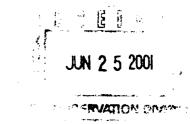


P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

June 21, 2001



Oil Conservation Division Attn: Mr. Michael E. Stogner 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Indian Hills Unit Well No. 1 Unorthodox Location

Mr. Stogner:

This letter is being sent per our phone conversation of June 13, 2001. As we discussed, the Indian Hills Unit Well No. 1, API No. 30-015-10066, was drilled and completed in June, 1963. The location was originally surveyed November 21, 1962, by Joe Hewitt, Jr., at 660' FSL and 660' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico, please see attached copy of Form C-128. The well was plugged and the location abandoned in August, 1992. A decision was made to re-enter this well so the location was re-surveyed by Mr. Ronald J. Eidson, of John West Engineering, on November 4, 1997, see attached copy of Form C-102. According to information obtained from Mr. Eidson, the original survey of this area was done in 1882. The Federal Government ordered a re-survey of this area which was conducted from November 16, 1966 to January 12, 1967. Mr. Eidson said it took the surveyors two months to re-survey Section 21 and, in the process, the corners of this section were moved. Due to this re-survey, the legal description for this location is now 416' FSL and 176' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico.

No application for an unorthodox location was ever filed after the re-survey or prior to the recompletion of this well. Please determine if such an application is required considering the circumstances. Thank you for your help in this matter and for taking the time to answer my questions last week when we spoke on the phone.

Sincerely,

Ginny Larke

Engineer Technician

Attachments

Ginny Larke

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DISTRICT I P.O. Box 1980, Hobbs, NM 88241-1980



State of New Mexico Energy, Minerals and Natural Resources Departm

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III 1000 Rio Brazos Rd., Aztec, NM 67410

DISTRICT IV P.O. BOX 2088, SANTA PE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

			WELL LO	CATION	AND ACREA	AGE DEDICATI	ON PLAT						
API Number				Pool Code Pool Name									
Property Code				Property Name				Well Number					
				INDIAN HILLS UNIT				1					
OGRID No.				Operator Name MARATHON OIL COMPANY				Elevation 3670					
-					Surface Loc	ation							
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County				
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See Also Order Nov. R-4922 R-9922-A R-9972-B L-8822-C

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

NOMENCLATURE
CASE NO. 12006
ORDER NO. R-9922-D

APPLICATION OF MARATHON OIL COMPANY, YATES PETROLEUM CORPORATION, ORYX ENERGY COMPANY, DEVON ENERGY CORPORATION (NEVADA) AND SANTA FE ENERGY RESOURCES, INC. FOR THE EXPANSION OF THE INDIAN BASIN-UPPER PENNSYLVANIAN ASSOCIATED POOL AND THE CONCOMITANT CONTRACTION OF THE INDIAN BASIN-UPPER PENNSYLVANIAN GAS POOL, APPROVAL OF FOUR NON-STANDARD 320-ACRE GAS PRORATION UNITS, AN UNORTHODOX GAS WELL LOCATION, AND APPORTIONMENT OF GAS ALLOWABLES, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on July 9, 1998, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this <u>7th</u> day of December, 1998, the Division Director, having considered the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter.
- (2) The Indian Basin-Upper Pennsylvanian Gas Pool is a prorated gas pool currently governed by the "General Rules for the Prorated Gas Pools of New Mexico/Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Gas Pool," as promulgated by Division Order No. R-8170, as amended, which require standard 640-acre spacing and proration units ("GPU") with wells to be located no closer than 1650 feet from the outer boundary of the GPU nor closer than 330 feet from any governmental quarter-quarter section line or subdivision inner boundary. The current gas allowable for the Indian Basin-Upper Pennsylvanian Gas Pool is approximately 6.5 MMCFG per day per GPU.

Page 2

(3) The Indian Basin-Upper Pennsylvanian (Prorated) Gas Pool currently comprises the following described area in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 3: W/2 Section 4: All Sections 8 and 9: All Section 10: W/2 Section 15: W/2 Sections 16 through 30: A11 Sections 32 through 36: All

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 19 through 21: All Sections 28 through 32: All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Sections 1 through 5: All Sections 8 through 17: All Section 21: N/2Section 22: All.

- The Indian Basin-Upper Pennsylvanian Associated Pool is currently governed by the "Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Associated Pool," as promulgated by Division Order No. R-9922, as amended, which require standard 320-acre oil and gas spacing units with wells to be located no closer than 660 feet from the outer boundary of the proration unit nor closer than 330 feet from any quarter-quarter section line or subdivision inner boundary, and with no more than one well per 80-acre tract to be drilled or produced on a standard proration unit. The special depth bracket allowable for the pool is 1,400 barrels of oil per day. The limiting gas-oil ratio for the pool is 7,000 cubic feet of gas per barrel of oil, which results in a casinghead gas allowable of 9.8 MMCFG per day.
- The Indian Basin-Upper Pennsylvanian Associated Pool currently comprises the following described area in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Section 27: S/2 Sections 33 and 34:

All

Nomenclature Case No. 12006 Order No. R-9922-D

Page 3

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Sections 2 through 10:

All

Section 11:

N/2

Sections 16 and 17:

All.

The applicants, Marathon Oil Company, Yates Petroleum Corporation, Oryx Energy Company, Devon Energy Corporation (Nevada), and Santa Fe Energy Resources, Inc. seek an order expanding the Indian Basin-Upper Pennsylvanian Associated Pool in Eddy County, New Mexico to include:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Section 18:

All

AND THE concomitant contraction of the Indian Basin-Upper Pennsylvanian Gas Pool by deleting therefrom:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

- (7) In conjunction with the proposed adjustment to the boundaries of the two subject pools, the applicants seek to establish the following four 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool within Section 36, Township 21 South, Range 23 East, NMPM, and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM, Eddy County, New Mexico:
 - (A) the W/2 of Section 36, comprising 320 acres, which is to be dedicated to the existing Lowe State Gas Com Well No. 1 (API No. 30-015-10342), located 1995 feet from the North line and 1712 feet from the West line (Unit F) of Section 36;
 - (B) the W/2 equivalent of Section 1, comprising 336.57 acres, on which there is currently no well;
 - (C) the W/2 of Section 12, comprising 320 acres, which is to be dedicated to the existing Smith Federal Gas Com Well No. 2 (API No. 30-015-26834) located 2049 feet from the North line and 480 feet from the West line (Unit E) of Section 12; and
 - (D) the W/2 of Section 13, comprising 320 acres, which is to be dedicated to the HOC Federal Gas Com Well No. 2 (API No. 30-015-26939) located 330 feet from the North and West lines (Unit D) of Section 13.
- (8) The proposed acreage and pool rededication results in the Lowe State Gas Com Well No. 1 being only 928 feet from the outer boundary of its newly designated 320-acre gas proration unit. The resulting unorthodox gas well location for this well requires proper authorization pursuant to the appropriate rules and regulations governing the Indian Basin-Upper Pennsylvanian Gas Pool.
- (9) On behalf of the applicants, Marathon Oil Company presented geologic, petroleum engineering, and oil and gas mineral ownership and land evidence, which demonstrates that this application should be granted and which is summarized as follows:
 - (A) In the Indian Basin area, the Upper Pennsylvanian interval contains multiple compartmentalized reservoirs, which are productive of oil, gas and water from several dolomitized horizons from the top of the Cisco formation to

the base of the Canyon formation.

- (B) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Gas Pool, including the extension area, and the Indian Basin-Upper Pennsylvanian Associated Pool were originally developed with flowing gas wells on 640-acre gas spacing such that, once the gas wells stopped flowing as a result of water encroachment, the wells were abandoned.
- (C) The Indian Basin-Upper Pennsylvanian Gas Pool attained its maximum extension in the 1970s and, since then, water encroachment has advanced from east to west slowly watering out the flowing gas wells. Currently, flowing gas production occurs west of a structural contour line at minus 3300 feet subsea elevation.
- (D) In 1992, Yates Petroleum Corporation reentered and recompleted the Hickory "ALV" Federal Well No 1 (API No. 30-015-10566), located 1650 feet from the North and West lines (Unit F) of Section 17, Township 22 South, Range 24 East, NMPM. Using the same high capacity pumps used in the nearby South Dagger Draw-Upper Pennsylvanian Associated Pool, Yates was able to achieve rates of 400 BOPD, 500 MCFGPD and 1200 BWPD in a former Indian Basin-Upper Pennsylvanian Gas Pool well which had previously been depleted. Thereafter the Division entered Order No. R-9922 and created the Indian Basin-Upper Pennsylvanian Associated Pool.
- (E) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are in a structural feature separated from the Indian Basin-Upper Pennsylvanian Gas Pool by a structural saddle at the top of the Cisco at a subsea elevation of minus 3500 feet. New wells located within 320-care spacing units in the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are now producing or have the potential to produce oil and gas that was not previously recovered when this area was originally developed as part of the Indian Basin-Upper Pennsylvanian Gas Pool.

- (F) Current oil and gas production from the Cisco/Canyon formations in the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area required extensive formation "de-watering." Hydrocarbons are mobilized by continuous movement of large volumes of water with artificial lift.
- (G) Pressure data demonstrates that:
 - (i) the Indian Basin-Upper Pennsylvanian Associated Pool, with a pressure on average of 1600 psi, is not in pressure communication with the Indian Basin-Upper Pennsylvanian Gas Pool, which has a current pressure on average of 500 psi; and
 - (ii) wells in the extension area of Township 21 South, Range 24 East, NMPM, have a pressure related to the Indian Basin-Upper Pennsylvanian Associated Pool.
- (H) Production data demonstrates that:
 - (i) there are no flowing gas wells in the extension area; and
 - (ii) old flowing gas wells in the extension area were abandoned when they watered out and new wells are attaining oil and gas production by using high capacity pumps.
- (I) The division of Section 36, Township 21 South, Range 23 East, NMPM and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM (the transition area) into non-standard 320-acre, more or less, gas proration and spacing units will provide an equitable "buffer" between the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Upper Pennsylvanian Associated Pool because:

- (i) wells have been located or can be located such that drainage by wells in the Indian Basin-Upper Pennsylvanian Associated Pool can be met with counter drainage from wells located or to be located on the eastern side of each of the four 320-acre, more or less, non-standard gas spacing and proration units in the Indian Basin-Upper Pennsylvanian Gas Pool provided that wells located on the eastern side of these units can be no closer than 660 feet from the eastern boundary, which is also the setback requirement for wells in the Indian Basin-Upper Pennsylvanian Associated Pool; and
- (ii) wells located in the Indian Basin-Upper Pennsylvanian Gas Pool will not suffer unfair competition from wells located or to be located in these four, non-standard gas proration units because allowables will be apportioned based upon the gas proration system adopted for the Indian Basin-Upper Pennsylvanian Gas Pool.
- (J) The granting of this application should not impair the correlative rights:
 - (i) of any working interest owner within any of the existing 640-acre GPUs because there are voluntary joint operating agreements requiring that all those owners continue to share in production and pay costs from the new 320-acre spacing units on the same proportional basis as in the original 640-acre unit;
 - (ii) of any overriding royalty interest owner or the federal royalty under a federal oil and gas lease within any of the existing 640-

acre GPUs because there are federal communitization agreements requiring that all those owners continue to share in production from the new 320-acre spacing units on the same proportional basis as in the original 640-acre unit:

- (iii) under Section 32, Township 21 South, Range 24 East, NMPM, which consists of two 320-acre State of New Mexico leases and is operated by Marathon Oil Company, because there are no overriding royalty owners and the State Land Office desires that the communitization agreement for the existing 640-acre proration unit terminate and be replaced by two 320-acre proration units coextensive with the two State leases; and,
- (iv) under Section 36, Township 21 South, Range 23 East, NMPM, which consists of two State of New Mexico leases and is operated by ORYX Energy Company, because there are no overriding royalty owners and the State Land Office desires that the existing 640-acre communitization agreement terminate and be replaced by two 320-acre communitization agreements.
- (10) The evidence and testimony presented at the hearing further indicate that:
 - (A) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are a single structural feature such that wells located in this area should be subject to the same special rules and regulations.
 - (B) Geologic and petroleum engineering evidence demonstrate that substantial volumes of oil and gas, which otherwise would not be produced, can be economically recovered from the extension area if that area is subject to the

current rules applicable to the Indian Basin-Upper Pennsylvanian Associated Pool, thereby preventing waste.

- (C) Making the extension area part of the Indian Basin-Upper Pennsylvanian Associated Pool will afford the opportunity to increase the de-watering process in the reservoir and improve recovery efficiencies for both oil and gas.
- (D) The adoption of the four 320-acre, more or less, non-standard gas proration and spacing units will establish a temporary "buffer" or transition area between the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Upper Pennsylvanian Associated Pool, which at this time will establish equity and protect correlative rights.
- (11) The applicants are all of the operators of wells in the extension area and they have met and unanimously agreed upon this application.
- (12) In accordance with Division notification rules, notification of this application and request for hearing has been sent to the owners within the proposed expansion area and to the offset operators to each non-standard gas proration and spacing unit and no objections have been received by either the Division or Marathon Oil Company, which sent out these notices.
- (13) In order to prevent waste, to prevent the drilling of unnecessary wells, to protect correlative rights and provide for a more orderly development of the Cisco/Canyon formations, it is necessary to do the following:
 - (A) contract the Indian Basin-Upper Pennsylvanian Gas Pool and expand the Indian Basin-Upper Pennsylvanian Associated Pool as described in Finding Paragraph No. 6;
 - (B) approve the four non-standard 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool as described in Finding Paragraph No. 7; and,
 - (C) approve an unorthodox gas well location for the Lowe State Gas Com Well No. 1 located 1995 feet from the North line and 1712 feet from the West line (Unit K) of said Section

36.

- (14) Marathon Oil Company, Santa Fe Energy Resources, Inc. and ORYX Energy Corporation were present at the hearing and Marathon Oil Company, on behalf of the applicants, provided technical land, geologic and engineering testimony concerning the reservoir and, these pools.
- (15) No other operator and/or interest owner appeared at the hearing in opposition to the application.
- (16) Approval of the applicant's request will allow the interest owners the opportunity to economically recover their share of the oil and gas in the subject pools, will not reduce ultimate recovery from the subject pools, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The Indian Basin-Upper Pennsylvanian Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby contracted by the deletion of the following described area:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

(2) Concomitantly, the Indian Basin-Upper Pennsylvanian Associated Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein the following described area:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

Nomenclature Case No. 12006 Order No. R-9922-D

Page 11

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Section 18:

All.

