#### STATE OF NEW MEXICO.



### ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT

OIL CONSERVATION DIVISION



BRUCE KING GOVERNOR

ANITA LOCKWOOD CABINET SECRETARY

July 22, 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-86

# 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 June 23, 1993, for authorization to directionally drill its proposed Indian Hills State Comm. Well No. 8, Eddy 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 Indian Hills State Comm. Well No. 8, the surface location of which shall be 976 feet from the South line and 660 feet from the West line (Unit M) of Section 36, Township 20 South, Range 24 East, NMPM, Eddy County, New Mexico, by kicking off from the vertical at a depth of approximately 6000 feet, and drilling in such a manner as to bottom in the South Dagger Draw-Upper Pennsylvanian Associated Pool at a location within the SW/4

Administrative Order DD-86 Marathon Oil Company July 22, 1993 Page No. 2

SW/4 of said Section 36 that is considered to be standard pursuant to the Special Rules and Regulations for the South Dagger Draw-Upper Pennsylvanian Associated Pool as promulgated by Division Order No. R-5353-L, as amended.

<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 Artesia 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 Artesia 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) The S/2 of said Section 36 shall be dedicated to the well forming a standard 320-acre oil or gas spacing and proration unit for the subject pool.
- (5) 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. LEMA

Director

SEAL

WJL/MES/amg

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

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Submit to Appropriate
District Office
State Lease - 4 copies
Pee Lone - 3 copies

# State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT II P.O. Drawer DD, Artesta, KM 88210

WELL LOCATION AND ACREAGE DEDICATION PLAT

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Mid-Continent Region Production United States



P.O. Box 552 Midland, Texas 79702 Telephone 915/682-1626

## PANAFAX TRANSMITTAL SHEET

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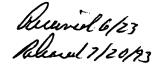
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#### STATE OF NEW MEXICO



# 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

86

Administrative Order DD-

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/G 2 Well No. 21, Lea County,

New Mexico.

Indian Hills State Comm

Eddy

#### 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

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

# IT IS THEREFORE ORDERED THAT:

II IS THEREFORE ORDERED THAT:
(1) The applicant, Marathus Oil Company, is hereby authorized to
directionally drill its Indian Will Stufe forms by, the surface location of which shall be 976
feet from the Soul line and 160 feet from the Use line (Unit M)
of Section 36, Township 20 South, Range 24 East, NMPM, Eddy County,
New Mexico, by kicking off from the vertical at a depth of approximately 6000 feet,
of diffing in such a manner as to bottom in the South Bagger Braw Upper at a standard
of said Section 36, forming a standard
spacing and proration unit for said pool.
formation within 50 feet of a point feet from the
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South Pager Braw Upper Pennyhuman Barrialed Pool
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Upper Penneylvanium to Associated Pool as fromulgated by
Division Oule No. A-5353-6, as amended.

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PROVIDED HOWEVER THAT 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.

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A Indianalia Order DD-0 May 21, 199 Page No. 3



June 29, 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
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico

OIL CONSERVATION DIVISION OF THE CRIVED

#### Dear Sir:

Please find attached a copy of the letter sent to Graham Resources, Inc. notifying them of the application to drill the above referenced well. Graham Resources recently acquired the working interest previously held by BHP Petroleum. The letter was sent by certified mail on June 29, 1993.

Should you have any questions or require further information, please contact V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc:

R. A. Biernbaum

R. J. Folse

T. C. Lowry

V. G. Odorisio

C. T. Pearce

D. R. Petro

R. F. Unger



June 29, 1993

Graham Resources, Inc. 12707 N. Freeway Suite 200 Houston, TX 77060 Attn: Jason Sizemore Certified Mail

RE: Request for Waiver
Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico

#### Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Indian Hills State Comm No. 8. Because of topographical constraint relating to the course of South Seven Rivers (Stinking Draw), the well will be directionally drilled from an orthodox surface location 976' FSL and 660' FWL to an orthodox bottom hole location 705' FSL and 731' 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

J. M. Jiston
T. N. Tipton

Engineering Manger Midland Operations

Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

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



June 29, 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
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
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Sincerely,

J. n. Typta

T. N. Tipton Engineering Manager Midland Operations

xc: R. A. Biernbaum

R. J. Folse

T. C. Lowry

V. G. Odorisio

C. T. Pearce

D. R. Petro

R. F. Unger



June 29, 1993

Graham Resources, Inc. 12707 N. Freeway Suite 200 Houston, TX 77060 Attn: Jason Sizemore Certified Mail

RE: Request for Waiver
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For Administrative Approval
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
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South Dagger Draw Field
Eddy County, New Mexico

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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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

2n. Tystor

Engineering Manger Midland Operations Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

COMPANY:			
SIGNED:	-	,	 ·
TITLE:			
DATE:			•



June 29, 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
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
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Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc:

R. A. Biernbaum

R. J. Folse

T. C. Lowry

V. G. Odorisio

C. T. Pearce

D. R. Petro

R. F. Unger



June 29, 1993

Graham Resources, Inc. 12707 N. Freeway Suite 200 Houston, TX 77060 Attn: Jason Sizemore Certified Mail

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#### Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Indian Hills State Comm No. 8. Because of topographical constraint relating to the course of South Seven Rivers (Stinking Draw), the well will be directionally drilled from an orthodox surface location 976' FSL and 660' FWL to an orthodox bottom hole location 705' FSL and 731' 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

IN. Dist

Engineering Manger Midland Operations Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

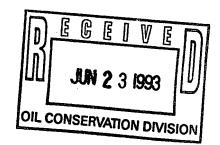
COMPANY:	
SIGNED:	·
TITLE:	
DATE:	



June 22, 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
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



#### Dear Sir:

Marathon Oil Company, respectfully requests administrative approval to directionally drill the Indian Hills State Comm No. 8 in the South Dagger Draw Field from an orthodox surface location of 976' FSL and 660' FWL of Section 36 to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36.

Due to topographical constraints, a drillsite directly above the desired bottomhole location cannot be utilized. South Seven Rivers (Stinking Draw) runs across the location making it unsuitable for a drillsite. A suitable surface location was found at 976' FSL and 660' FWL of section 36. This surface location is still an orthodox location.

