

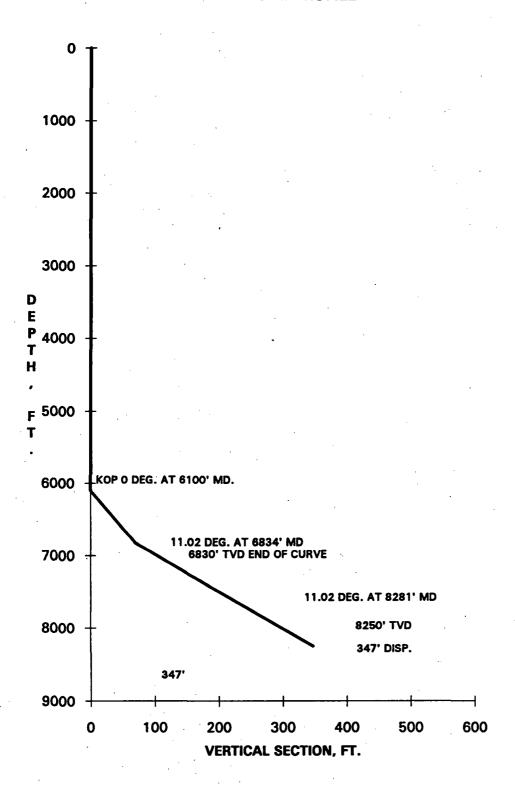
T. N. Tipton

Engineering Manager Midland Operations

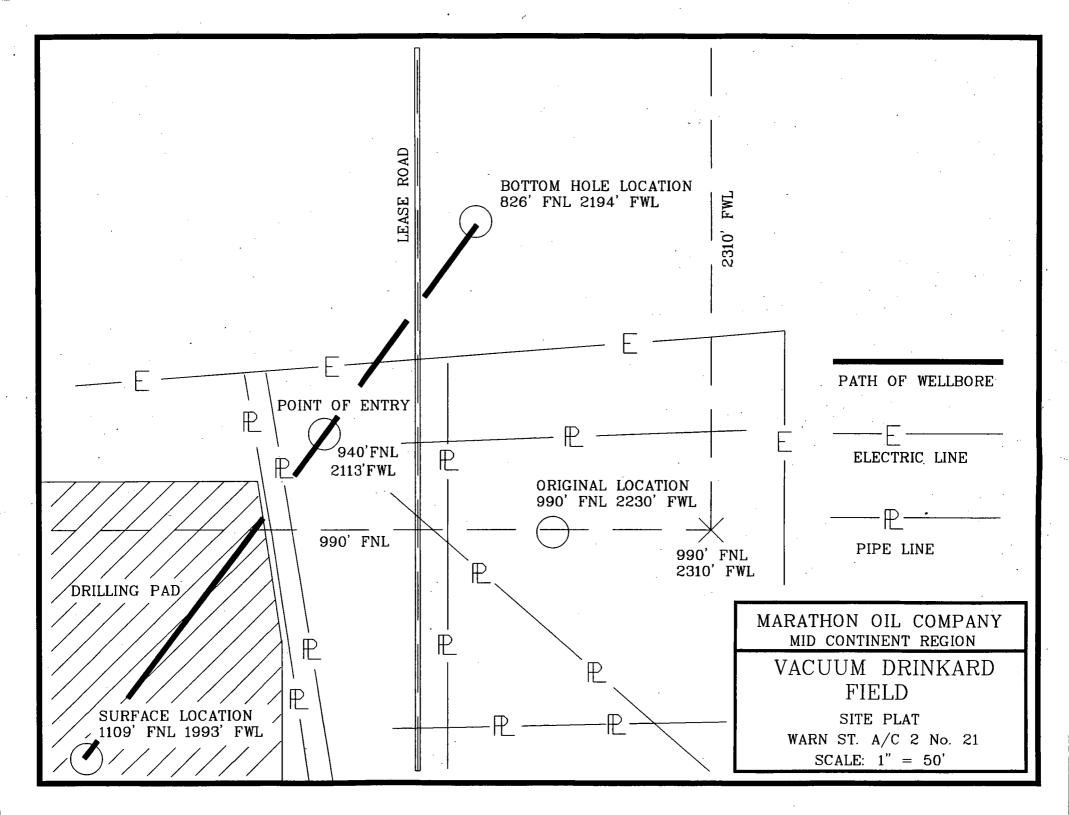
xc:

- R. A. Biernbaum
- C. T. Kent
- T. C. Lowry
- C. T. Pearce
- D. R. Petro
- R. F. Unger

# **VERTICAL PROFILE**



Page 1





April 27, 1993

Offset Operators (Mailing List Attached) Certified Mail

RE: Request for Waiver
Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Warn State A/C 2 No. 21
1,109' FNL and 1,993 FWL
Section 6, T-18-S, R-35-E
Vacuum (Drinkard) Field
Lea County, New Mexico

#### Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Warn State A/C 2 No. 21. Because of various obstructions in the NE/4 NW/4 of Section 6, the well will be directionally drilled from an unorthodox surface location 1,109' FNL and 1,993' FWL to an orthodox bottom hole location 826' FNL and 2,194' FWL.

If you have no objection to this request please sign and return one copy to Marathon. Should you have any questions or require further information please contact C. T. Kent at (915) 682-1626, extension 8282.

Sincerely,

T. N. Tipton
Engineering Manger
Midland Operations

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Warn State A/C  $2\,$  No.  $21\,$  well in the Vacuum Drinkard Field is hereby waived.

COMPANY:	 	 
SIGNED:		
TITLE:		
DATE:		

Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79702

Shell Western E&P, Inc. P. O. Box 3463 Houston, TX 77252

Phillips Petroleum Company 4001 Penbrook Odessa, TX 79762



April 27, 1993

Mr. William J. Lemay, Director
State of New Mexico
Energy, Minerals, and Natural Resources Department
Oil Conservation Division
310 Old Santa Fe Trail
P. O. Box 2088
Santa Fe, New Mexico 87504
(505) 827-5800

RE: Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Warn State A/C 2 No. 21
1,109' FNL and 1,993' FWL
Section 6, T-18-S, R-35-E
Vacuum Drinkard Field
Lea County, New Mexico

### Dear Sir:

Marathon Oil Company, respectfully requests administrative approval to directionally drill the Warn State A/C 2 Well No. 21 in the Vacuum Drinkard Field from an unorthodox surface location of 1,109' FNL and 1,993' FWL of Section 6 to an orthodox bottomhole location 826' FNL and 2,194' FWL of Section 6.

Geologic constraints dictate that the well needs to be located in the southern portion of the 40-acre proration unit. However, several surface obstructions prevent drilling the well at an orthodox location. A suitable surface location was found at 1,109' FNL and 1,993' FWL. This location is only 211' from the southern boundary of the proration unit which is closer than the 330' standoff required by Statewide Rules for 40-acre oil development.

Marathon proposes to directionally drill the Warn State A/C 2 Well No. 21 from the above mentioned location to an orthodox bottomhole location 826' FNL and 2,194' FWL of Section 6. The well will be drilled vertically to a depth of 6,100', then deviated in a northeasterly direction at an angle of 11.02°, to reach the proposed bottomhole location. Directional surveys will be run as described in NMOCD Rule 111. Attached is a site plat showing the surface and proposed bottomhole locations as well as the surface obstructions in the area. Also attached is a cut-away view of the proposed directional drilling plan.

Mr. William J. Lemay, Director
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resource Department
Warn State A/C 2 No. 21
Vacuum Drinkard Field
Lea County, New Mexico
Page Nol. 2

As described in NMOCD Rule 111 operators of all offsetting proration units have been notified of this application by certified mail. Attached is a list of those operators and a copy of the letter providing notice.

Should you have any questions or require further information, please contact C. T. Kent at (915) 682-1626, extension 8282.