- (3) The following four 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool within Section 36, Township 21 South, Range 23 East, and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM, Eddy County, New Mexico, are hereby approved:
 - (A) the W/2 of Section 36, comprising 320 acres, which is to be dedicated to the existing Lowe State Gas Com Well No. 1 (API No. 30-015-10342), located at an unorthodox gas well location for the 320-acre GPU, 1995 feet from the North line and 1712 feet from the West line (Unit F) of Section 36;
 - (B) the W/2 of Section 1, comprising 336.57 acres, on which there is currently no well;
 - (C) the W/2 of Section 12, comprising 320 acres, which is to be dedicated to the existing Smith Federal Gas Com Well No. 2 (API No. 30-015-26834) located 2049 feet from the North and 480 feet from the West lines (Unit E) of Section 12; and,
 - (D) the W/2 of Section 13, comprising 320 acres, which is to be dedicated to the HOC Federal Gas Com Well No. 2 (API No. 30-015-26939) located 330 feet from the North line and 330 feet from the West line (Unit D) of Section 13.
- (4) Any future well located in any of these four non-standard gas proration and spacing units no closer than 660 feet to the eastern boundary of the unit shall be considered

to be at a standard location.

- (5) The apportionment of gas allowables for the four non-standard GPU's shall be accomplished by applying a 0.5 acreage factor to each of the non-standard GPU's.
- (6) An unorthodox gas well location for the following well in the Indian Basin-Upper Pennsylvanian Gas Pool, which became unorthodox as a result of the change in pool boundary, is hereby approved: Lowe State Gas Com Well No. 1 located 1995 feet from the North line and 1712 feet from the West line and of Section 36, Township 21 South, Range 23 East, NMPM, Eddy County, New Mexico.
- (7) The locations of all wells presently drilling to or completed in the Indian Basin-Upper Pennsylvanian Associated Pool within this expansion area are hereby approved; the operator of any well having an unorthodox location shall notify the Artesia District Office of the Division in writing of the name and location of the well within thirty days from the date of this order.
- (8) Pursuant to Paragraph A of Section 70-2-18, NMSA (1978), contained in Chapter 271, Laws of 1969, existing wells in the Indian Basin-Upper Pennsylvanian Associated Pool within this expansion area shall have dedicated thereto 320 acres; or, pursuant to Paragraph C of Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.
- (9) Failure to file new Forms C-102 with the Division dedicating 320 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to being shut-in.
- (10) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DOFF ? Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

SEAL

See Also Order Nos. R-4922 R-9922-A R-9972-B R-8822-C

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> NOMENCLATURE CASE NO. 12006 ORDER NO. R-9922-D

APPLICATION OF MARATHON OIL COMPANY, YATES PETROLEUM CORPORATION, ORYX ENERGY COMPANY, DEVON ENERGY CORPORATION (NEVADA) AND SANTA FE ENERGY RESOURCES, INC. FOR THE EXPANSION OF THE INDIAN BASIN-UPPER PENNSYLVANIAN ASSOCIATED POOL AND THE CONCOMITANT CONTRACTION OF THE INDIAN BASIN-UPPER PENNSYLVANIAN GAS POOL, APPROVAL OF FOUR NON-STANDARD 320-ACRE GAS PRORATION UNITS, AN UNORTHODOX GAS WELL LOCATION, AND APPORTIONMENT OF GAS ALLOWABLES, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on July 9, 1998, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 7th day of December, 1998, the Division Director, having considered the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter.
- (2) The Indian Basin-Upper Pennsylvanian Gas Pool is a prorated gas pool currently governed by the "General Rules for the Prorated Gas Pools of New Mexico/Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Gas Pool," as promulgated by Division Order No. R-8170, as amended, which require standard 640-acre spacing and proration units ("GPU") with wells to be located no closer than 1650 feet from the outer boundary of the GPU nor closer than 330 feet from any governmental quarter-quarter section line or subdivision inner boundary. The current gas allowable for the Indian Basin-Upper Pennsylvanian Gas Pool is approximately 6.5 MMCFG per day per GPU.

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(3) The Indian Basin-Upper Pennsylvanian (Prorated) Gas Pool currently comprises the following described area in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 3: W/2
Section 4: All
Sections 8 and 9: All
Section 10: W/2
Section 15: W/2
Sections 16 through 30: All
Sections 32 through 36: All

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 19 through 21: All Sections 28 through 32: All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Sections 1 through 5:

Sections 8 through 17:

All
Section 21:

N/2
Section 22:

All.

- by the "Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Associated Pool," as promulgated by Division Order No. R-9922, as amended, which require standard 320-acre oil and gas spacing units with wells to be located no closer than 660 feet from the outer boundary of the proration unit nor closer than 330 feet from any quarter-quarter section line or subdivision inner boundary, and with no more than one well per 80-acre tract to be drilled or produced on a standard proration unit. The special depth bracket allowable for the pool is 1,400 barrels of oil per day. The limiting gas-oil ratio for the pool is 7,000 cubic feet of gas per barrel of oil, which results in a casinghead gas allowable of 9.8 MMCFG per day.
- (5) The Indian Basin-Upper Pennsylvanian Associated Pool currently comprises the following described area in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Section 27: S/2
Sections 33 and 34: All



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TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Sections 2 through 10:

All

Section 11:

N/2

Sections 16 and 17:

All.

(6) The applicants, Marathon Oil Company, Yates Petroleum Corporation, Oryx Energy Company, Devon Energy Corporation (Nevada), and Santa Fe Energy Resources, Inc. seek an order expanding the Indian Basin-Upper Pennsylvanian Associated Pool in Eddy County, New Mexico to include:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Section 18:

All

AND THE concomitant contraction of the Indian Basin-Upper Pennsylvanian Gas Pool by deleting therefrom:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

- (7) In conjunction with the proposed adjustment to the boundaries of the two subject pools, the applicants seek to establish the following four 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool within Section 36, Township 21 South, Range 23 East, NMPM, and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM, Eddy County, New Mexico:
 - (A) the W/2 of Section 36, comprising 320 acres, which is to be dedicated to the existing Lowe State Gas Com Well No. 1 (API No. 30-015-10342), located 1995 feet from the North line and 1712 feet from the West line (Unit F) of Section 36;
 - (B) the W/2 equivalent of Section 1, comprising 336.57 acres, on which there is currently no well;
 - (C) the W/2 of Section 12, comprising 320 acres, which is to be dedicated to the existing Smith Federal Gas Com Well No. 2 (API No. 30-015-26834) located 2049 feet from the North line and 480 feet from the West line (Unit E) of Section 12; and
 - (D) the W/2 of Section 13, comprising 320 acres, which is to be dedicated to the HOC Federal Gas Com Well No. 2 (API No. 30-015-26939) located 330 feet from the North and West lines (Unit D) of Section 13.
- (8) The proposed acreage and pool rededication results in the Lowe State Gas Com Well No. 1 being only 928 feet from the outer boundary of its newly designated 320-acre gas proration unit. The resulting unorthodox gas well location for this well requires proper authorization pursuant to the appropriate rules and regulations governing the Indian Basin-Upper Pennsylvanian Gas Pool.
- (9) On behalf of the applicants, Marathon Oil Company presented geologic, petroleum engineering, and oil and gas mineral ownership and land evidence, which demonstrates that this application should be granted and which is summarized as follows:
 - (A) In the Indian Basin area, the Upper Pennsylvanian interval contains multiple compartmentalized reservoirs, which are productive of oil, gas and water from several dolomitized horizons from the top of the Cisco formation to

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the base of the Canyon formation.

- (B) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Gas Pool, including the extension area, and the Indian Basin-Upper Pennsylvanian Associated Pool were originally developed with flowing gas wells on 640-acre gas spacing such that, once the gas wells stopped flowing as a result of water encroachment, the wells were abandoned.
- (C) The Indian Basin-Upper Pennsylvanian Gas Pool attained its maximum extension in the 1970s and, since then, water encroachment has advanced from east to west slowly watering out the flowing gas wells. Currently, flowing gas production occurs west of a structural contour line at minus 3300 feet subsea elevation.
- (D) In 1992, Yates Petroleum Corporation reentered and recompleted the Hickory "ALV" Federal Well No 1 (API No. 30-015-10566), located 1650 feet from the North and West lines (Unit F) of Section 17, Township 22 South, Range 24 East, NMPM. Using the same high capacity pumps used in the nearby South Dagger Draw-Upper Pennsylvanian Associated Pool, Yates was able to achieve rates of 400 BOPD, 500 MCFGPD and 1200 BWPD in a former Indian Basin-Upper Pennsylvanian Gas Pool well which had previously been depleted. Thereafter the Division entered Order No. R-9922 and created the Indian Basin-Upper Pennsylvanian Associated Pool.
- (E) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are in a structural feature separated from the Indian Basin-Upper Pennsylvanian Gas Pool by a structural saddle at the top of the Cisco at a subsea elevation of minus 3500 feet. New wells located within 320-care spacing units in the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are now producing or have the potential to produce oil and gas that was not previously recovered when this area was originally developed as part of the Indian Basin-Upper Pennsylvanian Gas Pool.

- (F) Current oil and gas production from the Cisco/Canyon formations in the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area required extensive formation "de-watering." Hydrocarbons are mobilized by continuous movement of large volumes of water with artificial lift.
- (G) Pressure data demonstrates that:
 - (i) the Indian Basin-Upper Pennsylvanian Associated Pool, with a pressure on average of 1600 psi, is not in pressure communication with the Indian Basin-Upper Pennsylvanian Gas Pool, which has a current pressure on average of 500 psi; and
 - (ii) wells in the extension area of Township 21 South, Range 24 East, NMPM, have a pressure related to the Indian Basin-Upper Pennsylvanian Associated Pool.
- (H) Production data demonstrates that:
 - (i) there are no flowing gas wells in the extension area; and
 - (ii) old flowing gas wells in the extension area were abandoned when they watered out and new wells are attaining oil and gas production by using high capacity pumps.
- (I) The division of Section 36, Township 21 South, Range 23 East, NMPM and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM (the transition area) into non-standard 320-acre, more or less, gas proration and spacing units will provide an equitable "buffer" between the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Upper Pennsylvanian Associated Pool because:

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- (i) wells have been located or can be located such that drainage by wells in the Indian Basin-Upper Pennsylvanian Associated Pool can be met with counter drainage from wells located or to be located on the eastern side of each of the four 320-acre, more or less, non-standard gas spacing and proration units in the Indian Basin-Upper Pennsylvanian Gas Pool provided that wells located on the eastern side of these units can be no closer than 660 feet from the eastern boundary, which is also the setback requirement for wells in the Indian Basin-Upper Pennsylvanian Associated Pool; and
- (ii) wells located in the Indian Basin-Upper Pennsylvanian Gas Pool will not suffer unfair competition from wells located or to be located in these four, non-standard gas proration units because allowables will be apportioned based upon the gas proration system adopted for the Indian Basin-Upper Pennsylvanian Gas Pool.
- (J) The granting of this application should not impair the correlative rights:
 - (i) of any working interest owner within any of the existing 640-acre GPUs because there are voluntary joint operating agreements requiring that all those owners continue to share in production and pay costs from the new 320-acre spacing units on the same proportional basis as in the original 640-acre unit;
 - (ii) of any overriding royalty interest owner or the federal royalty under a federal oil and gas lease within any of the existing 640-

acre GPUs because there are federal communitization agreements requiring that all those owners continue to share in production from the new 320-acre spacing units on the same proportional basis as in the original 640-acre unit;

- (iii) under Section 32, Township 21 South, Range 24 East, NMPM, which consists of two 320-acre State of New Mexico leases and is operated by Marathon Oil Company, because there are no overriding royalty owners and the State Land Office desires that the communitization agreement for the existing 640-acre proration unit terminate and be replaced by two 320-acre proration units coextensive with the two State leases; and,
- (iv) under Section 36, Township 21 South, Range 23 East, NMPM, which consists of two State of New Mexico leases and is operated by ORYX Energy Company, because there are no overriding royalty owners and the State Land Office desires that the existing 640-acre communitization agreement terminate and be replaced by two 320-acre communitization agreements.
- (10) The evidence and testimony presented at the hearing further indicate that:
 - (A) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are a single structural feature such that wells located in this area should be subject to the same special rules and regulations.
 - (B) Geologic and petroleum engineering evidence demonstrate that substantial volumes of oil and gas, which otherwise would not be produced, can be economically recovered from the extension area if that area is subject to the

current rules applicable to the Indian Basin-Upper Pennsylvanian Associated Pool, thereby preventing waste.

- (C) Making the extension area part of the Indian Basin-Upper Pennsylvanian Associated Pool will afford the opportunity to increase the de-watering process in the reservoir and improve recovery efficiencies for both oil and gas.
- (D) The adoption of the four 320-acre, more or less, non-standard gas proration and spacing units will establish a temporary "buffer" or transition area between the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Upper Pennsylvanian Associated Pool, which at this time will establish equity and protect correlative rights.
- (11) The applicants are all of the operators of wells in the extension area and they have met and unanimously agreed upon this application.
- (12) In accordance with Division notification rules, notification of this application and request for hearing has been sent to the owners within the proposed expansion area and to the offset operators to each non-standard gas proration and spacing unit and no objections have been received by either the Division or Marathon Oil Company, which sent out these notices.
- (13) In order to prevent waste, to prevent the drilling of unnecessary wells, to protec correlative rights and provide for a more orderly development of the Cisco/Canyon formations, is necessary to do the following:
 - (A) contract the Indian Basin-Upper Pennsylvanian Gas Pool and expand the Indian Basin-Upper Pennsylvanian Associated Pool as described in Finding Paragraph No. 6;
 - (B) approve the four non-standard 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool as described in Finding Paragraph No. 7; and,
 - (C) approve an unorthodox gas well location for the Lowe State Gas Com Well No. 1 located 1995 feet from the North line and 1712 feet from the West line (Unit K) of said Section

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36.