Marathon proposes to directionally drill the Indian Hills State Comm No. 8 from the above mentioned location to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36. The well will be drilled vertically to a depth of 6,000', then deviated in a southerly direction at an angle of 9.46°, to reach the proposed bottomhole location. Directional surveys will be run as described in NMOCD Rule 111. Attached is a site plat and topographic map showing the surface and proposed bottomhole locations as well as the surface obstruction. Also attached is a cross-sectional view of the proposed directional drilling plan.

Mr. William J. Lemay, Director
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resource Department
Indian Hills State Comm No. 8
South Dagger Draw Field
Eddy 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

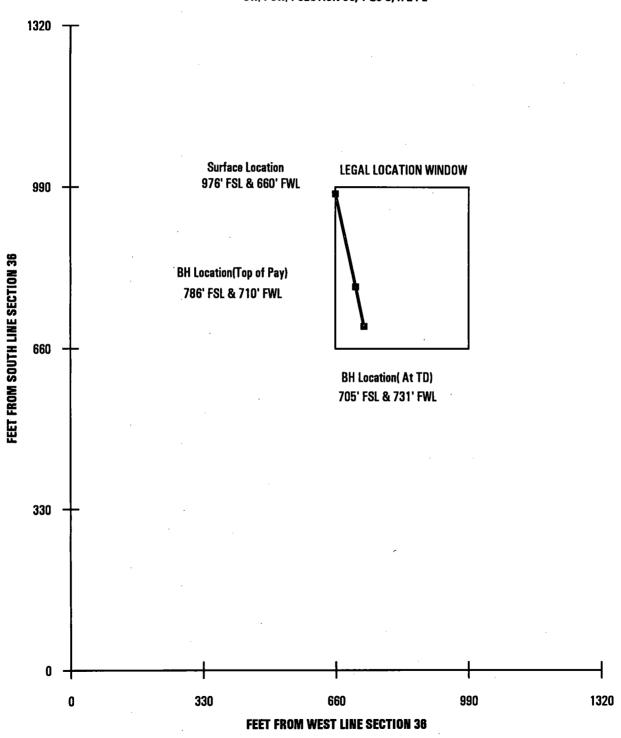
Engineering Manager Midland Operations

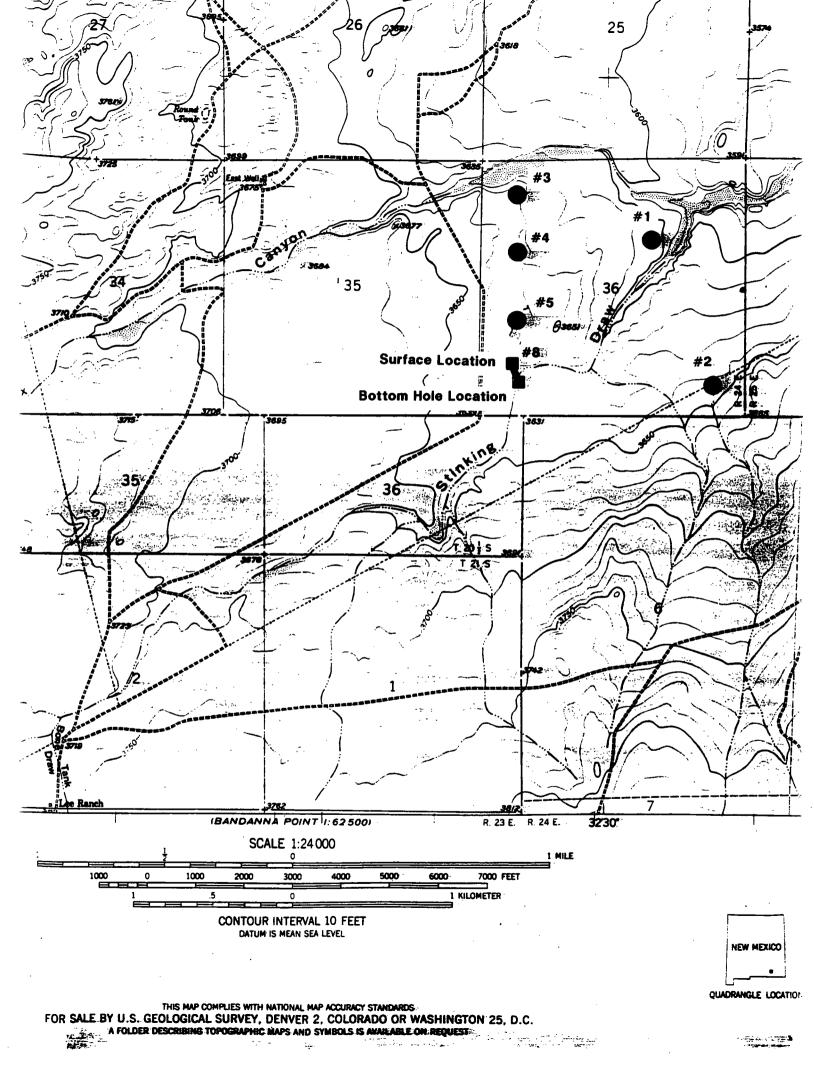
xc:

- R. A. Biernbaum
- R. J. Folse
- T. C. Lowry
- V. G. Odorisio
- C. T. Pearce
- D. R. Petro
- R. F. Unger