Sincerely,

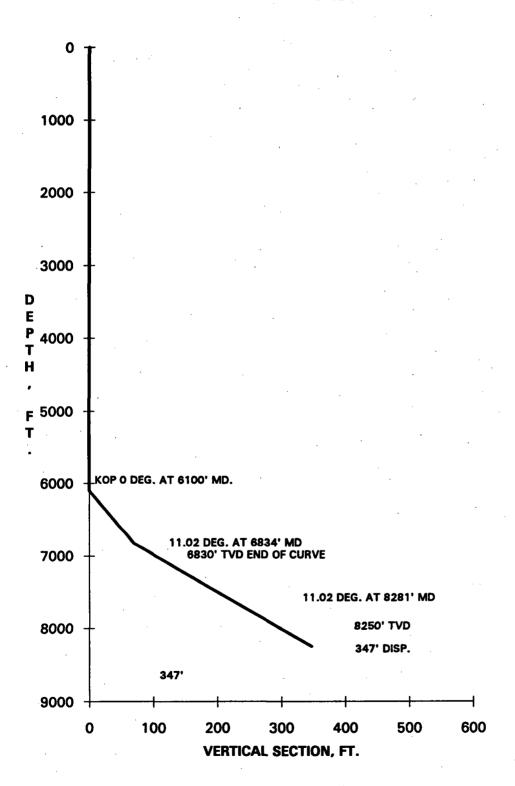
T. N. Tipton

Engineering Manager Midland Operations

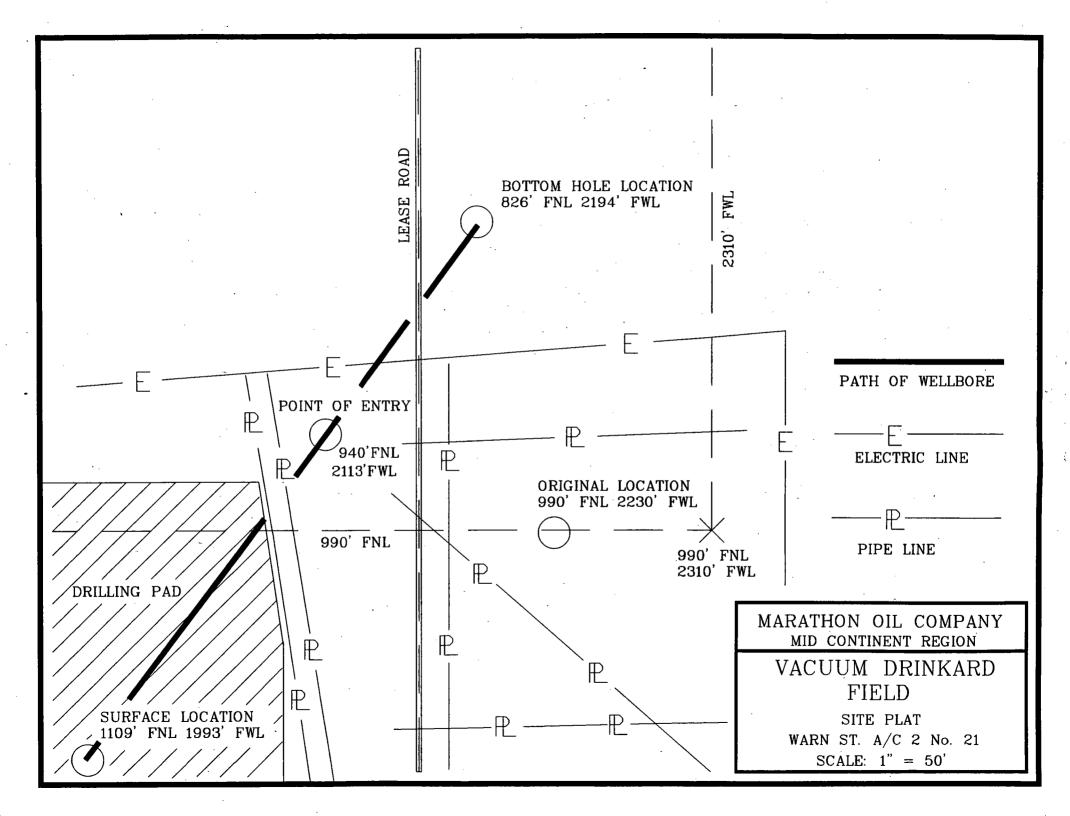
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# **VERTICAL PROFILE**