- (14) Marathon Oil Company, Santa Fe Energy Resources, Inc. and ORYX Energy Corporation were present at the hearing and Marathon Oil Company, on behalf of the applicants, provided technical land, geologic and engineering testimony concerning the reservoir and, these pools.
- (15) No other operator and/or interest owner appeared at the hearing in opposition to the application.
- (16) Approval of the applicant's request will allow the interest owners the opportunity to economically recover their share of the oil and gas in the subject pools, will not reduce ultimate recovery from the subject pools, and will not violate correlative rights.

IT IS THEREFORE ORDERED THAT:

(1) The Indian Basin-Upper Pennsylvanian Gas Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby contracted by the deletion of the following described area:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

F/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

(2) Concomitantly, the Indian Basin-Upper Pennsylvanian Associated Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein the following described area:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2



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TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Section 18:

All.

- (3) The following four 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool within Section 36, Township 21 South, Range 23 East, and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM, Eddy County, New Mexico, are hereby approved:
 - (A) the W/2 of Section 36, comprising 320 acres, which is to be dedicated to the existing Lowe State Gas Com Well No. 1 (API No. 30-015-10342), located at an unorthodox gas well location for the 320-acre GPU, 1995 feet from the North line and 1712 feet from the West line (Unit F) of Section 36;
 - (B) the W/2 of Section 1, comprising 336.57 acres, on which there is currently no well;
 - (C) the W/2 of Section 12, comprising 320 acres, which is to be dedicated to the existing Smith Federal Gas Com Well No. 2 (API No. 30-015-26834) located 2049 feet from the North and 480 feet from the West lines (Unit E) of Section 12; and,
 - (D) the W/2 of Section 13, comprising 320 acres, which is to be dedicated to the HOC Federal Gas Com Well No. 2 (API No. 30-015-26939) located 330 feet from the North line and 330 feet from the West line (Unit D) of Section 13.
- (4) Any future well located in any of these four non-standard gas proration and spacing units no closer than 660 feet to the eastern boundary of the unit shall be considered

to be at a standard location.

- (5) The apportionment of gas allowables for the four non-standard GPU's shall be accomplished by applying a 0.5 acreage factor to each of the non-standard GPU's.
- (6) An unorthodox gas well location for the following well in the Indian Basin-Upper Pennsylvanian Gas Pool, which became unorthodox as a result of the change in pool boundary, is hereby approved: Lowe State Gas Com Well No. 1 located 1995 feet from the North line and 1712 feet from the West line and of Section 36, Township 21 South, Range 23 East, NMPM, Eddy County, New Mexico.
- (7) The locations of all wells presently drilling to or completed in the Indian Basin-Upper Pennsylvanian Associated Pool within this expansion area are hereby approved; the operator of any well having an unorthodox location shall notify the Artesia District Office of the Division in writing of the name and location of the well within thirty days from the date of this order.
- (8) Pursuant to Paragraph A of Section 70-2-18, NMSA (1978), contained in Chapter 271, Laws of 1969, existing wells in the Indian Basin-Upper Pennsylvanian Associated Pool within this expansion area shall have dedicated thereto 320 acres; or, pursuant to Paragraph C of Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.
- (9) Failure to file new Forms C-102 with the Division dedicating 320 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to being shut-in.
- (10) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DOFF ? Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

SEAL

See Also Order Nov. R-4922 R-9922-A R-9972-A R-8922-C

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION DIVISION FOR THE PURPOSE OF CONSIDERING:

> NOMENCLATURE CASE NO. 12006 ORDER NO. R-9922-D

APPLICATION OF MARATHON OIL COMPANY, YATES PETROLEUM CORPORATION, ORYX ENERGY COMPANY, DEVON ENERGY CORPORATION (NEVADA) AND SANTA FE ENERGY RESOURCES, INC. FOR THE EXPANSION OF THE INDIAN BASIN-UPPER PENNSYLVANIAN ASSOCIATED POOL AND THE CONCOMITANT CONTRACTION OF THE INDIAN BASIN-UPPER PENNSYLVANIAN GAS POOL, APPROVAL OF FOUR NON-STANDARD 320-ACRE GAS PRORATION UNITS, AN UNORTHODOX GAS WELL LOCATION, AND APPORTIONMENT OF GAS ALLOWABLES, EDDY COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on July 9, 1998, at Santa Fe, New Mexico, before Examiner Michael E. Stogner.

NOW, on this 7th day of December, 1998, the Division Director, having considered the record and the recommendations of the Examiner,

FINDS THAT:

- (1) Due public notice has been given and the Division has jurisdiction of this case and its subject matter.
- (2) The Indian Basin-Upper Pennsylvanian Gas Pool is a prorated gas pool currently governed by the "General Rules for the Prorated Gas Pools of New Mexico/Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Gas Pool," as promulgated by Division Order No. R-8170, as amended, which require standard 640-acre spacing and proration units ("GPU") with wells to be located no closer than 1650 feet from the outer boundary of the GPU nor closer than 330 feet from any governmental quarter-quarter section line or subdivision inner boundary. The current gas allowable for the Indian Basin-Upper Pennsylvanian Gas Pool is approximately 6.5 MMCFG per day per GPU.

Page 2

(3) The Indian Basin-Upper Pennsylvanian (Prorated) Gas Pool currently comprises the following described area in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

 Section 3:
 W/2

 Section 4:
 All

 Sections 8 and 9:
 All

 Section 10:
 W/2

 Section 15:
 W/2

 Sections 16 through 30:
 All

 Sections 32 through 36:
 All

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 19 through 21: All Sections 28 through 32: All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Sections 1 through 5: All
Sections 8 through 17: All
Section 21: N/2
Section 22: All.

- (4) The Indian Basin-Upper Pennsylvanian Associated Pool is currently governed by the "Special Rules and Regulations for the Indian Basin-Upper Pennsylvanian Associated Pool," as promulgated by Division Order No. R-9922, as amended, which require standard 320-acre oil and gas spacing units with wells to be located no closer than 660 feet from the outer boundary of the proration unit nor closer than 330 feet from any quarter-quarter section line or subdivision inner boundary, and with no more than one well per 80-acre tract to be drilled or produced on a standard proration unit. The special depth bracket allowable for the pool is 1,400 barrels of oil per day. The limiting gas-oil ratio for the pool is 7,000 cubic feet of gas per barrel of oil, which results in a casinghead gas allowable of 9.8 MMCFG per day.
- (5) The Indian Basin-Upper Pennsylvanian Associated Pool currently comprises the following described area in Eddy County, New Mexico:

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Section 27: S/2 Sections 33 and 34: All



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TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Sections 2 through 10:

All

Section 11:

N/2

Sections 16 and 17:

All.

(6) The applicants, Marathon Oil Company, Yates Petroleum Corporation, Oryx Energy Company, Devon Energy Corporation (Nevada), and Santa Fe Energy Resources, Inc. seek an order expanding the Indian Basin-Upper Pennsylvanian Associated Pool in Eddy County, New Mexico to include:

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Section 36:

E/2

TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Section 18:

All

AND THE concomitant contraction of the Indian Basin-Upper Pennsylvanian Gas Pool by deleting therefrom:

TOWNSHIP 21 SOUTH. RANGE 23 EAST. NMPM

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E/2

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Sections 20 and 21:

All

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E/2

Section 12:

E/2

Section 13:

E/2.

- (7) In conjunction with the proposed adjustment to the boundaries of the two subject pools, the applicants seek to establish the following four 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool within Section 36, Township 21 South, Range 23 East, NMPM, and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM, Eddy County, New Mexico:
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 - (B) the W/2 equivalent of Section 1, comprising 336.57 acres, on which there is currently no well;
 - (C) the W/2 of Section 12, comprising 320 acres, which is to be dedicated to the existing Smith Federal Gas Com Well No. 2 (API No. 30-015-26834) located 2049 feet from the North line and 480 feet from the West line (Unit E) of Section 12; and
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the base of the Canyon formation.

- (B) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Gas Pool, including the extension area, and the Indian Basin-Upper Pennsylvanian Associated Pool were originally developed with flowing gas wells on 640-acre gas spacing such that, once the gas wells stopped flowing as a result of water encroachment, the wells were abandoned.
- (C) The Indian Basin-Upper Pennsylvanian Gas Pool attained its maximum extension in the 1970s and, since then, water encroachment has advanced from east to west slowly watering out the flowing gas wells. Currently, flowing gas production occurs west of a structural contour line at minus 3300 feet subsea elevation.
- (D) In 1992, Yates Petroleum Corporation reentered and recompleted the Hickory "ALV" Federal Well No 1 (API No. 30-015-10566), located 1650 feet from the North and West lines (Unit F) of Section 17, Township 22 South, Range 24 East, NMPM. Using the same high capacity pumps used in the nearby South Dagger Draw-Upper Pennsylvanian Associated Pool, Yates was able to achieve rates of 400 BOPD, 500 MCFGPD and 1200 BWPD in a former Indian Basin-Upper Pennsylvanian Gas Pool well which had previously been depleted. Thereafter the Division entered Order No. R-9922 and created the Indian Basin-Upper Pennsylvanian Associated Pool.
- (E) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are in a structural feature separated from the Indian Basin-Upper Pennsylvanian Gas Pool by a structural saddle at the top of the Cisco at a subsea elevation of minus 3500 feet. New wells located within 320-care spacing units in the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are now producing or have the potential to produce oil and gas that was not previously recovered when this area was originally developed as part of the Indian Basin-Upper Pennsylvanian Gas Pool.

(F) Current oil and gas production from the Cisco/Canyon formations in the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area required extensive formation "de-watering." Hydrocarbons are mobilized by continuous movement of large volumes of water with artificial lift.

(G) Pressure data demonstrates that:

- (i) the Indian Basin-Upper Pennsylvanian Associated Pool, with a pressure on average of 1600 psi, is not in pressure communication with the Indian Basin-Upper Pennsylvanian Gas Pool, which has a current pressure on average of 500 psi; and
- (ii) wells in the extension area of Township 21 South, Range 24 East, NMPM, have a pressure related to the Indian Basin-Upper Pennsylvanian Associated Pool.

(H) Production data demonstrates that:

- (i) there are no flowing gas wells in the extension area; and
- (ii) old flowing gas wells in the extension area were abandoned when they watered out and new wells are attaining oil and gas production by using high capacity pumps.
- (I) The division of Section 36, Township 21 South, Range 23 East, NMPM and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM (the transition area) into non-standard 320-acre, more or less, gas proration and spacing units will provide an equitable "buffer" between the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Upper Pennsylvanian Associated Pool because:

- (i) wells have been located or can be located such that drainage by wells in the Indian Basin-Upper Pennsylvanian Associated Pool can be met with counter drainage from wells located or to be located on the eastern side of each of the four 320-acre, more or less, non-standard gas spacing and proration units in the Indian Basin-Upper Pennsylvanian Gas Pool provided that wells located on the eastern side of these units can be no closer than 660 feet from the eastern boundary, which is also the setback requirement for wells in the Indian Basin-Upper Pennsylvanian Associated Pool; and
- (ii) wells located in the Indian Basin-Upper Pennsylvanian Gas Pool will not suffer unfair competition from wells located or to be located in these four, non-standard gas proration units because allowables will be apportioned based upon the gas proration system adopted for the Indian Basin-Upper Pennsylvanian Gas Pool.
- (J) The granting of this application should not impair the correlative rights:
 - (i) of any working interest owner within any of the existing 640-acre GPUs because there are voluntary joint operating agreements requiring that all those owners continue to share in production and pay costs from the new 320-acre spacing units on the same proportional basis as in the original 640-acre unit;
 - (ii) of any overriding royalty interest owner or the federal royalty under a federal oil and gas lease within any of the existing 640-

acre GPUs because there are federal communitization agreements requiring that all those owners continue to share in production from the new 320-acre spacing units on the same proportional basis as in the original 640-acre unit:

- (iii) under Section 32, Township 21 South, Range 24 East, NMPM, which consists of two 320-acre State of New Mexico leases and is operated by Marathon Oil Company, because there are no overriding royalty owners and the State Land Office desires that the communitization agreement for the existing 640-acre proration unit terminate and be replaced by two 320-acre proration units coextensive with the two State leases; and,
- (iv) under Section 36, Township 21 South, Range 23 East, NMPM, which consists of two State of New Mexico leases and is operated by ORYX Energy Company, because there are no overriding royalty owners and the State Land Office desires that the existing 640-acre communitization agreement terminate and be replaced by two 320-acre communitization agreements.
- (10) The evidence and testimony presented at the hearing further indicate that:
 - (A) The Cisco/Canyon formations within the Indian Basin-Upper Pennsylvanian Associated Pool and the extension area are a single structural feature such that wells located in this area should be subject to the same special rules and regulations.
 - (B) Geologic and petroleum engineering evidence demonstrate that substantial volumes of oil and gas, which otherwise would not be produced, can be economically recovered from the extension area if that area is subject to the

current rules applicable to the Indian Basin-Upper Pennsylvanian Associated Pool, thereby preventing waste.

- (C) Making the extension area part of the Indian Basin-Upper Pennsylvanian Associated Pool will afford the opportunity to increase the de-watering process in the reservoir and improve recovery efficiencies for both oil and gas.
- (D) The adoption of the four 320-acre, more or less, non-standard gas proration and spacing units will establish a temporary "buffer" or transition area between the Indian Basin-Upper Pennsylvanian Gas Pool and the Indian Basin-Upper Pennsylvanian Associated Pool, which at this time will establish equity and protect correlative rights.
- (11) The applicants are all of the operators of wells in the extension area and they have met and unanimously agreed upon this application.
- (12) In accordance with Division notification rules, notification of this application and request for hearing has been sent to the owners within the proposed expansion area and to the offset operators to each non-standard gas proration and spacing unit and no objections have been received by either the Division or Marathon Oil Company, which sent out these notices.
- (13) In order to prevent waste, to prevent the drilling of unnecessary wells, to protect correlative rights and provide for a more orderly development of the Cisco/Canyon formations, is necessary to do the following:
 - (A) contract the Indian Basin-Upper Pennsylvanian Gas Pool and <u>expand</u> the Indian Basin-Upper Pennsylvanian Associated Pool as described in Finding Paragraph No. 6;
 - (B) approve the four non-standard 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool as described in Finding Paragraph No. 7; and,
 - (C) approve an unorthodox gas well location for the Lowe State Gas Com Well No. 1 located 1995 feet from the North line and 1712 feet from the West line (Unit K) of said Section

Page 10

36.