# **INDIAN HILLS STATE COM. 8**

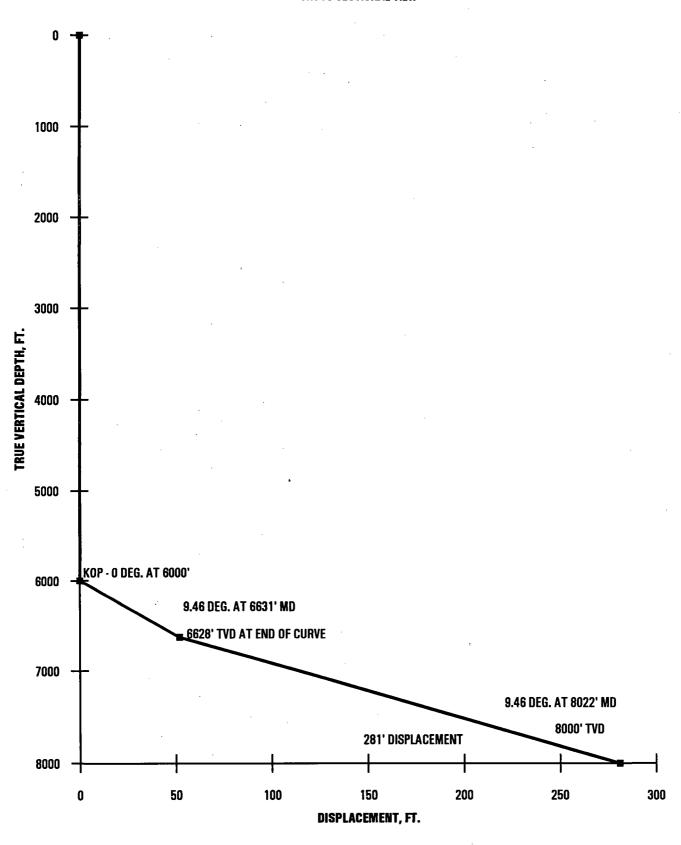
SW/4 SW/4 SECTION 36, T-20-S, R-24-E





#### **INDIAN HILLS STATE COM. 8**

**CROSS-SECTIONAL VIEW** 





June 22, 1993

Offset Operators (Mailing List Attached) Certified Mail

RE: Request for Waiver
Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico

#### Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Indian Hills State Comm No. 8. Because of topographical constraint relating to the course of South Seven Rivers (Stinking Draw), the well will be directionally drilled from an orthodox surface location 976' FSL and 660' FWL to an orthodox bottom hole location 705' FSL and 731' 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manger Midland Operations Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

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

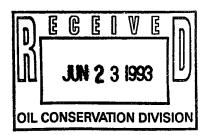
Conoco, Inc. P. O. Box 1959 Midland, TX 79702 Attn: Land Department BHP Petroleum 5847 San Felipe, Suite 3600 Houston, TX 77057 Attn: Land Department



June 22, 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
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



#### Dear Sir:

Marathon Oil Company, respectfully requests administrative approval to directionally drill the Indian Hills State Comm No. 8 in the South Dagger Draw Field from an orthodox surface location of 976' FSL and 660' FWL of Section 36 to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36.

Due to topographical constraints, a drillsite directly above the desired bottomhole location cannot be utilized. South Seven Rivers (Stinking Draw) runs across the location making it unsuitable for a drillsite. A suitable surface location was found at 976' FSL and 660' FWL of section 36. This surface location is still an orthodox location.

Marathon proposes to directionally drill the Indian Hills State Comm No. 8 from the above mentioned location to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36. The well will be drilled vertically to a depth of 6,000', then deviated in a southerly direction at an angle of 9.46°, to reach the proposed bottomhole location. Directional surveys will be run as described in NMOCD Rule 111. Attached is a site plat and topographic map showing the surface and proposed bottomhole locations as well as the surface obstruction. Also attached is a cross-sectional view of the proposed directional drilling plan.

Mr. William J. Lemay, Director
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resource Department
Indian Hills State Comm No. 8
South Dagger Draw Field
Eddy 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

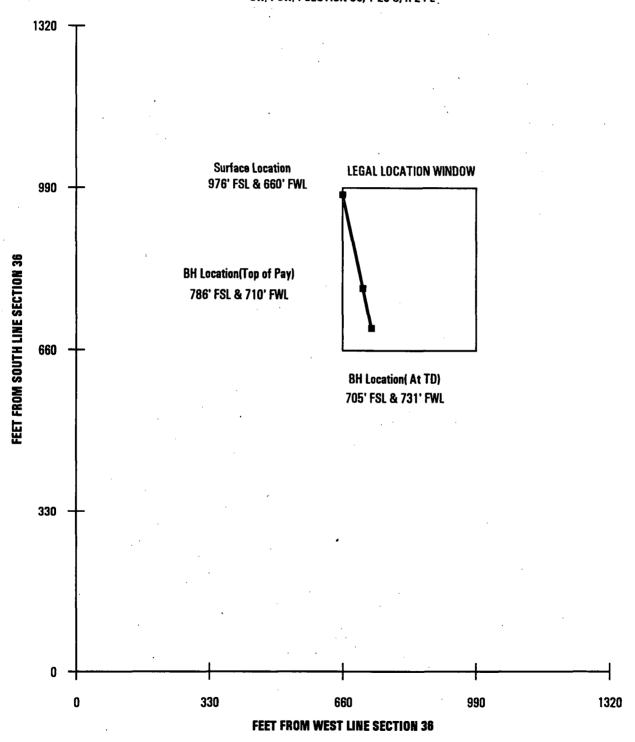
Engineering Manager Midland Operations

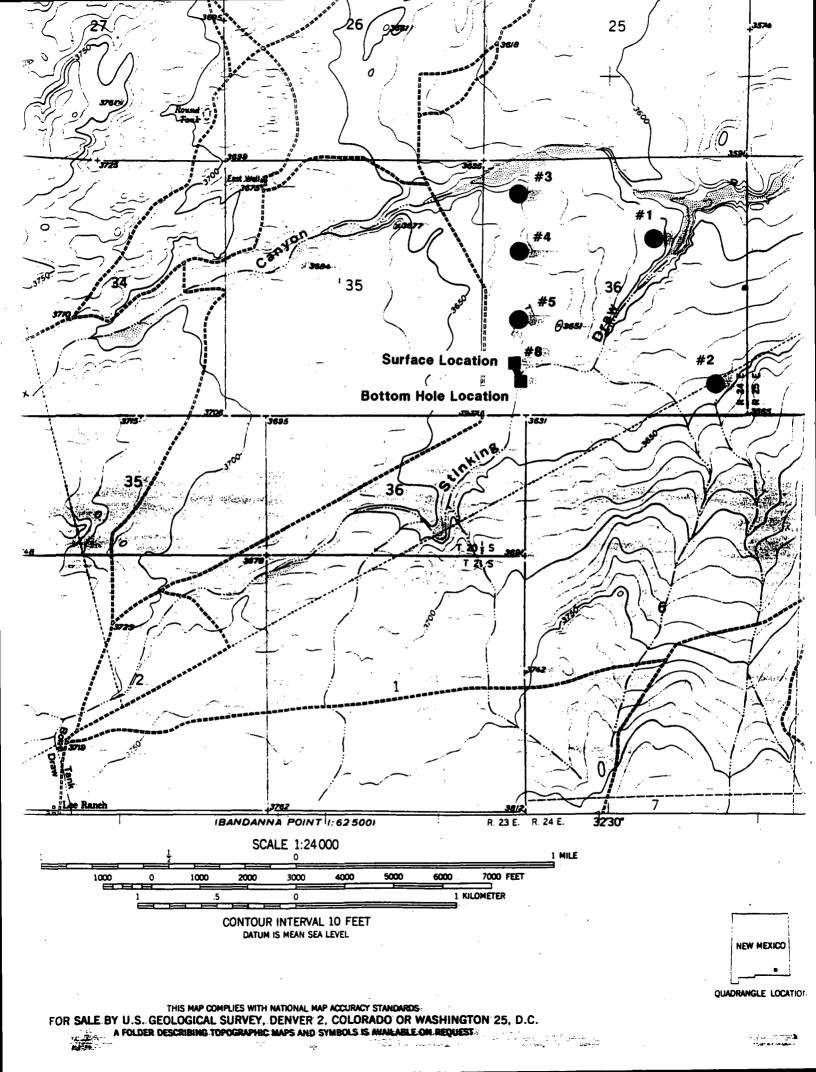
xc:

- R. A. Biernbaum
- R. J. Folse
- T. C. Lowry
- V. G. Odorisio
- C. T. Pearce
- D. R. Petro
- R. F. Unger

# INDIAN HILLS STATE COM. 8

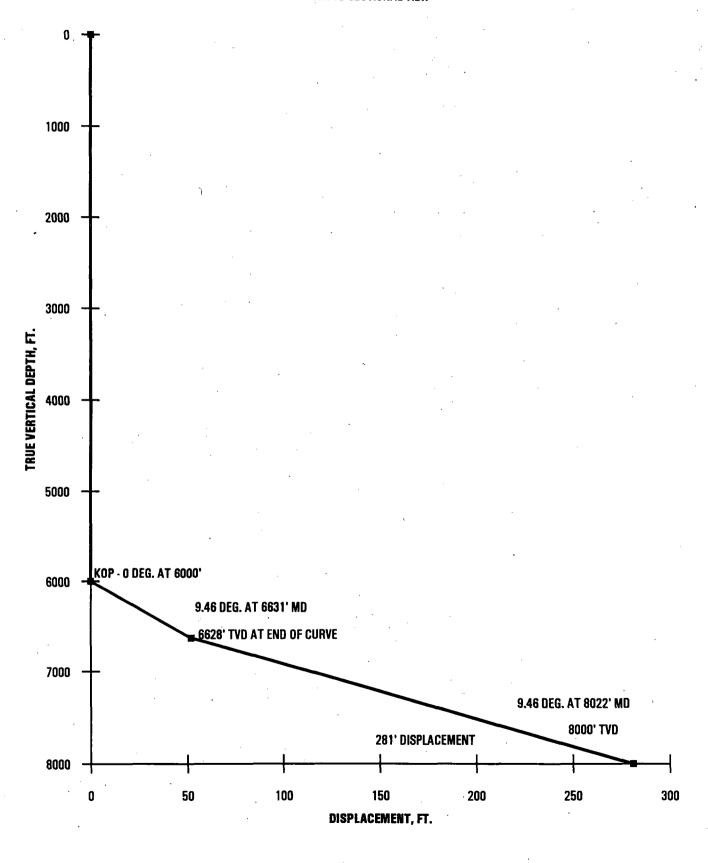
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# **INDIAN HILLS STATE COM. 8**

**CROSS-SECTIONAL VIEW** 





June 22, 1993

Offset Operators (Mailing List Attached) Certified Mail

RE: Request for Waiver
Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico

#### Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Indian Hills State Comm No. 8. Because of topographical constraint relating to the course of South Seven Rivers (Stinking Draw), the well will be directionally drilled from an orthodox surface location 976' FSL and 660' FWL to an orthodox bottom hole location 705' FSL and 731' 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manger Midland Operations Offset Operators
Request for Waiver
Indian Hills State comm No. 8
South Dagger Draw Field
Eddy County, New Mexico
Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

COMPANY:	<del></del> .		 		_
SIGNED:			 		_
TITLE:			 	·	_
DATE:		·	 		_

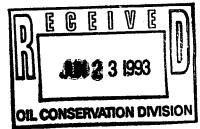
Conoco, Inc. P. O. Box 1959 Midland, TX 79702 Attn: Land Department BHP Petroleum 5847 San Felipe, Suite 3600 Houston, TX 77057 Attn: Land Department



June 22, 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
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



#### Dear Sir:

Marathon Oil Company, respectfully requests administrative approval to directionally drill the Indian Hills State Comm No. 8 in the South Dagger Draw Field from an orthodox surface location of 976' FSL and 660' FWL of Section 36 to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36.

Due to topographical constraints, a drillsite directly above the desired bottomhole location cannot be utilized. South Seven Rivers (Stinking Draw) runs across the location making it unsuitable for a drillsite. A suitable surface location was found at 976' FSL and 660' FWL of section 36. This surface location is still an orthodox location.

Marathon proposes to directionally drill the Indian Hills State Comm No. 8 from the above mentioned location to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36. The well will be drilled vertically to a depth of 6,000', then deviated in a southerly direction at an angle of 9.46°, to reach the proposed bottomhole location. Directional surveys will be run as described in NMOCD Rule 111. Attached is a site plat and topographic map showing the surface and proposed bottomhole locations as well as the surface obstruction. Also attached is a cross-sectional view of the proposed directional drilling plan.

Mr. William J. Lemay, Director New Mexico Oil Conservation Division Energy, Minerals and Natural Resource Department Indian Hills State Comm No. 8 South Dagger Draw Field Eddy 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc: R. A. Biernbaum