Page 1





April 27, 1993

Offset Operators (Mailing List Attached) Certified Mail

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Warn State A/C 2 No. 21
1,109' FNL and 1,993 FWL
Section 6, T-18-S, R-35-E
Vacuum (Drinkard) Field
Lea County, New Mexico

## Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Warn State A/C 2 No. 21. Because of various obstructions in the NE/4 NW/4 of Section 6, the well will be directionally drilled from an unorthodox surface location 1,109' FNL and 1,993' FWL to an orthodox bottom hole location 826' FNL and 2,194' FWL.

If you have no objection to this request please sign and return one copy to Marathon. Should you have any questions or require further information please contact C. T. Kent at (915) 682-1626, extension 8282.

Sincerely,

T. N. Tipton Engineering Manger Midland Operations

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Warn State A/C 2 No. 21 well in the Vacuum Drinkard Field is hereby waived.

COMPANY:	*		
SIGNED:		 	_
TITLE:			
DATE:			

Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79702

Shell Western E&P, Inc. P. O. Box 3463 Houston, TX 77252

Phillips Petroleum Company 4001 Penbrook Odessa, TX 79762



April 27, 1993

Mr. William J. Lemay, Director
State of New Mexico
Energy, Minerals, and Natural Resources Department
Oil Conservation Division
310 Old Santa Fe Trail
P. O. Box 2088
Santa Fe, New Mexico 87504
(505) 827-5800

RE: Application of Marathon Oil Company
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Warn State A/C 2 No. 21
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Mr. William J. Lemay, Director
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resource Department
Warn State A/C 2 No. 21
Vacuum Drinkard Field
Lea County, New Mexico
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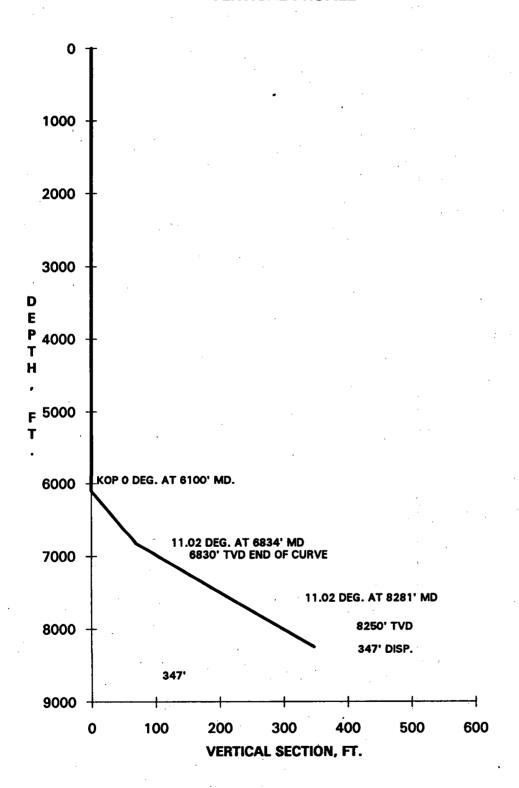
T. N. Tipton