- (14) Marathon Oil Company, Santa Fe Energy Resources, Inc. and ORYX Energy Corporation were present at the hearing and Marathon Oil Company, on behalf of the applicants, provided technical land, geologic and engineering testimony concerning the reservoir and, these pools.
- (15) No other operator and/or intere to the application.
- (16) Approval of the applicant's opportunity to economically recover their shar not reduce ultimate recovery from the subject

IT IS THEREFORE ORDERED THA'

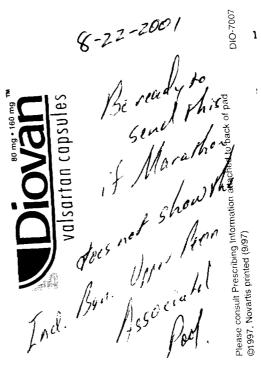
(1) The Indian Basin-Upper Penns Mexico, as heretofore classified, defined, and de of the following described area:

TOWNSHIP 21 SOUTH, RANG Section 36:

TOWNSHIP 21 SOUTH. RANC

Sections 20 and 21:

Sections 28 through 32:



TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

(2) Concomitantly, the Indian Basin-Upper Pennsylvanian Associated Pool in Eddy County, New Mexico, as heretofore classified, defined, and described, is hereby extended to include therein the following described area:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM

Section 36:

E/2

Nomenclature Case No. 12006 Order No. R-9922-D

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TOWNSHIP 21 SOUTH, RANGE 24 EAST, NMPM

Sections 20 and 21:

All

Sections 28 through 32:

All

TOWNSHIP 22 SOUTH, RANGE 23 EAST, NMPM

Section 1:

E/2

Section 12:

E/2

Section 13:

E/2.

TOWNSHIP 22 SOUTH, RANGE 24 EAST, NMPM

Section 18:

All.

- (3) The following four 320-acre, more or less, GPU's within the Indian Basin-Upper Pennsylvanian Gas Pool within Section 36, Township 21 South, Range 23 East, and Sections 1, 12, and 13, Township 22 South, Range 23 East, NMPM, Eddy County, New Mexico, are hereby approved:
 - (A) the W/2 of Section 36, comprising 320 acres, which is to be dedicated to the existing Lowe State Gas Com Well No. 1 (API No. 30-015-10342), located at an unorthodox gas well location for the 320-acre GPU, 1995 feet from the North line and 1712 feet from the West line (Unit F) of Section 36;
 - (B) the W/2 of Section 1, comprising 336.57 acres, on which there is currently no well;
 - (C) the W/2 of Section 12, comprising 320 acres, which is to be dedicated to the existing Smith Federal Gas Com Well No. 2 (API No. 30-015-26834) located 2049 feet from the North and 480 feet from the West lines (Unit E) of Section 12; and,
 - (D) the W/2 of Section 13, comprising 320 acres, which is to be dedicated to the HOC Federal Gas Com Well No. 2 (API No. 30-015-26939) located 330 feet from the North line and 330 feet from the West line (Unit D) of Section 13.
- (4) Any future well located in any of these four non-standard gas proration and spacing units no closer than 660 feet to the eastern boundary of the unit shall be considered

to be at a standard location.

- (5) The apportionment of gas allowables for the four non-standard GPU's shall be accomplished by applying a 0.5 acreage factor to each of the non-standard GPU's.
- (6) An unorthodox gas well location for the following well in the Indian Basin-Upper Pennsylvanian Gas Pool, which became unorthodox as a result of the change in pool boundary, is hereby approved: Lowe State Gas Com Well No. 1 located 1995 feet from the North line and 1712 feet from the West line and of Section 36, Township 21 South, Range 23 East, NMPM, Eddy County, New Mexico.
- (7) The locations of all wells presently drilling to or completed in the Indian Basin-Upper Pennsylvanian Associated Pool within this expansion area are hereby approved; the operator of any well having an unorthodox location shall notify the Artesia District Office of the Division in writing of the name and location of the well within thirty days from the date of this order.
- (8) Pursuant to Paragraph A of Section 70-2-18, NMSA (1978), contained in Chapter 271, Laws of 1969, existing wells in the Indian Basin-Upper Pennsylvanian Associated Pool within this expansion area shall have dedicated thereto 320 acres; or, pursuant to Paragraph C of Section 70-2-18, existing wells may have non-standard spacing or proration units established by the Division and dedicated thereto.
- (9) Failure to file new Forms C-102 with the Division dedicating 320 acres to a well or to obtain a non-standard unit approved by the Division within 60 days from the date of this order shall subject the well to being shut-in.
- (10) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DOFF ? Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

LORI WROTENBERY

Director

SEAL

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

CASE No. 2750 Order No. R-2441 NOMENCLATURE

APPLICATION OF RALPH LOWE TO CREATE A NEW POOL FOR MORROW GAS PRODUCTION AND FOR SPECIAL POOL RULES, EDDY COUNTY, NEW MEXICO. 2100 RCC P-2441-77

ORDER OF THE COMMISSION

BY THE COMMISSION:

This cause came on for hearing at 9 o'clock a.m. on February 6, 1963, at Santa Fe, New Mexico, before Daniel S. Nutter, Examiner duly appointed by the Oil Conservation Commission of New Mexico, hereinafter referred to as the "Commission," in accordance with Rule 1214 of the Commission Rules and Regulations.

NOW, on this 28th day of February, 1963, the Commission, a quorum being present, having considered the application, the evidence adduced, and the recommendations of the Examiner, Daniel S. Nutter, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That the applicant, Ralph Lowe, seeks the creation of a new gas pool for Morrow production and the promulgation of temporary special rules and regulations governing said pool, including a provision for 640-acre spacing units.
- (3) That a new gas pool for Morrow production should be created and designated the Indian Basin-Morrow Gas Pool. This pool was discovered by the Ralph Lowe Indian Basin Well No. 1, located in Unit E of Section 23, Township 21 South, Range 23 East, NMPM, Eddy County, New Mexico. The top of the perforations in the Morrow formation is at 9039 feet.
- (4) That temporary special rules and regulations establishing 640-acre spacing units should be promulgated for the subject pool in order to prevent the possibility of economic loss resulting from the drilling of unnecessary wells and in order to allow

-2-CASE No. 2750 Order No. R-2441

the operators in the subject pool to gather information concerning the reservoir characteristics of the pool.

- (5) That the temporary special rules and regulations should provide for limited well locations in order to assure orderly development of the pool and protect correlative rights.
- (6) That special rules and regulations should be established for a temporary period to expire one year from the date that a pipeline connection is first obtained for a well in the pool; that during this temporary period all operators in the subject pool should gather all available information relative to drainage and recoverable reserves.
- (7) That this case should be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Indian Basin-Morrow Gas Pool, at which time the operators in the subject pool should appear and show cause why the Indian Basin-Morrow Gas Pool should not be developed on 160-acre spacing units.
- (8) That the first operator to obtain a pipeline connection for a well in the Indian Basin-Morrow Gas Pool should notify the Commission in writing of such fact, and that the Commission should thereupon issue a supplemental order designating an exact date for reopening this case.

IT IS THEREFORE ORDERED:

(1) That a new pool in Eddy County, New Mexico, classified as a gas pool for Morrow production is hereby created and designated the Indian Basin-Morrow Gas Pool, consisting of the following-described area:

TOWNSHIP 21 SOUTH, RANGE 23 EAST, NMPM Section 22: All Section 23: All

(2) That Special Rules and Regulations for the Indian Basin-Morrow Gas Pool are hereby promulgated as follows, effective March 1, 1963.

SPECIAL RULES AND REGULATIONS FOR THE INDIAN BASIN-MORROW GAS POOL

RULE 1. Each well completed or recompleted in the Indian Basin-Morrow Gas Pool or in the Morrow formation within one mile of the Indian Basin-Morrow Gas Pool, and not nearer to or within the limits of another designated Morrow pool, shall be spaced, drilled, operated, and produced in accordance with the Special Rules and Regulations hereinafter set forth.

-3-CASE No. 2750 Order No. R-2441

- RULE 2. Each well completed or recompleted in the Indian Basin-Morrow Gas Pool shall be located on a standard unit containing 640 acres, more or less, consisting of a single governmental section.
- RULE 3. The Secretary-Director may grant an exception to the requirements of Rule 2 without notice and hearing when an application has been filed for a non-standard unit and the unorthodox size or shape of the unit is necessitated by a variation in the legal subdivision of the United States Public Lands Survey, or the following facts exist and the following provisions are complied with:
 - (a) The non-standard unit consists of quarterquarter sections or lots that are contiguous by a common bordering side.
 - (b) The non-standard unit lies wholly within a single governmental section and contains less acreage than a standard unit.
 - (c) The applicant presents written consent in the form of waivers from all offset operators and from all operators owning interests in the section in which the non-standard unit is situated and which acreage is not included in said non-standard unit.
 - (d) In lieu of Paragraph (c) of this rule, the applicant may furnish proof of the fact that all of the aforesaid operators were notified by registered or certified mail of his intent to form such non-standard unit. The Secretary-Director may approve the application if no such operator has entered an objection to the formation of such non-standard unit within 30 days after the Secretary-Director has received the application.
- RULE 4. Each well completed or recompleted in the Indian Basin-Morrow Gas Pool shall be located no nearer than 1650 feet to the outer boundary of the section and no nearer than 330 feet to any governmental quarter-quarter section line.
- RULE 5. The Secretary-Director may grant an exception to the requirements of Rule 4 without notice and hearing when an application has been filed for an unorthodox location necessitated by topographical conditions or the recompletion of a well previously drilled to another horizon. All operators offsetting the proposed unorthodox location shall be notified of the application by registered or certified mail, and the application shall state that such notice has been furnished. The Secretary-Director may

-4-CASE No. 2750 Order No. R-2441

approve the application upon receipt of written waivers from all offset operators or if no offset operator has entered an objection to the unorthodox location within 20 days after the Secretary-Director has received the application.

IT IS FURTHER ORDERED:

- (1) That any well presently drilling to or completed in the Morrow formation within the Indian Basin-Morrow Gas Pool or within one mile of the Indian Basin-Morrow Gas Pool that will not comply with the well location requirements of Rule 4 is hereby granted an exception to the requirements of Rule 4. The operator of any such well shall notify the Artesia District Office in writing of the name and location of the well on or before March 1, 1963.
- (2) That any operator desiring to dedicate 640 acres to a well presently drilling to or completed in the Indian Basin-Morrow Gas Pool shall file a new Form C-128 with the Commission on or before March 1, 1963.
- (3) That this case shall be reopened at an examiner hearing one year from the date that a pipeline connection is first obtained for a well in the Indian Basin-Morrow Gas Pool, at which time the operators in the subject pool may appear and show cause why the Indian Basin-Morrow Gas Pool should not be developed on 160-acre spacing units.
- (4) That the first operator to obtain a pipeline connection for a well in the Indian Basin-Morrow Gas Pool shall notify the Commission in writing of such fact, and that the Commission will thereupon issue a supplemental order designating an exact date for reopening this case.
- (5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

JACK M. CAMPBELL, Chairman

E. S. WALKER, Member

SEAL

A. L. PORTER, Jr., Member & Secretary

BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
COMMISSION OF NEW ARRICO FOR
THE PURPOSE OF CONSIDERING:

CASE No. 2750
Order No. R-2441-A

APPLICATION OF RALPH LOWE
TO CREATE A NEW POOL FOR
MORROW GAS PRODUCTION AND
FOR SPECIAL POOL RULES,
EDDY COUNTY, NEW MEXICO.

ORDER OF THE COMMISSION

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BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on February 8, 1967, at Santa Fe, New Mexico, before Examiner Daniel S. Nutter.

NOW, on this 13th day of February, 1967, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

- (1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.
- (2) That by Order No. R-2441, dated February 28, 1963, Special Rules and Regulations were promulgated for the Indian Basin-Morrow Gas Pool, Eddy County, New Mexico, for a period of one year from the date of first pipeline connection.
- (3) That pursuant to the provisions of Order No. R-2441, this case was reopened to allow the operators in the subject pool to appear and show cause why the Indian Basin-Morrow Gas Pool should not be developed on 320-acre spacing units.
- (4) That the evidence establishes that one well in the Indian Basin-Morrow Gas Pool can efficiently and economically drain and develop 640 acres.

- (5) That the Special Rules and Regulations promulgated by Order No. R-2441 have afforded and will afford to the owner of each property in the pool the opportunity to produce his just and equitable share of the gas in the pool.
- (6) That in order to prevent the economic loss caused by the drilling of unnecessary wells, to avoid the augmentation of risk arising from the drilling of an excessive number of wells to prevent reduced recovery which might result from the drilling of too few wells, and to otherwise prevent waste and protect correlative rights, the Special Rules and Regulations promulgated by Order No. R-2441 should be continued in full force and effect until further order of the Commission.

IT IS THEREFORE ORDERED:

- (1) That the Special Rules and Regulations governing the Indian Basin-Morrow Gas Pool, promulgated by Order No. R-2441, are hereby continued in full force and effect until further order of the Commission.
- (2) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary.