R. J. Folse

T. C. Lowry

V. G. Odorisio

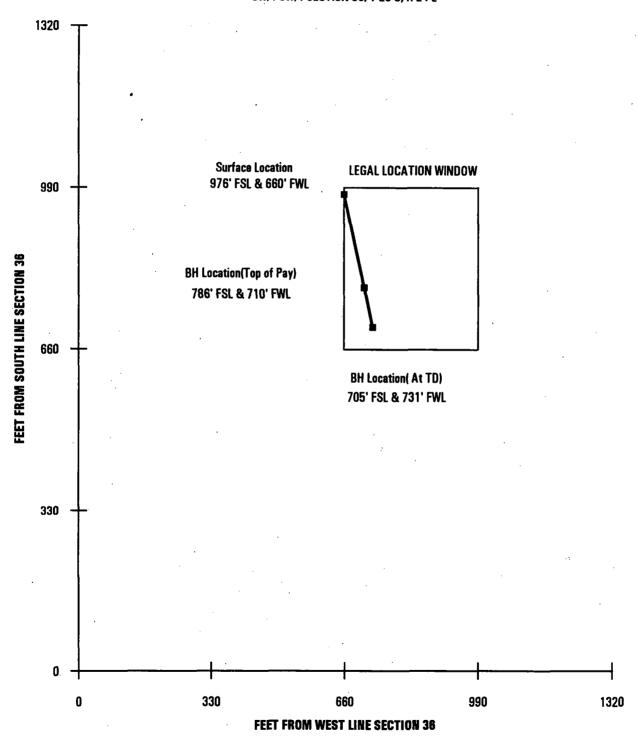
C. T. Pearce

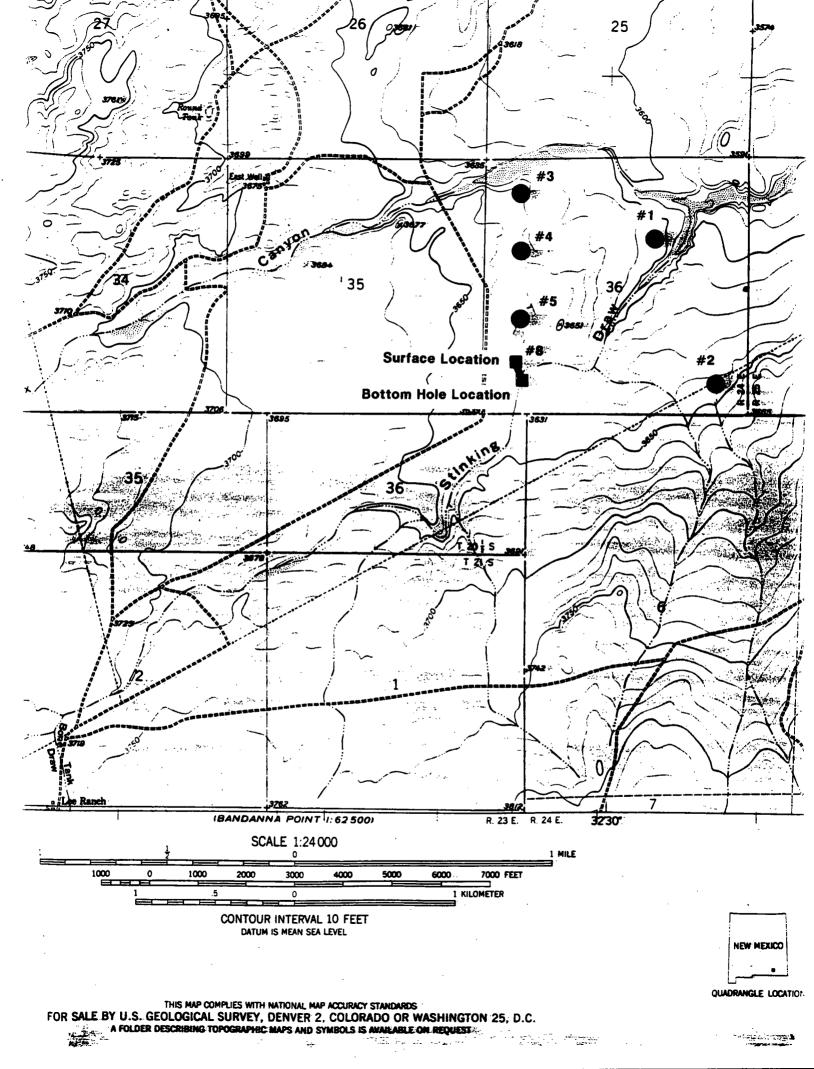
D. R. Petro

R. F. Unger

## **INDIAN HILLS STATE COM. 8**

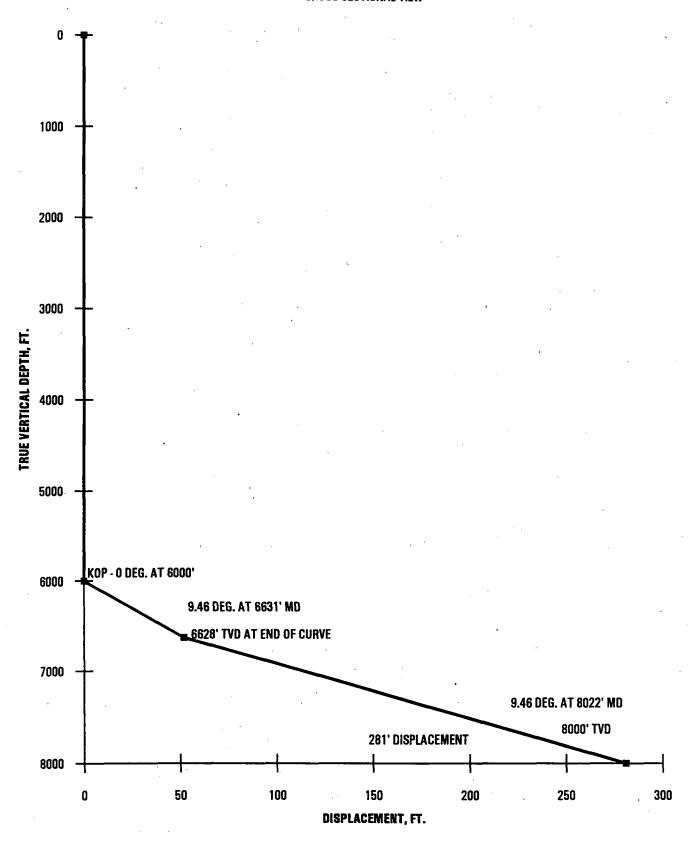
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## **INDIAN HILLS STATE COM. 8**

**CROSS-SECTIONAL VIEW** 





June 22, 1993

Offset Operators (Mailing List Attached) Certified Mail

RE: Request for Waiver
Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico

## Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Indian Hills State Comm No. 8. Because of topographical constraint relating to the course of South Seven Rivers (Stinking Draw), the well will be directionally drilled from an orthodox surface location 976' FSL and 660' FWL to an orthodox bottom hole location 705' FSL and 731' 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manger Midland Operations

Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

COMPANY:	 · · · · · · · · · · · · · · · · · · ·	
SIGNED:		·
TITLE:	 ·	
DATE:		

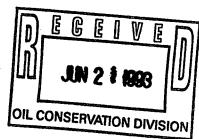
Conoco, Inc. P. O. Box 1959 Midland, TX 79702 Attn: Land Department BHP Petroleum 5847 San Felipe, Suite 3600 Houston, TX 77057 Attn: Land Department



June 18, 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
Indian Hills State Comm No.
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



## Dear Sir:

Marathon Oil Company, respectfully requests administrative approval to directionally drill the Indian Hills State Comm No. 7 in the South Dagger Draw Field from an orthodox surface location of 976' FSL and 660' FWL of Section 36 to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36.