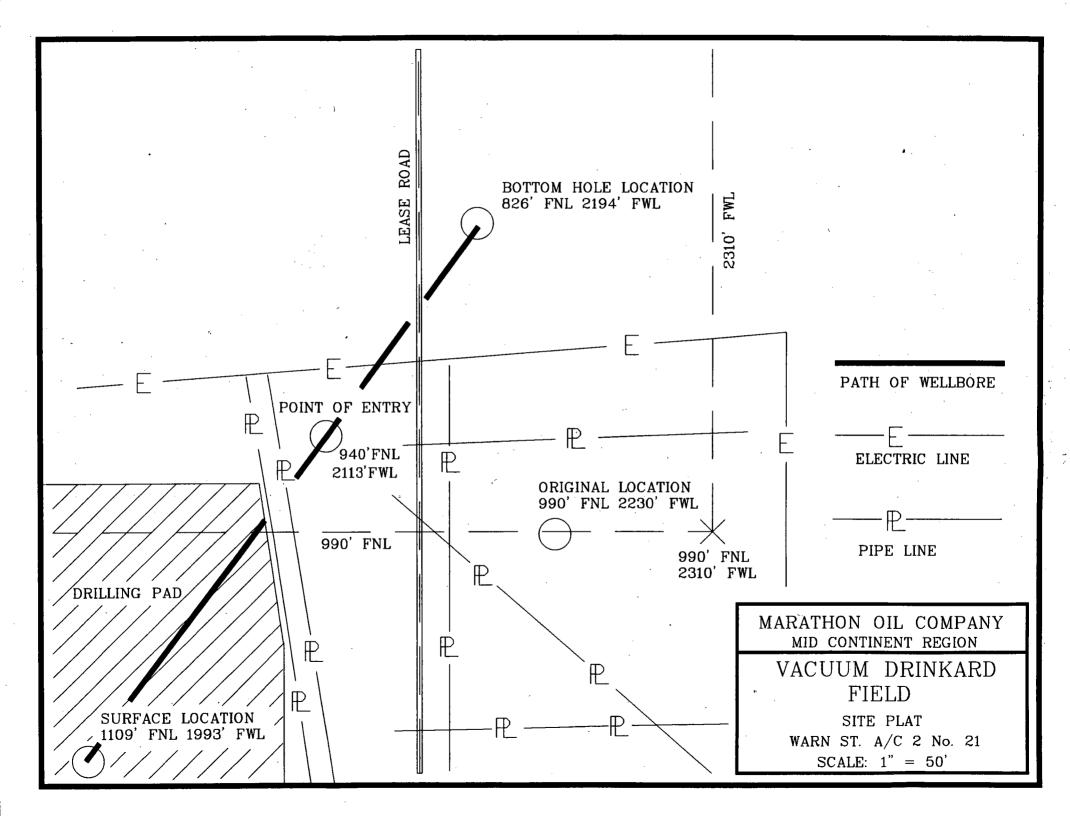
Engineering Manager Midland Operations

xc:

- R. A. Biernbaum
- C. T. Kent
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April 27, 1993

Offset Operators (Mailing List Attached) Certified Mail

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Application of Marathon Oil Company
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Warn State A/C 2 No. 21
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Section 6, T-18-S, R-35-E
Vacuum (Drinkard) Field
Lea County, New Mexico

### Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Warn State A/C 2 No. 21. Because of various obstructions in the NE/4 NW/4 of Section 6, the well will be directionally drilled from an unorthodox surface location 1,109' FNL and 1,993' FWL to an orthodox bottom hole location 826' FNL and 2,194' FWL.

If you have no objection to this request please sign and return one copy to Marathon. Should you have any questions or require further information please contact C. T. Kent at (915) 682-1626, extension 8282.

Sincerely,

T. N. Tipton

Engineering Manger Midland Operations

and Petro for Tur

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COMPANY:	 	
SIGNED:		
TITLE:	 <del></del>	 
DATE:		

Texaco Exploration and Production, Inc. P. O. Box 3109 Midland, Texas 79702

Shell Western E&P, Inc. P. O. Box 3463 Houston, TX 77252

Phillips Petroleum Company 4001 Penbrook Odessa, TX 79762

Description: Mr Sec 7; 144 Sec 8 (l-2241, 6-1-62)

Ext: 54/4 Sec. ( (R-9843, 2-8-93)

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