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

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

DAVID F. CARGO, Chairman

GUYTON B. HAYS. Member

A. L. PORTER, Jr., Member & Secretary

SEAL

PI/DWIGHTS PLUS DRILLING WIRE ™ **NEW MEXICO** Section II - 09/24/2001

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DRILLING PROGRESS

NEW MEXICO DISTRICT 1.2.4-EDDY COUNTY CONTINUED FASKEN OIL AND RANCH LTD

4 ROSS FEDERAL IC 30015708922001 4-21S-24E SE

3100 FNL 2600 FEL SEC

CEMETARY; 9850 MORROW (FR:20010807 OKC JWG) LEASE

TYPE:FEDERAL TARGET OBJ: GAS; OPER ADD: 303 W WALL, STE 1800, MIDLAND, TX 79701-5116, (915)687-1777 EL: 3670 GR LOCATION DATA:

IRREG SEC 11 MI SW LAKEWOOD, NM VERTICAL;

PROPOSED SPUD:20011101 LOC; \$\$\$\$

YATES PETROLEUM CORPORATION

2 ARCHIMEDES 'ARE' STATE COM API 30-015-30444

18-21S-24E

SW NW 1980 FNL 990 FWL SEC CEMETARY; 9800 MORROW (PMT APP'D 19981015) (FR:19981019 MIDL MJA) LEASE TYPE:STATE TARGET OBJ: GAS: OPER ADD: P O BOX 1908. ROCK SPRINGS, WY 82902, (307)382-4005 EL: 3818 GR LOCATION DATA:

15 MI SW LAKEWOOD, NM VERTICAL;

CONTR: PATTERSON DRILLING COMPANY, RIG # 80; SPUD:19990905 CSG: 20 IN @ 40,9 5/8 IN @ 1195 W/1100 SACK,5 1/2 IN @ 9840 W/820 SACK; DRLG COMMENTS: SPD 9/8/99 W/RT: LOG TYPES: CBND. GR. CCL; RIG REL: 19991013 DST # 01 DST # 02 DST # 03 DST # 04 9840 TD. (MORROW INTERPRETED) (TD REACHED:19991009) 8800 PBTD PROD TEST(S): # 01 PERF (CANYON SERIES) 7706-7714; ACID (7706-7714) W/ 15000 GAL ACID 20% HCL ADDITIVE: GELA SQUEEZED 7706-7714; CMT RET @ 7690, SQZD W/150 SACKS & DO TO 8800 # 02 PERF (STRAWN) 8092-8104 8236-8242 8414-8421 8664-8670 W/ 122 SHOTS; ACID (8092-8670) W/ 3000 GAL ACID 9840 DTD 8800 PB WELL DRLD & PERFED, NO FURTHER DETAILS (LDIR:20010601) \$\$\$\$

MARATHON OIL COMPANY

30 INDIAN HILLS UNIT API 30-015-30600-0100 20-21S-24E

SE NW SW

1373 FSL 808 FWL SEC

INDIAN BASIN: 10500 MORROW (FR:20001214 OKC WSN) TARGET OBJ: GAS; OPER ADD: BOX 552, MIDLAND, TX 79702, (915)682-1626 EL: 3791 GR LOCATION DATA: 15 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: MD 10500 4308 FSL 1403 FWL SEC 20-21S-24E SW NE NW OLD INFO: 30-015-30600 FORMERLY MARATHON OIL COMPANY WD-2 ROCKY HILLS EL: 3816 KB, SPUD:19990330 CSG: 13 3/8 IN @ 1206 W/905 SACK,9 5/8 IN @

9790 W/3250 SACK; LNR: 7 IN @ 9408-10343 W/300 SACK; LOG TOPS: DEVONIAN 10342; OTD: 11307 COMP:19990623 SERVICE WELL-DISPOSAL, WATER SUPPLY, ETC

CONTR: NABORS DRILLING USA, RIG # 311; EST SPUD:20010424 10500 EST TD, (TD REACHED:20010725) 10500 EST TDDRLD (LDIR:20010803) \$\$\$\$ Karangan da wake wi

MARATHON OIL COMPANY

31 INDIAN HILLS UNIT API 30-015-31534 IC 30015785522000

20-21S-24E

SW NE NE 1093 FNL 663 FEL SEC INDIAN BASIN; 8800 PENNSYLVANIAN UPPER (FR:20001114 OKC WSN) TARGET OBJ: GAS; OPER ADD: BOX 552, MIDLAND, TX 79702,

(915)682-1626 EL: 4149 GR LOCATION DATA: 15 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: MD 8800 1356 FNL 1633 FWL SEC 21-21S-24E NW

SE NW

CONTR: NABORS DRILLING USA, RIG # 311; EST SPUD:20010218 CSG: 13 3/8 IN @ 1800 W/725 SACK, 9 5/8 IN @ 8800 W/2175 SACK; RIG REL: 20010227 8800 EST TD, (PENNSYLVANIAN INTERPRETED) (TD REACHED:20010226) PRODUCING INTERVALS DATA: # 01 (PENNSYLVANIAN); UNREPORTED TREATMENT U GAS: UG IP NOT RPTD; PRODUCING GAS WELL 8800 EST TD COMP:20010326 (EST), # 01 IPU GAS: UG PROD ZONE: (PENNSYLVANIAN) INT NOT RPTD; HOLDING FOR DATA(LDIR:20010921) \$\$\$\$

MARATHON OIL COMPANY

33 INDIAN HILLS UNIT API 30-015-31755 IC 30015778362001

21-21S-24E

SW SW SW 429 FSL 326 FWL SEC INDIAN BASIN; 8800 PENNSYLVANIAN UPPER (PMT APP'D 20010430) (FR:20010227 OKC WSN) TARGET OBJ: GAS; OPER ADD: BOX 552, MIDLAND, TX 79702, (915)682-1626 EL: 3667 GR LOCATION DATA: 15 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: MD 8800 1578 FSL 1603 FWL SEC 21-21S-24E SW NE SW

CONTR; MCVAY DRILLING, RIG # 8; SPUD:20010617 CSG: 13 3/8 IN @ 1340 W/1100 SACK,9 5/8 IN @ 8555; RIG REL: 20010717 8555 TD, 8555 DTDWOCT (LDIR:20010910) \$\$\$\$

MARATHON OIL COMPANY

36 INDIAN HILLS UNIT IC 30015739042001

21-21S-24E

SW SW SW

429 FSL 506 FWL SEC

INDIAN BASIN: 9600 PENNSYLVANIAN UPPER (FR:20010830 OKC WSN) TARGET OBJ: GAS; OPER ADD: BOX 552, MIDLAND, TX 79702,

(915)682-1626 EL: 3669 GR LOCATION DATA: 15 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: MD 9600 1770 FSL 1750 FWL SEC 21-21S-24E SW

NE SW

LOC; \$\$\$\$

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GAS

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PI/DWIGHTS PLUS DRILLING WIRE ™ **NEW MEXICO** Section II - 09/24/2001

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DRILLING PROGRESS

NEW MEXICO DISTRICT 1,2,4-EDDY COUNTY CONTINUED

YATES PETROLEUM CORPORATION

22-21S-24E SEINE SW

WILDCAT; 9900 MORROW (FR:20000823 MIDL MJA) LEASE TYPE:FEDERAL TARGET OBJ: GAS; OPER ADD: 105 S 4TH ST, YATES BLDG, ARTESIA, NM

88210, (505)748-1471 EL: 3679 GR LOCATION DATA: 13 MI SW

1 LOWE STAPLE 'AMR' FEDERAL COM 1650 FSL 2310 FWL SEC API 30-015-10040-0100 LAKEWOOD, NM 1 1/2 MI SE/9716 (MRRW) GAS PROD IN INDIAN BASIN FLD: HORIZONTAL; PREV WELL NO: 2 OLD INFO: 30-015-10040-0001 FORMERLY YATES PETROLEUM CORPORATION 1 LOWE STAPLE 'AMR FEDERAL EL: 3677 GR. SPUD:19930610 CSG: 7 IN @ 9899 W/700 SACK: TBG:

2 7/8 IN@ 9456; OTD: 9900 PB: 9857 COMP:19930625 # 01 IPF GAS: 700 MCFD 24/64 CK FTP 195 PROD ZONE: PERF (MORROW) 9565-9604

CONTR: PATTERSON-UTI ENERGY INCORPORATED, RIG # 512; SPUD:20010523 WHIPSTOCK: 3860; CSG: 7 IN @ 8600 W/710 SACK; DRLG COMMENTS: SPOT CMT PLUG 5600 TO 5900 SPOT CMT PLUG TO 5237; RIG REL: 20010701 8600 TD, PROD TEST(S): # 01 PERF (MORROW) 9565-9604; BRIDGE PLUG 9505 FT 9565-9604; SET SECOND CIBP @ 7558 8600 DTDWOCT (LDIR:20010706) \$\$\$\$

MARATHON OIL COMPANY

24 INDIAN HILLS UNIT

API 30-015-31266

IC 30015799342000

28-21S-24E

SW NW NE

685 FNL 2073 FEL SEC

INDIAN BASIN; 8800 PENNSYLVANIAN UPPER (PMT APP'D 20000630) (FR:20000621 OKC WSN) LEASE TYPE:FEDERAL TARGET OBJ: GAS; OPER

ADD: BOX 552, MIDLAND, TX 79702, (915)682-1626 EL: 3658 GR

LOCATION DATA: 15 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: MD

8800 2139 FSL 1764 FEL SEC 21-21S-24E

CONTR: NABORS DRILLING USA, RIG # 311; EST SPUD:20000730 8800 EST TD, (PENNSYLVANIAN INTERPRETED) (TD REACHED:20000821) 8800

EST TD WO COMPL DETAILS (LDIR:20010709) \$\$\$\$

MARATHON OIL COMPANY

34 INDIAN HILLS UNIT API 30-015-31751

IC 30015776542001

LOC; \$\$\$\$

28-21S-24E NW SF NW

1416 FNL 1607 FWL SEC

INDIAN BASIN; 8800 PENNSYLVANIAN UPPER (PMT APP'D 20010427) (FR:20010223 OKC WSN) TARGET OBJ: GAS; OPER ADD: BOX 552, MIDLAND, TX 79702. (915)682-1626 EL: 3704 GR LOCATION DATA: 15 MI

NW CARLSBAD, NM VERTICAL:

MARATHON OIL COMPANY

35 INDIAN HILLS UNIT

IC 30015743862001

28-21S-24E SE SE SE

650 FSL 293 FEL SEC

INDIAN BASIN ASSOCIATED; 8800 PENNSYLVANIAN UPPER (FR:20010523 OKC WSN) TARGET OBJ: GAS; OPER ADD: BOX 552,

MIDLAND, TX 79702, (915)682-1626 EL: 4086 GR LOCATION DATA: 15 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: MD 8800 660 FSL 660 FEL SEC

28-21S-24E C SE SE

LOC: \$\$\$\$

DEVON ENERGY (NEVADA)

7 MARTHA CREEK GAS COM

API 30-015-31141 IC 30015703342000 30-21S-24E SE SE NE

2180 FNL 660 FEL SEC

INDIAN BASIN; 8500 PENNSYLVANIAN UPPER (PMT APP'D 20000508) (FR:20000321 OKC MSW) LEASE TYPE:FEDERAL TARGET OBJ: GAS; OPER ADD: 20 N BROADWAY, STE 1500, OKLAHOMA CITY, OK 73102-8260. (405)235-3611 EL: 3715 GR LOCATION DATA: 24 MI NW CARLSBAD, NM

DIRECTIONAL:

....PERMIT EXTENSION APPROVED (LDIR:20010828) LOC; \$\$\$\$

DEVON ENERGY CORPORATION 30-21S-24E

6 MARTHA CREEK GAS COM

API 30-015-30871

IC 300157020199

680 FSL 1100 FEL SEC

SE SE

INDIAN BASIN: 8500 PENNSYLVANIAN UPPER (PMT APP'D 19991020) (FR:19991020 OKC JWG) LEASE TYPE:FEDERAL TARGET OBJ: GAS; OPER ADD: 5251 DTC PKWY, STE 603, ENGLEWOOD, CO 80111, (303)721-9385

EL: 3810 GR LOCATION DATA: 24 MI NW CARLSBAD, NM DIRECTIONAL; PBHL: 660 FSL 660 FEL SEC 30-21S-24E SE SE

LOC: \$\$\$\$

CONCHO RESOURCES INCORPORATED

3 LEVERS '2' FEDERAL API 30-015-30427 IC 300157055197

LOC; \$\$\$\$

2-21S-25E

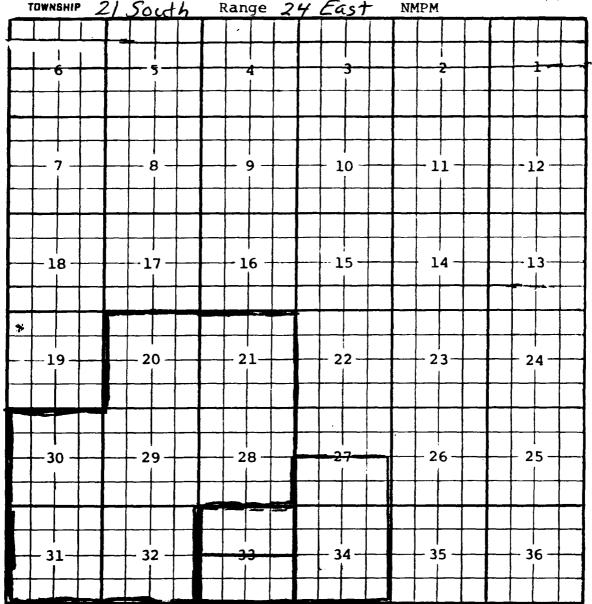
660 FNL 1980 FEL SEC

CATCLAW DRAW; 10700 MORROW (PMT APP'D 19980910) (FR:19970806 MD CLW) LEASE TYPE:FEDERAL TARGET OBJ: GAS; OPER ADD: 110 W LOUISIANA, STE 410, MIDLAND, TX 79701, (915)683-7443 EL: 3258 GR LOCATION DATA: 12 MI NW CARLSBAD, NM VERTICAL; PREV OPER: PENWELL ENERGY PREV WELL NO: 3 PREV LEASE: LEVERS '2'

FEDERAL

D

D



Ext: 5/2 Sec. 27, All Sec. 34 (R-9963, 9-20-93)

Ext: 9/2 Sec. 33 (R-10518,10-20-95) Ext: N/2 Sec. 33 (R-10664, 9-16-96)

Ext: 111 Secs. 20, 21, 28, 29, 30, 31, 32 (1.5922-12, 12-7-59)

COUNTY Eddy POOL Indian Basin - Upper Pennsylvanian Gas TOWNSHIP 21 South RANGE 24 East NMPM 23

Page: 1 Document Name: untitled

CMD :

OG5SECT

ONGARD

INQUIRE LAND BY SECTION

08/22/01 08:06:15

OGOMES -TPZ6

PAGE NO: 1

Sec : 21 Twp : 21S Rng : 24E Section Type : NORMAL

D	C	2	1		
40.00	40.00	38.26	38.29		
Federal owned U	 Federal owned U	 Federal owned U 	 Federal owned U		
E	i F	3	4		
40.00	40.00	36.69	1 * 36.72		
Federal owned	 Federal owned	 Federal owned	Federal owned		
U	U 	U 	U 		
PF01 HELP PF02	PF03 EXIT P	F04 GoTo PF05	PF06		
PF07 BKWD PF08 FW	D PF09 PRINT P	F10 SDIV PF11	PF12		
			-		

Date: 8/22/2001 Time: 08:36:33 AM

Page: 1 Document Name: untitled

CMD :