Due to topographical constraints, a drillsite directly above the desired bottomhole location cannot be utilized. South Seven Rivers (Stinking Draw) runs across the location making it unsuitable for a drillsite. A suitable surface location was found at 976' FSL and 660' FWL of section 36. This surface location is still an orthodox location.

Marathon proposes to directionally drill the Indian Hills State Comm No. 7 from the above mentioned location to an orthodox bottomhole location 705' FSL and 731' FWL of Section 36. The well will be drilled vertically to a depth of 6,000', then deviated in a southerly direction at an angle of 9.46°, to reach the proposed bottomhole location. Directional surveys will be run as described in NMOCD Rule 111. Attached is a site plat and topographic map showing the surface and proposed bottomhole locations as well as the surface obstruction. Also attached is a cross-sectional view of the proposed directional drilling plan.

Mr. William J. Lemay, Director
New Mexico Oil Conservation Division
Energy, Minerals and Natural Resource Department
Indian Hills State Comm No. 7
South Dagger Draw Field
Eddy 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

J. M. Dipton
T. N. Tipton

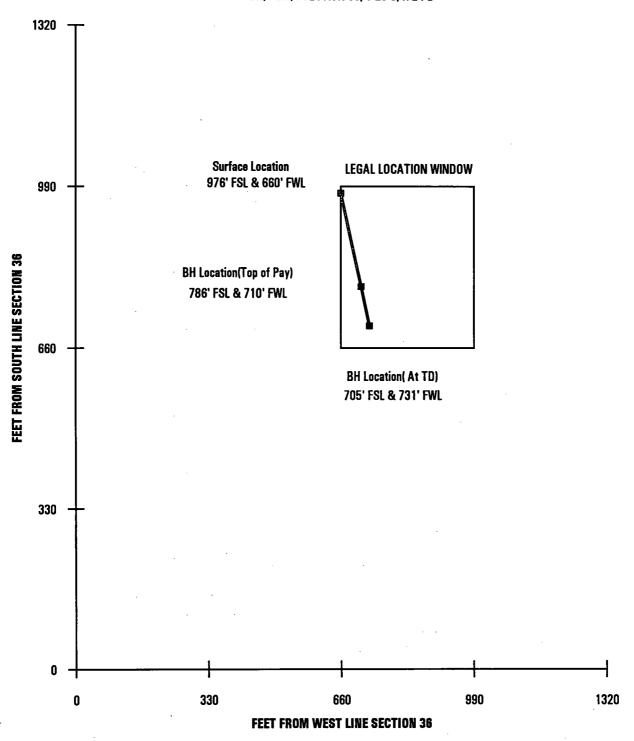
Engineering Manager Midland Operations

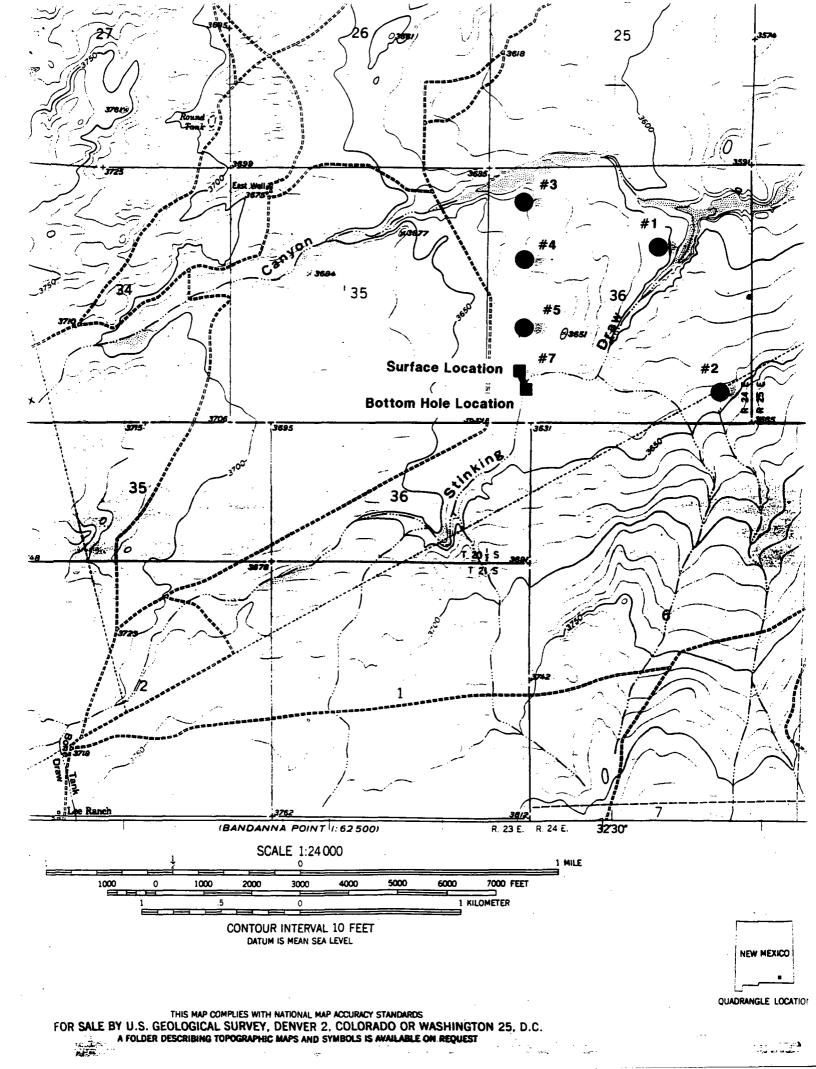
xc:

- R. A. Biernbaum
- R. J. Folse
- T. C. Lowry
- V. G. Odorisio
- C. T. Pearce
- D. R. Petro
- R. F. Unger

# INDIAN HILLS STATE COM. 7

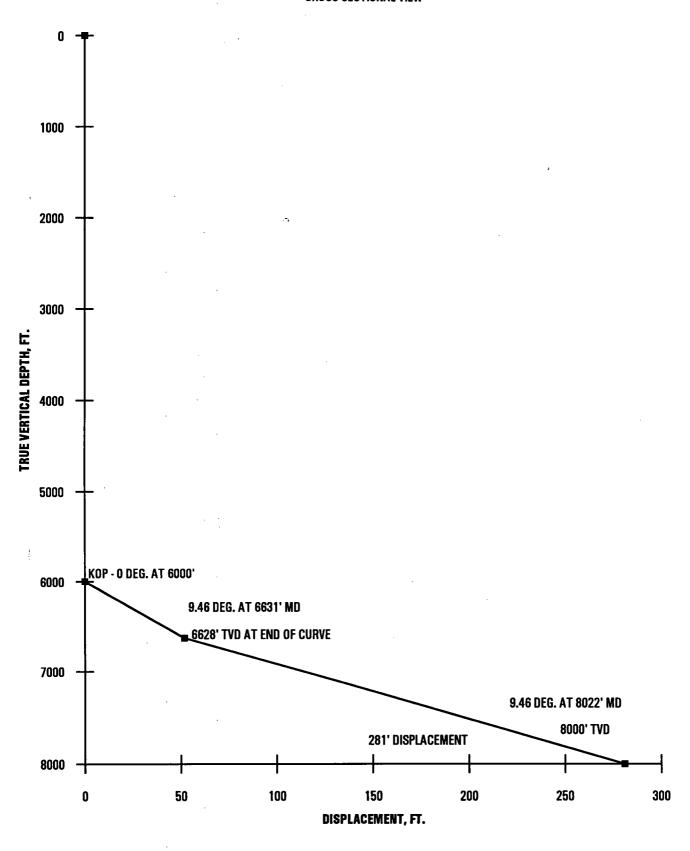
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## **INDIAN HILLS STATE COM. 7**

**CROSS-SECTIONAL VIEW** 

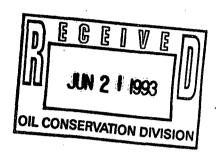




June 18, 1993

Offset Operators (Mailing List Attached) Certified Mail

RE: Request for Waiver
Application of Marathon Oil Company
For Administrative Approval
For Directional Drilling
Indian Hills State Comm No. 7
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



## Gentlemen:

Please find attached Marathon Oil Company's Application for administrative approval for the directional drilling of the Indian Hills State Comm No. 7. Because of topographical constraint relating to the course of South Seven Rivers (Stinking Draw), the well will be directionally drilled from an orthodox surface location 976' FSL and 660' FWL to an orthodox bottom hole location 705' FSL and 731' 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 V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

J.M. Inton

Engineering Manger Midland Operations

Offset Operators Request for Waiver Indian Hills State comm No. 7 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 7 well in the South Dagger Draw Field is hereby waived.

COMPANY:			 	
SIGNED:	<del></del>	· · · · · · · · · · · · · · · · · · ·		
TITLE:			 	<u>.</u>
DATE:			 <u>.</u>	

Conoco, Inc. P. O. Box 1959 Midland, TX 79702 Attn: Land Department BHP Petroleum 5847 San Felipe, Suite 3600 Houston, TX 77057 Attn: Land Department



July 12, 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
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



## Dear Sir:

Please find attached copy of Waiver of Objection from offset operator, Graham Resources, for Marathon's application to directionally drill the Indian Hills State Comm No. 8. Conoco Inc.'s 20 day waiting period is scheduled to expire on July 14, 1993. Please notify as soon as administrative approval to drill is granted.

Should you have any questions or require further information, please contact V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc;

R. A. Biernbaum

V. G. Odorisio

T. C. Lowry

D. R. Petro

Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

SIGNED: Graham Royalty Ltd.

SIGNED: Churt

TITLE: Exploitation Manager

DATE: 7/9/93

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Houston, TX 77060	131	Express Mail Return Receipt for
	H813	Merchandise
Attn: Jason Sizenbie	D 8	7. Date of Delivery
5: Signature (Addressee)	Snow	8. Addresser's Address Only if request and fee is paid
S. Signature (Agent)		
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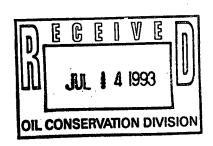
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5. Signature (Addressee)	8. Addresses, Address (Only if requeste
	gin icatarham is 1642
6. Signet()e (Agent)	



July 12, 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
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



### Dear Sir:

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Should you have any questions or require further information, please contact V. G. Odorisio at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc:

R. A. Biernbaum

V. G. Odorisio

T. C. Lowry

D. R. Petro

1 · ·

Offset Operators Request for Waiver Indian Hills State comm No. 8 South Dagger Draw Field Eddy County, New Mexico Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

SIGNED: Chante

TITLE: Exploitable Manager

DATE: 7/9/93

Complete items 3, 4 Print your name end etum this card to you loss not permit. Write "Return Recei	address on the revers	e of this form so	it if space	oliowing services (for an extra ise):  1.  Addressee's Address  2.  Restricted Delivery
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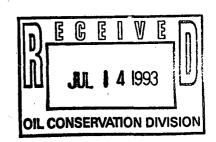
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July 12, 1993 ·

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
For Directional Drilling
Indian Hills State Comm No. 8
976' FSL and 660' FWL
Section 36, T-20-S, R-24-E
South Dagger Draw Field
Eddy County, New Mexico



### Dear Sir:

Please find attached copy of Waiver of Objection from offset operator, Graham Resources, for Marathon's application to directionally drill the Indian Hills State Comm No. 8. Conoco Inc.'s 20 day waiting period is scheduled to expire on July 14, 1993. Please notify as soon as administrative approval to drill is granted.

Should you have any questions or require further information, please contact  $V.\ G.\ Odorisio$  at (915) 682-1626, extension 8262.