ONGARD

08/22/01 08:06:20

OG5SECT

INQUIRE LAND BY SECTION

OGOMES -TPZ6 PAGE NO: 2

Sec : 21 Twp : 21S Rng : 24E Section Type : NORMAL

L	K	6	5
40.00	40.00	36.35	36.29
			<u> </u>
Federal owned	Federal owned	Federal owned	Federal owned
U	U	U	, u
M	- N	7	
40.00	40.00	37.74	37.68
Federal owned	Federal owned	Federal owned	Federal owned
U	U	U	U
A A			
			_
PF01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	PF06
PF07 BKWD PF08 FW	D PF09 PRINT	PF10 SDIV PF11	PF12

Date: 8/22/2001 Time: 08:36:36 AM

08/22/01 08:07:45 ONGARD CMD :

OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPZ6

Page No: 1

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 2000 To : 06 2001

------API Well No Property Name Prodn. Days Production Volumes Well MM/YY Prod Gas Oil Water Stat _____ 30 15 10066 INDIAN HILLS UNIT 01 00 31 255998 1039 159415 F
30 15 10066 INDIAN HILLS UNIT 02 00 29 225835 1938 180089 F
30 15 10066 INDIAN HILLS UNIT 03 00 31 233636 759 112425 F
30 15 10066 INDIAN HILLS UNIT 04 00 30 209097 1173 97884 F
30 15 10066 INDIAN HILLS UNIT 05 00 31 214391 1207 152369 F
30 15 10066 INDIAN HILLS UNIT 06 00 26 151651 778 129837 F

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

30 15 10066 INDIAN HILLS UNIT 07 00 31 190438 1545 164148 F

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 8/22/2001 Time: 08:38:03 AM

CMD :

ONGARD

08/22/01 08:07:50

OG6IPRD

INQUIRE PRODUCTION BY POOL/WELL

OGOMES -TPZ6
Page No: 2

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 2000 To : 06 2001

API	We	ll No	Prope:	rty Nar	 me		odn. /YY	Days Prod	Produc Gas	tion Volur Oil	mes Water	Well Stat
30	15	10066	INDIAN	HILLS	UNIT	08	00	31	191838	1056	183375	F
30	15	10066	INDIAN	HILLS	UNIT	09	00	30	169625	1602	140927	F
30	15	10066	INDIAN	HILLS	UNIT	10	00	23	120678	679	91652	F
30	15	10066	INDIAN	HILLS	UNIT	11	00	20	82763	645	105798	F
30	15	10066	INDIAN	HILLS	UNIT	12	00	31	117595	442	21699	F
30	15	10066	INDIAN	HILLS	UNIT	01	01	30	74977	776	61739	F
30	15	10066	INDIAN	HILLS	UNIT	02	01	28	89088	480	53687	F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 8/22/2001 Time: 08:38:05 AM

08/22/01 08:07:51 CMD : ONGARD

INQUIRE PRODUCTION BY POOL/WELL OG6IPRD OGOMES -TPZ6

Page No: 3

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier: 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 2000 To : 06 2001

______ API Well No Property Name Prodn. Days Production Volumes Well MM/YY Prod Gas Oil Water Stat ______ 30 15 10066 INDIAN HILLS UNIT 03 01 26 116506 944 11829 F 30 15 10066 INDIAN HILLS UNIT 04 01 30 171353 1453 28009 F 30 15 10066 INDIAN HILLS UNIT 05 01 31 188944 2331 65486 F

Reporting Period Total (Gas, Oil) : 2804413 18847 1760368

E0049: User may continue scrolling.

PF02 PF03 EXIT PF04 GoTO PF05 PF06 CONFIRM PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12 PF01 HELP

PF07 BKWD

Date: 8/22/2001 Time: 08:38:07 AM

CMD : ONGARD 08/22/01 08:43:27

OG6IPRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPZ€

Page No: 1

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 1997 To : 06 2001

API Well No Property Name Prodn. Days Production Volumes Mame Prodn. Days Production volumes well

MM/YY Prod Gas Oil Water Stat -----30 15 10066 INDIAN HILLS UNIT 06 98 24 10177 263
30 15 10066 INDIAN HILLS UNIT 07 98 31 22222 242
30 15 10066 INDIAN HILLS UNIT 08 98 21 15312 139
30 15 10066 INDIAN HILLS UNIT 09 98 15 15419 22
30 15 10066 INDIAN HILLS UNIT 10 98 31 50378 92
30 15 10066 INDIAN HILLS UNIT 11 98 20 47611 104
30 15 10066 INDIAN HILLS UNIT 12 98 31 86536 176 F F F F F F

Reporting Period Total (Gas, Oil) :

M0025: Enter PF keys to scroll

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 8/22/2001 Time: 09:13:51 AM

CMD: ONGARD 08/22/01 08:43:38

OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPZ6

Page No: 2

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 1997 To : 06 2001

API Well No Property Name Prodn. Days Production Volumes Well MM/YY Prod Gas Oil Water Stat

30 15 10066 INDIAN HILLS UNIT 01 99 31 130617 159 204054 F
30 15 10066 INDIAN HILLS UNIT 02 99 28 154920 216 195590 F
30 15 10066 INDIAN HILLS UNIT 03 99 11 145637 487 63545 F
30 15 10066 INDIAN HILLS UNIT 04 99 30 204669 455 156125 F
30 15 10066 INDIAN HILLS UNIT 05 99 31 213827 598 193207 F
30 15 10066 INDIAN HILLS UNIT 06 99 30 220143 670 166416 F
30 15 10066 INDIAN HILLS UNIT 07 99 31 235332 702 207521 F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 8/22/2001 Time: 09:13:54 AM

CMD : ONGARD 08/22/01 08:43:40

INQUIRE PRODUCTION BY POOL/WELL OG6IPRD OGOMES -TPZ6

Page No: 3

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 1997 To : 06 2001

_____ API Well No Property Name Prodn. Days Production Volumes Well MM/YY Prod Gas Oil Water Stat 30 15 10066 INDIAN HILLS UNIT 08 99 29 218165 770 187046 F
30 15 10066 INDIAN HILLS UNIT 09 99 29 161908 551 152951 F
30 15 10066 INDIAN HILLS UNIT 10 99 31 225064 894 174586 F
30 15 10066 INDIAN HILLS UNIT 11 99 30 237908 1078 167986 F
30 15 10066 INDIAN HILLS UNIT 12 99 31 257651 1035 172121 F
30 15 10066 INDIAN HILLS UNIT 01 00 31 255998 1039 159415 F
30 15 10066 INDIAN HILLS UNIT 02 00 29 225835 1938 180089 F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF02 PF03 EXIT PF04 GoTO PF05 PF06 CONFIRM PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12 PF01 HELP

PF07 BKWD

Date: 8/22/2001 Time: 09:13:56 AM

CMD :

INQUIRE PRODUCTION BY POOL/WELL OGOMES -TD74 OG6IPRD

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 1997 To : 06 2001

_____ Prodn. Days Production Volumes Well MM/YY Prod Gas Oil Water Stat API Well No Property Name _____ 30 15 10066 INDIAN HILLS UNIT 03 00 31 233636 759 112425 F
30 15 10066 INDIAN HILLS UNIT 04 00 30 209097 1173 97884 F
30 15 10066 INDIAN HILLS UNIT 05 00 31 214391 1207 152369 F
30 15 10066 INDIAN HILLS UNIT 06 00 26 151651 778 129837 F
30 15 10066 INDIAN HILLS UNIT 07 00 31 190438 1545 164148 F
30 15 10066 INDIAN HILLS UNIT 08 00 31 191838 1056 183375 F
30 15 10066 INDIAN HILLS UNIT 09 00 30 169625 1602 140927 F

Reporting Period Total (Gas, Oil) :

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 8/22/2001 Time: 09:13:58 AM

CMD: 08/22/01 08:43:44

OG61PRD INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPZ6

Page No: 5

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 1997 To : 06 2001

API Well No Property Name Prodn. Days Production Volumes Well MM/YY Prod Gas Oil Water Stat

30 15 10066 INDIAN HILLS UNIT 10 00 23 120678 679 91652 F
30 15 10066 INDIAN HILLS UNIT 11 00 20 82763 645 105798 F
30 15 10066 INDIAN HILLS UNIT 12 00 31 117595 442 21699 F
30 15 10066 INDIAN HILLS UNIT 01 01 30 74977 776 61739 F
30 15 10066 INDIAN HILLS UNIT 02 01 28 89088 480 53687 F
30 15 10066 INDIAN HILLS UNIT 03 01 26 116506 944 11829 F
30 15 10066 INDIAN HILLS UNIT 04 01 30 171353 1453 28009 F

Reporting Period Total (Gas, Oil) : 5457909 27500 3801516

E0049: User may continue scrolling.

PF01 HELP PF02 PF03 EXIT PF04 GoTo PF05 PF06 CONFIRM

PF07 BKWD PF08 FWD PF09 PF10 NXTPOOL PF11 NXTOGD PF12

Date: 8/22/2001 Time: 09:14:00 AM

08/22/01 08:43:46 CMD : ONGARD

INQUIRE PRODUCTION BY POOL/WELL OGOMES -TPZ€ OG6IPRD

Page No: 6

OGRID Identifier: 14021 MARATHON OIL CO

Pool Identifier : 79040 INDIAN BASIN; UPPER PENN (PRO GAS)

API Well No : 30 15 10066 Report Period - From : 01 1997 To : 06 2001

Prodn. Days Production Volumes Well API Well No Property Name MM/YY Prod Gas Oil Water Stat _____ 30 15 10066 INDIAN HILLS UNIT 05 01 31 188944 2331 65486 F

Reporting Period Total (Gas, Oil) : 5457909 27500 3801516

E0049: User may continue scrolling.

PF03 EXIT PF04 GOTO PF05 PF06 CONFIRM PF01 HELP PF02 PF08 FWD PF09

PF10 NXTPOOL PF11 NXTOGD PF12 PF07 BKWD

Date: 8/22/2001 Time: 09:14:01 AM

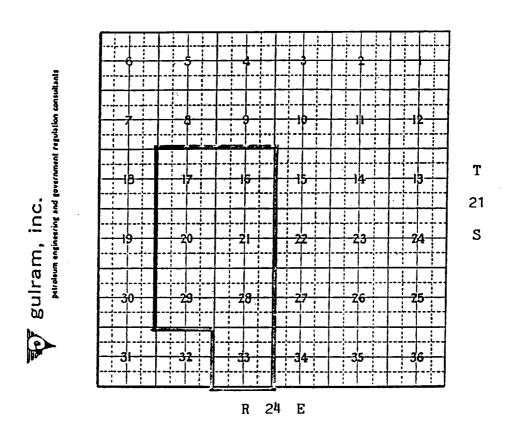
INDIAN HILLS UNIT AREA

14-08-0001-8501

APPROVED: February 20, 1963 EFFECTIVE: February 20, 1963

EXPLORATORY

Eddy County, New Mexico

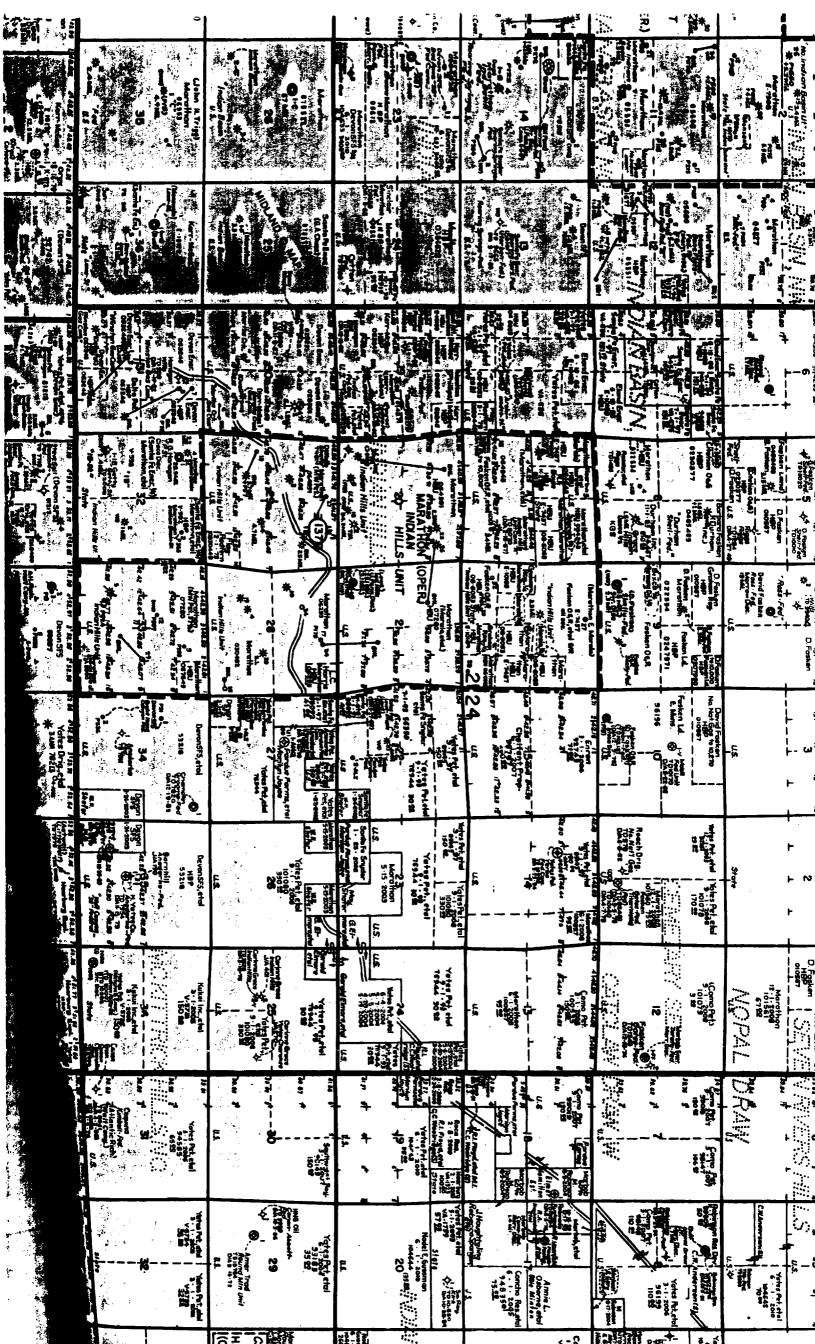


Unit Lands

3,640.00 acres Federal

840.00 acres State

4,480.00 acres Total



Page: 1 Document Name: untitled

CMD :

ONGARD

OG5SECT INQUIRE LAND BY SECTION

07/19/01 17:16:11

OGOMES -TPEU PAGE NO: 1

Sec : 21 Twp : 21S Rng : 24E Section Type : NORMAL

3ec . 21 1wp .	215 Kiig : 24E - 5ecc	TOIL TYPE . NORMAL	
D	l C	2	1
40.00	40.00	38.26	38.29
Federal owned U	 Federal owned U	Federal owned U	Federal owned U
E	F	3	4
40.00	40.00	36.69	36.72
Federal owned U	 Federal owned U	Federal owned U	 Federal owned U
			_
PF01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	PF06
PF07 BKWD PF08	FWD PF09 PRINT	PF10 SDIV PF11	PF12

Date: 7/19/2001 Time: 05:45:26 PM

Page: 1 Document Name: untitled

CMD :

ONGARD

07/19/01 17:16:17

OG5SECT

INQUIRE LAND BY SECTION

OGOMES -TPEU PAGE NO: 2

Sec : 21 Twp : 21S Rng : 24E Section Type : NORMAL

	K	6	5
40.00	40.00	36.35	36.29
Federal owned	 Federal owned	 Federal owned	 Federal owned
U	Tederal Owned U	U	U U
М	N	7	8
40.00	40.00	37.74	37.68
Federal owned U	Federal owned	 Federal owned U	 Federal owned U
A A			
	i	_1	i
PF01 HELP PF02	PF03 EXIT	PF04 GoTo PF05	PF06
PF07 BKWD PF08 FWI	PF09 PRINT	PF10 SDIV PF11	PF12

Date: 7/19/2001 Time: 05:45:32 PM

(June 1990) DEPARTMEN	FD STATES	Straat Straat
Do not use this form for proposals to drill of	PERMIT - " for such proposals	NM 67260-F 6. If Indian, Allottee or Tribe Name
<u> </u>	IN TRIPLICATE	7. If Unit or CA, Agreement Designation INDIAN HILLS UNIT
1. Type of Well Oil Well Well Other 2. Name of Operator		8. Well Name and No. INDIAN HILLS UNIT #1
Marathon Oil Company 3. Address and Telephone No. P.O. Box 552 Midland, TX 79702 4. Location of Well (Footage, Sec., T., R., M., or Survey Des	915/682-1626	9. API Well No. 30-015-10066 10. Field and Pool, or exploratory Area
UL "M" 416' FSL & 176' FWL SECTION 21, T-21-S, R-24-E	cription)	INDIAN BASIN UPPER PENN GAS POOL 11. County or Parish, State
12. CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE	, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE	OF ACTION
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection
	Other	(Note: Report results of scalingle completion on Well Completion or Recompletion Report and Log forms.)

Dividion

As required by ONSHORE ORDER #7. Marathon Oil Company is notifying you of existing and intended methods of water disposal from this well. Produced water from this well will be sent, via pipeline, to one of the wells listed under PRIMARY DISPOSAL on the attached sheets. If additional capacity is required. water may be sent via pipeline (if available) or truck hauled to any of the wells listed under SECONDARY DISPOSAL on the attached sheets.

14. I hereby certify that the foregoing is true and softeet Signed	Title	Engineer Technician	Date	7/22/98
(This space for Federal or Sules office use) Approved by (ORIG, SGD.) GARY GOURLEV Conditions of approval, if any:	Title	PETROLEUM ENGINEEF	Date	JUL 3 1 1999

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statesments or representations as to any matter within its jurisdiction

^{13.} Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled. give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

ATTACHMENT I

Marathon Oil Company Indian Basin

Primary Disposal: MOC Battery Disposal System

Operated By: Marathon Oil Company

Well Name: MOC SWD # 1

UL "M" Section 7, T-20-S, R-25-E Location:

Permit#: **SWD 448**

Operated By: Marathon Oil Company Well Name: Indian Hills State Com # 7

UL "F" Section 36, T-20-S, R-24-E Location:

Permit #: SWD 570

Primary Disposal: IBGP Disposal System

Operated By: Marathon Oil Company Well Name: Indian Basin Gas Com # 1

Location: UL "E" Section 23, T-21-S, R-23-E

Permit #: **SWD 416**

Operated By: Marathon Oil Company Marathon Federal # 1 Well Name:

UL "K" Section 24, T-21-S, R-23-E Location:

Permit #: **SWD 55**

Primary Disposal: Indian Hills Unit Disposal System

Operated By: Marathon Oil Company Well Name: Rocky Hills #1 SWD

Location: UL "O" Section 19, T-21-S, R-24-E

Permit #: SWD 691

Secondary Disposal

Well Name: Springs SWD Operator: Rowland

Location: Sec 27, T-20-S, R-26-E

Permit#: **SWD 86** July 22, 1998

Well Name:

BKE

Operator:

Rowland

Location:

Sec 13, T-23-S, R-27-E

Permit#:

SWD 495

Well Name:

Salty Bill SWD

Operator:

Grace Oil

Location:

Sec 36, T-22-S, R-26-E

Permit#:

SWD R-118 Fed ID # 850303046

Well Name:

Big Eddy Federal 100 SWD (Whistle Stop)

Operator:

Dakota Resources

Location:

Unit "L", Sec 8, T-21-S, R-28-E

Permit#:

SWD 461

Well Name:

Dorstate SWD

Operator:

Mesquite Services

Location:

Sec 27, T25S, R26E

Permit#:

SWD 247

Well Name:

Aikman SWD State # 1

Location:

Section 27, T-19-S, R-25-E

Permit#:

SWD 417

Well Name:

Holstun # 1 SWD

Operated By: Nearburg Producing Company Section 4, T-20-S, R-25-E

Location: Permit#:

R 9269

Well Name:

Charlotte McKay Federal # 1 SWD

Operated By: Yates Petroleum

Location:

Section 25, T-20-S, R-25-E

Permit#:

SWD 460

Well Name:

Walter Solt State No. 1

Location:

Unit "L", Sec 5, T-18-S, R-28-E

Permit#:

SWD 318

Well Name:

Dagger Draw Salt Water Disposal

Location:

Sec 22, T-19-S, R-25-E

Permit#:

R7637

July 22, 1998

Well Name:

Corrine Grace Salt Water Disposal Well

Location:

Sec 36, T-22-S, R-26-E

Permit#:

K6290

Well Name:

Myrtle-Myra WIW # 1

Location:

Sec 21, T-21-S, R-27-E

Permit#:

NMOCD-FWD-391

Solids that can't be hauled into one of these disposal sites will be sent to:

Well Name:

CRI SWD

Location:

Sec 27, T20S, R32E

Permit #:

SWD R91166

Form 3160-5 (June 1990)

N.M. Oil Cons. Division **UNITED STATES** DEPARTMENT OF THE INTERIOR 311 S. 1st Street BUREAU OF LAND MANAGEMENT Artesia, NM 88210-283

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993

•	LOESO	-	mRmmnnn	a cou	Sellel Mo.	
		_	_			

Do not use this form for proposals to drill	or to deepen or reentry to a different reservoir. PERMIT - " for such proposals	6. If Indian, Allottee or Tribe Name
SUBMIT	IN TRIPLICATE 1252527	7. If Unit or CA, Agreement Designation INDIAN HILLS UNIT
1. Type of Well Oil Well Well Other 2. Name of Operator		8. Well Name and No. INDIAN HILLS UNIT #1
Marathon Oil Company 3. Address and Telephone No. P.O. Box 552 Midland, TX 79702	915/682-1626	9. API Well No. 30-015-10066 10. Field and Pool, or exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey Det UL "M" 416' FSL & 176' FWL SECTION 21, T-21-S, R-24-E		INDIAN BASIN UPPER PENN GAS POOL 11. County or Parish, State
CHECK APPROPRIATE BOX(s)	TO INDICATE NATURE OF NOTICE, REPORT,	EDDY NM NM NH
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent X Subsequent Report Final Abandonment Notice	Abandonment X Recompletion Plugging Back Casing Repair Altering Casing X Other INIT COMPLETION-RE-ENTR	
Describe Proposed or Completed Operations (Clearly state all	X Other INIT COMPLETION-RE-ENTR pertinent details, and give pertinent dates, including estimated date of starting	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

MARATHON OIL COMPANY re-entered this well and recompleted it as follows:

MIRU PU. NU BOP. Test to 1000 psi. PU 6-1/8" bit, six 4-3/4" DCs on 2-7/8" tubing. Tagged DV @ 6144'. Drilled DV & cement to 6215'. Tested to 1000 psi. PU 2-7/8" tubing. Tagged PBTD @ 7833'. Displaced csg. w/clean fluid. POOH. RU wireline. Ran CBL-CCL from 7824'-5800'. Showed good bond. RIH w/4" port plug guns loaded with 23 tungsten liner charges at 4 JSPF w/120 degree phasing. Perfed Upper Penn formation from 7300'-7310', 7326'-7362', 7368'-7430' for a total of 864 holes. RD wireline. RIH w/7" PPI tool on 2-7/8" tbg to 7435'. Set packer & dropped standing valve. RU Fracmaster. Spotted 500 gals. 28% HCl acid to packer. Reversed out. Dropped fluid control valve. Spotted 15% NEFE acid to PPI tool. Set packer @ 7430'. PUH treating perfs. from 7430'-7368', 7362'-7326', & 7310'-7300' in 2' increments w/100 gals. per foot for a total of 10,800 gals. Pulled up and set packer @ 7230'. Fished FCV & standing valve. Loaded & tested annulus to 500 psi. RD Fracmaster. RU swab unit. Recovered 80 bbls. fluid. Released PPI packer. POOH w/PPI tool. RIH w/7" RBP. Set @ 3022'. Loaded & tested well. POOH leaving killstring in hole. POOH w/killstring. RIH w/2 ODI P-7 submersible pumps, two 190 HP motors w/5·1/2" shroud, on 240 jts. 2·7/8" J-55 tbg. Released RBP @ 3022'. RIH & landed RBP @ 7615'. Ran 3/8" capillary tbg. from 7505' to surface. ND BOP. NU Seaboard head. RD PU.

4. I hereby certify that the foregoing is true and correct Signed Linny are	Title Enginee	ACCEPTED FOR RECORD 1/22/198 PETER W. CHESTER	
(This space for Federal or State office use) Approved by	Title	Page 1	
Conditions of approval, if any:		AUG 25 GES	
Sur 18 V.S.C. Service 1001 makes in a size for an extra bearing	de and millfulle to make	BUREAU OF LAND SAND A COMPLETE OF THE CONTROL OF TH	

Form 3160-4 (July 1992)

UNITED STATES

SUBMIT IN DUPLICATE*

(See other in structions on

FORM APPROVED OMB NO. 1004-0137 Expires: February 28, 1995

DEPARTMENT OF THE INTERIOR 1. LEASE DESIGNATION AND SERIAL NO. BUREAU OF LAND MANAGEMENT NH 47260-F WELL COMPLETION OR RECOMPLETION REPORT AND PUBLIC IF INDIAN, ALLOTTEE OR TRIBE NAME 841 S. 1st Street 7. UNIT AGREEMENT NAME ia. TYPE OF WELL: METT X WELL [Artesia, NM 88210-2834 INDIAN HILLS UNIT b. TYPE OF COMPLETION: DEEP-WELL . PLUG DIFF. Other RE-FNTRY FARM OR LEASE NAME, WELL NO. RESVE 2. NAME OF OPERATOR INDIAN HILLS UNIT #1 2222324252 Marathon 011 Company 9. API WELL NO. 3. ADDRESS AND TELEPHONE NO. ેં91<u>5/682-1626</u> 30-015-10066 P.O. Box 552 Midland, TX 79702 Sec. FIELD AND POOL, OR WILDCAT 4. LOCATION OF WELL (Report location clearly and in accordance with any State INDIAN BASIN UPPER PENN GAS At surface 660/54W UL "M", 416' FSL & 176' POOL SEC., T., R., M., OR BLK. At top prod. interval reported below AND SURVEY OR AREA SECTION 21. R-24-E At total depth 14. PERMIT NO. DATE ISSUED COUNTY OR PARISH EDDY 15. DATE SPUDDED 16. DATE T.D. REACHED 17. DATE COMPL. (Ready to prod.) 18. ELEVATIONS (DF, RKB, RT, GR, ETC.) 19. ELEV. CASINGHEAD 4-22-98 GL-3.704': KB-3.720 5-18-98 6-1-98 20. TOTAL DEPTH, MD & TVD 21. PLUG, BACK T.D., MD & TVD 22. IF MULTIPLE COMPL., 23. INTERVALS ROTARY TOOLS CABLE TOOLS HOW MANY DRILLED BY 7926 MD 7833 ALL 24. PRODUCING INTERVAL(S), OF THIS COMPLETION - TOP, BOTTOM, NAME (MD AND TVD)* 25. WAS DESCTIONAL. FURVEY MADE 7300' - 7430' UPPER PENN 26. TYPE ELECTRIC AND OTHER LOGS RUN 27. WAS WELL CORED PLATFORM EXPRESS W/Hals (DLL-MSFL-LLS-GR-CAL-LDT-CNL), NGT/CAL, FMI/GR, CBL/CLL NO CASING RECORD (Report all strings set in well) TOP OF CEMENT, CEMENTING RECORD AMOUNT FULLED CASING SIZE/GRADE WEIGHT, LB./FT. DEPTH SET (MD) HOLE SIZE 304 13-3/8 48# 17-1/2 960 SX CIRCULATED 9-5/8* 36# 3.098 12-1/4" 1213 SX CIRCULATED 23 & 26#.K-55 7.865 8-3/4" 900 SX CIRC. 170 SX TUBING RECORD LINER RECORD 29. SACKS CEMENT* SIZE SIZE TOP (MD) BOTTOM (MD) SCREEN (MD) DEPTH SET (MD) PACKER SET O(D) 7615' 2-7/8" RBP-7615 31. PERFORATION RECORD (Interval, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 7300'-7312', 7326'-7362', 7368'-7430' DEPTH INTERVAL (MD) AMOUNT AND KIND OF MATERIAL LEED