Sincerely,

T. N. Tipton

Engineering Manager Midland Operations

xc:

R. A. Biernbaum

V. G. Odorisio

T. C. Lowry

D. R. Petro

Offset Operators
Request for Waiver
Indian Hills State comm No. 8
South Dagger Draw Field
Eddy County, New Mexico
Page No. 2

Objection to the application of Marathon Oil Company for administrative approval for the directional drilling of its Indian Hills State Comm No. 8 well in the South Dagger Draw Field is hereby waived.

SIGNED: Graham Royalty Ltd.

SIGNED: Exploitable Manager

DATE: 7/9/93

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(GENERAL RULES AND REGULATIONS - ASSOCIATED OIL AND GAS POOLS - Cont'd.)

TOCITO DOME-PENNSYLVANIAN "D" ASSOCIATED POOL San Juan County, New Mexico

Order No. R-5353, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Associated Oil and Gas Pools in Northwest and Southeast New Mexico, for the Tocito Dome-Pennsylvanian "D" Associated Pool, San Juan County, New Mexico, February 1, 1977.

(Order No. R-5353 supersedes Order No. R-2758, creating and adopting temporary rules for the Tocito Dome-Pennsylvanian "D" Pool, San Juan County, New Mexico, August 3, 1964, as amended by Order No. R-2758-A, September 30, 1964, Order No. R-2758-B, April 1, 1965, and Order No. R-2758-C, August 16, 1965.)

- RULE 2. (a) A standard oil proration unit shall be 160 acres. A standard gas proration unit shall be 320 acres.
- RULE 2. (b) Oil wells shall be located within 150 feet of the center of the quarter-quarter section.

Gas wells shall be located within 150 feet of the center of the quarter-quarter section.

RULE 5. (a) A well shall be classified as a gas well if it has a gas-liquid ratio of 20,000 or more cubic feet of gas per barrel of liquid hydrocarbons. A well shall be classified as an oil well if it has a gas-liquid ratio of less than 20,000 cubic feet of gas per barrel of liquid hydrocarbons.

(General Pool Rules also apply unless in conflict with these Special Pool Rules.)

#### BLUITT-SAN ANDRES ASSOCIATED POOL Roosevelt County, New Mexico

Order No. R-5353, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Associated Oil and Gas Pools in Northwest and Southeast New Mexico, for the Bluitt-San Andres Associated Pool, Roosevelt County, New Mexico, February 1, 1977.

(Order No. R-5353 supersedes Order No. R-1670-I, abolishing the Bluitt-San Andres Gas and East Bluitt-San Andres Oil Pools and creating and adopting operating rules for the Bluitt-San Andres Associated Pool, Roosevelt County, New Mexico, July 23, 1969, as amended by Order No. R-4367, August 30, 1972, and Order No. R-4583, August 1, 1973.)

- RULE 2. (a) A standard oil proration unit shall be 80 acres. A standard gas proration unit shall be 320 acres.
- RULE 2. (b) Oil wells shall be located within 150 feet of the center of the quarter-quarter section.

Gas wells shall be located not closer than 990 feet to the quarter section line nor closer than 330 feet to any quarter-quarter section line.

(General Pool Rules also apply unless in conflict with these Special Pool Rules.)

SOUTHEAST CHAVES QUEEN GAS AREA ASSOCIATED POOL Chaves County, New Mexico

Order No. R-5353, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Associated Oil and Gas Pools in Northwest and Southeast New Mexico, for the Southeast Chaves Queen Gas Area Associated Pool, Chaves County, New Mexico, February 1, 1977.

(Order No. R-5353 supersedes Order No. R-4435, creating and adopting temporary rules for the Southeast Chaves Queen Gas Area, Chaves County, New Mexico, December 1, 1972, as amended by Order No. R-4583, August 1, 1973, Order No. R-4435-A, December 3, 1974, and Order No. R-4435-B, July 6, 1976.)

RULE 2. (a) A standard oil proration unit shall be  $40\,\mathrm{acres}$ . A standard gas proration unit shall be  $320\,\mathrm{acres}$ .

(General Pool Rules also apply unless in conflict with these Special Pool Rules.)

### SOUTH DAGGER DRAW-UPPER PENNSYLVANIAN ASSOCIATED POOL Eddy County, New Mexico

Order No. R-5353, Adopting Special Rules and Regulations, in Addition to the General Rules and Regulations for Associated Oil and Gas Pools in Northwest and Southeast New Mexico, for the South Dagger Draw-Upper Pennsylvanian Associated Pool, Eddy County, New Mexico, February 1, 1977, as Amended by Order No. R-5353-L, November 1, 1990, and Order No. R-5353-L-1, April 1, 1991.

(Order No. R-5353 supersedes Order No. R-4637, creating and adopting temporary rules for the South Dagger Draw-Upper Pennsylvanian Associated Pool, Eddy County, New Mexico, October 1, 1973, as amended by Order No. R-4637-A, October 21, 1975.)

Order No. R-5353-A, March 15, 1977, makes permanent the special rules adopted in Order No. R-5353.

Order No. R-5353-L-2, effective December 17, 1992, continues in full force and effect the rules adopted in Order No. R-5353, as amended.

- RULE 2. (a) (As Amended by Order No. R-5353-L, November 1, 1990) A standard oil proration unit shall be 320 acres. A standard gas proration unit shall be 320 acres.
- RULE 2. (b) (As Amended by Order No. R-5353-L, November 1, 1990) Each well shall be located no nearer than 660 feet to the nearest side boundary of the tract, nor nearer than 660 feet to the nearest end boundary of the tract, nor closer than 330 feet to any quarter-quarter section of subdivision inner boundary.
- RULE 6. (As Amended by Order No. R-5353-L, November 1, 1990) The limiting gas-oil ratio shall be 10,000 cubic feet of gas for each barrel of oil produced.
- RULE 22. (As Amended by Order No. R-5353-L, November 1, 1990, and Order No. R-5353-L-1, April 1, 1991.) The special depth bracket allowable for a 320-acre proration unit shall be 1400 barrels of oil per day. All or any part of the allowable may be produced by a single well or by two or more wells on the unit. However, total oil allowable assigned to a 320-acre unit shall not exceed 1400 barrels per day.

(General Pool Rules also apply unless in conflict with these Special Pool Rules.)

COUNTY Eddy

POOL South Dagger Draw - Upper Pennsylvanian, Assoc.

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EXT: 5/2 SEC. 12 (R-9473, 4-1-91) Ext: 5/2 Sec. 9, 5/2 Sec. 10, All Sec. 13 (R-9545, >-1-91)

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