					L				
33.*				PRODUCTI	ON				
DATE FIRST PRODUCTIO	N	PRODUCTI	ON METHOD (Flowi	ıg, gas lift, pumping	- size and type of	рилф)			US (Producing or
6-5-98		2 001	"P-7" SUB.	PUMPS, 190 H	MOTORS W/	5-1/2" SHROUD		shut-in)	PRODUCING
DATE OF TEST	HOURS TE	STED	CHOKE SIZE	PROD'N. FOR	OIL - BBL	GAS - MCF.	, WATI	ER - BBL.	GAS - OEL RATEO
7/20/98	24			TEST PERIOD	36	845	466	5	23.472
FLOW. TUBING PRESS.	CASING P	RESSURE	CALCULATED	OIL - BBL.	GAS - MCI	. WATE	R - BBL.	Off	GRAVITY - AM (CORR.)
5260	3140		24-HOUR RATE	1	ACC	EPTED FOR RECORD		48.	2
34. DISPOSITION OF GAS	(Sold, used	for fuel, ren	ted, etc.)		PETE	R W. CHESTE	TEST	TINESSED BY	•
SOLD						CHESTE	R		
35. LIST OF ATTACHME	NTS						1		
LOGS					AU	25 1000			
36. I hereby certify that the	foregoing and at	tached informs	tigs()s complete and co		il eveilable secords	- 40 103B	-I		
granna J	, ! 	$\sqrt{2}$	a bo	/ FNG	THE ER GROCHI	NIGIAN ANAGEN	- 1	7	/22/98
SIGNEDX_		7) work	LE = [KOSWELL	RESOURCE ARE	TENT	DATE -	
	*(See	nstruction	s and Spaces fo	or Additional Date	on Reverse S	ide)	A		

7300-7430

10.800 GALS. 15% NEFE ACID

TOTAL OF 864 HOLES, SHOT AT 4 JSPF W/120 DEGREE

PHASING

State of New Mexico Energy, Minerals & Natural Resources Department

District I PO Box 1980, Hobbs, NM 88241-1980 District II PO Drawer DD, Artesia, NM 88211-0719 District III 1000 Rio Brazos Rd., Aztec, NM 87410

OIL CONSERVATION DIVISION 2040 South Pacheco Santa Fe, NM 87505

Form C-104 Revised October 18, 1994 Instructions on back Submit to Appropriate District Office 5 Copies

District IV 2040 South Pacheco,	Santa Fe, N	лм 87505			•						AME	NDED REPORT
I.			T FOR A	LLOWAE	BLE <u>AN</u>	ID AL	J THO I	RIZAT	TON TO			r
		¹ Ope	erator name an	nd Address					T	² OGRID	Number	
Marathon O	il Compar	ny								140)21	
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Midland, T) 4 A	X 79702 PI Number					Pool Nan	me		REQUEST	ALLOWAB	LE FOR	RE-ENTRY Pool Code
	0-015-100	066		INDIA	N BASIN			AS POOL	L			79040
_	perty Code					operty N						ell Number
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UL or lot no.	Section	Township	Range	Lot. Idn	Feet from		North/So		Feet from the	f	West line	County
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Date

Form 3160-5 (June 1990)

4.50 9.95

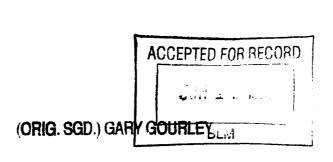
UNITED STATES DEPARTMENT OF THE INTERIOR

N.M	الر	ز
311	3. 1 s t	S
	a, N	

FORM APPROVED get Bureau No. 1004-0135

la Uivision

	IN TRIPLICATE	7. If Unit or CA, Agreement Designation INDIAN HILLS UNIT
1. Type of Well Other	,	8. Well Name and No. INDIAN HILLS UNIT #1 9. API Well No. 30-015-10000 10. Field and Pool, or exploratory Area INDIAN BASIN U. PENN 11. County or Parish, State EDDY NM
TYPE OF SUBMISSION	TYPE OF ACTION	
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing X Other RE - ENTRY	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Completion or Recompletion Report and Log for



28 10:40		
 127	95	

14. I hereby certify that the foregoing is transland correct Signed	Title DRILLING SUPERINTENDENT	5/27/98 Date 1/29/98
(This space for Federal or State office use) Approved by Conditions of approval, if any:	Title	Date

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statem or representations as to any matter within its jurisdiction.

MARATHON OIL COMPANY

Indian Hills Unit # 1 UL "M" 660' FSL & 660' FWL Sec. 21, T-21-S, R-24-E Eddy Co., N.M.

4/21/98 MIRU Mc Vay # 4. NU 11" 3M dual ram BOPE, annular, choke manifold, gas separator. Tested BOPE w/ rig pump.

Drilled 8.75" hole through cement plug 0 - 321. TIH and tagged plug @ 2959'. Drilled cement 2959' - 3125'. Tagged plug #3 @ 6000'. Drilled cement to 6030'. TIH open ended to set kick off plug @ 6012', at 8.5 degrees.. Pumped 100 sx "H". WOC Tagged cement plug @ 5849', drilled cement to 5984',made kick - off. Drilled to 6230', TOH to change BHA, TIH and could not enter side - track. TIH open - ended to 6114', set balanced cement plug W/ 350 sx., "H" w/ 1% CFR-3, Wt - 13.0, yield - .97. WOC, Tagged cement @ 5354', dressed off plug to 5390', PU motor and bent sub to make kick - off. Drilled to 7931'. TD @ 5/17/98.Logged well as follows: Platform Express W/ HALS/ NGT/FMI-GR TD - 7916'. CNL/GR/CAL to surface.

Ran 7" production casing as follows: Float shoe, 2 jts, 26#, float collar, 18 jts, 26#, marker jt., 20 jts, 26#, ESC tool, 37 jts 26 #, 103 jts 23#, 2 jts 26#. Shoe @ 7765', FC @ 7773', Marker jt @ 6971', DV @ 6083'.

Cemented 1st stage w/ 250 sx Modified Super H w/ .4% CFR-322, 5 pps Gilsonite, .5% halad 344, Wt - 13.0, yield - 1.68. Opened DV and circulated 5 sx to pit. Cemented 2nd stage w/ 650 sx Interfil C w/ .25 pps flocele, 3 pps Gilsonite, Wt - 11.9, yield 2.46. Tailed in w/ 100 sx C. Circulated 165 sx. Pug down @ 0245 hrs 5/17/98.

Set 7" slips, cut casing and installed 11" 3M X 7-1/16" 3M tubing head. Tested seals to 3000 psi.

Released rig @ 0700 hrs 5/17/98.

UNITED STATES

811 S. 1ST ST.

ARTES CONNEY THE RESERVE OF THE STREET OF

FORM APPROVED

OMB	NO.	1004-	013	b	
xpires:	Feb	mary	28.	1995	

				1010130 3		·	
	DEPARTME	NT OF THE	INTER	OR		5. LEASE DESIGNATIO	N AND SERIAL NO.
	BUREAU OF	LAND MANAG	SEMENT			NM67260-F	
						6. IF INDIAN, ALLOTTE	EE OR TRIBE NAME
APPL	ICATION FOR	PERMIT TO	DRILL	OR DEEP	EN		
a. TYPE OF WORK			_			7. UNIT AGREEMENT S	
DR b. TYPE OF WELL		DEEPEN		777700		INDIAN HILLS	5 UNIT 6409
OIL WELL	GAS X OTHER		SINGLE ZONE	MULTII ZONE	řle 🔙	8. FARM OR LEASE NA	ME, WELL NO.
. NAME OF OPERATOR			/ ₂ %	*	, t.		1
Marathon Oil Comp	oanv 140	721	100	SON SER	.3 / .C.	9. API WELL NO.	
. ADDRESS AND TELEPHONE			***	1990	۱ د. ا د	30-015-10066	i
P.O. Box 552 Mid	lland, TX 79702		T TO	RECEINED	582 - 16 2 6	10. FIELD AND POOL, O	
	ort location clearly and in accord	ance with the	farements.*)	OCD - ARTES	111	INDIAN BASIN	I UPPER PENN
At surface		LIKE AF	PROVAL	000	- 37/		
J L "M" 660' FSL At proposed prod. zone	. & 660' FWL	BY STAT		· · · · · · · · · · · · · · · · · · ·	37	11. SEC., T., R., M., OR AND SURVEY OR AR	
At proposed prod. zone		01010		NA TOI	a		
A INSTANCE IN MILES AND	DIRECTION FROM NEAREST TOV	UN OR POST OFFICE	HUVUX-	LUCALIUI	 	SEC 21, 21-S	
		N OK POST OFFICE				EDDY	NM
18 MILES NW OF CA 3. DISTANCE FROM PROPOSI			16. NO. OF ACR	EC IN I CACE	I NO OF	OBES AUSTONIO	1 Mil
LOCATION TO NEAREST PROPERTY OR LEASE LINE	C ST		io. No. of ACR	∧ LEASE	TO THIS	VELL (4/)	
(Also to nearest drig. unit	line, if anv) 4620		4 480 1	<u> </u>		<u>640</u>	
 DISTANCE FROM PROPOSITO NEAREST WELL, DRILL 	ED LOCATION*		19. PROPOSED I	EPTH	20. ROTARY	OR CABLE TOOLS	
OR APPLIED FOR, ON THIS			8200'		ROTAL	RY	
1. ELEVATIONS (Show when	her DF,RT, GR, etc.)					22. APPROX. DATE W	
3704 G	۷					425/9	8
3.	1	PROPOSED CASING	AND CEMEN	rlsead C	ONTRO!	LED WATER	Basin
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT		SETTING DEPTH		QUANTITY OF C	EMENT

PROPOSED TO RE-ENTER WELL, MAKE SIDETRACK AROUND 7" CSG CUT @ 6125' AND DRILL TO 8200' TO RECOMPLETE IN THE SEE ATTACHED FOR DETAIL.

36

304

3098.

960-CIRCULATED

1213-CIRCULATED

*CASING CEMENTED IN PLACE

13 3/8"

9 5/8"

* 17 1/2"

* 12 1/4"

24.

APPROVAL SUBJECT TO **GENERAL REQUIREMENTS AND** SPECIAL STIPULATIONS ATTACHED

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any,

SIGNED WULKEY). Oucare ITLE DR	RILLING SUPERINTENDENT DATE 12/18/97
(This space for Federal of State office use)	
PERMIT NO	APPROVAL DATE: rights in the subject lease which would entitle the applicant to conduct operations thereon.
	ADM. MINERALS

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

State of New Mexico Energy, Minerals and Natural Resources Department

Form C-102 Revised 1-1-89

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

OIL CONSERVATION DIVISION P.O. Box 2088

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

Santa Fe, New Mexico 87504-2088

1997 CEC 22 P 1: 11

DISTRICT III

Operator	· · · · · · · · · · · · · · · · · · ·			
		Lease	INDIAN HILLS UNIT	ROS VELL FOR TO
Unit Letter Section	21 Township 21S	Range	24-E	County Eddy
Actual Footage Location of V	So	uth line and		West line
Ground level Elev. 3704	Producing Formation U Penn	i Pool	DIAN BASIN	Dedicated Acress:
2. If more than on unstization, force Yes If answer is "no" I this form if necess No allowable will	te lease is dedicated to the was lease of different ownerships-pooling, etc.? No I list the owners and tract dead stary. be assigned to the west until	p is dedicated to the well, have f answer is "yes" type of consol riptions which have actually be	the interest of all owners been condition en consolidated. (Use reverse sidelities)	nsolidated by communitization.
			LEASE BOUNDARY	OPERATOR CERTIFICATION I hereby certify that the information contained herein in true and complete to the best of my knowledge and belief. Signature Printed Name D. P. Nordt Postuon Drilling Superintendent Company Marathon Oil Company Date 12/18/97 SURVEYOR CERTIFICATION
660'				I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed Signature & Seal of Professional Surveyor
0 330 660 990 1;	320 1650 1980 2310	2640 2000 150	0 1000 500 0	

FORM	C-128
Revised	5/1/57

NUMBER 97 : 3P16		
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NEW MEXICO OIL CONSERVATIL. COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

LANG BPFICE								
**************************************		SEE INST	RUCTIONS	FOR COM	PLETING	THIS FORM ON	THE REVI	ERSE SIDE
				\vdash	\Box	1 -		
.'				<u></u>	עוע	<u> </u>		
Operator				Lease	N A			Well No.
Palph Love					dar il	is mut	7	
Unit Letter	Section	Township		Rang		County		
M	1	7-21	c	1		Eddy		
Actual Footage Lo	cation of Well:	1-41	-0		-\$1-5			
6 60	feet from the	South	line and	660		feet from the	West	line
Ground Level Elev	. Producing F			Pool				Dedicated Acteage:
3704				W11	dost			40 Acres
who has the rig another. (65-) 2. If the answer to	bt to drill into an 3–29 (e) NMSA 19 o question one is NO	d to produce / 935 Comp.) "'no," have th If answer is "	rom any poone interests a	l and to ap of all the c of Consoli and their r	propriate i	he production on consolidated interests below	by communi	("Ouner" means the personself or for himself and tization agreement or other-
					Land Desc		·	
		SECTI	ON B				7	CERTIFICATION
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T					 ·	,		February 16, 1903
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0 330 660 9	90 <i>1320</i> 1660 1	1 980 2310 26	40 200	O 1500	1000	500 0	Certificat	e No. 3280

Indian Hills Unit #1
Indian Basin Field
416' FSL & 176' FWL Sec 21, T21S, R24E
Eddy County, NM

Existing Casing (Original hole drilled 1963)

Surface:

13 3/8" set at 304'. Cemented with 960 sxs.

Intermediate: 9 5/8" 36# set at 3098'. Cemented 1163 sxs. TOC @ 184'. Topped out with 50 sxs.

Production:

7" 23#, 26# & 29# N80 set at 10160' First stage cemented with 100 sxs. Second stage

cemented with 600 sxs. Stage tool at 6400' by temperature survey.

Well Abandonment (8/92)

Set CIBP at 9115' and capped with 10 sxs.

Cut casing at 6100'

Spotted 40 sxs from 6175' to 6002' (7" casing stub), tagged plug.

Spotted 40 sxs from 3117' to 2952' (9 5/8" casing shoe), tagged plug.

Spotted 35 sxs from 317' to surface.

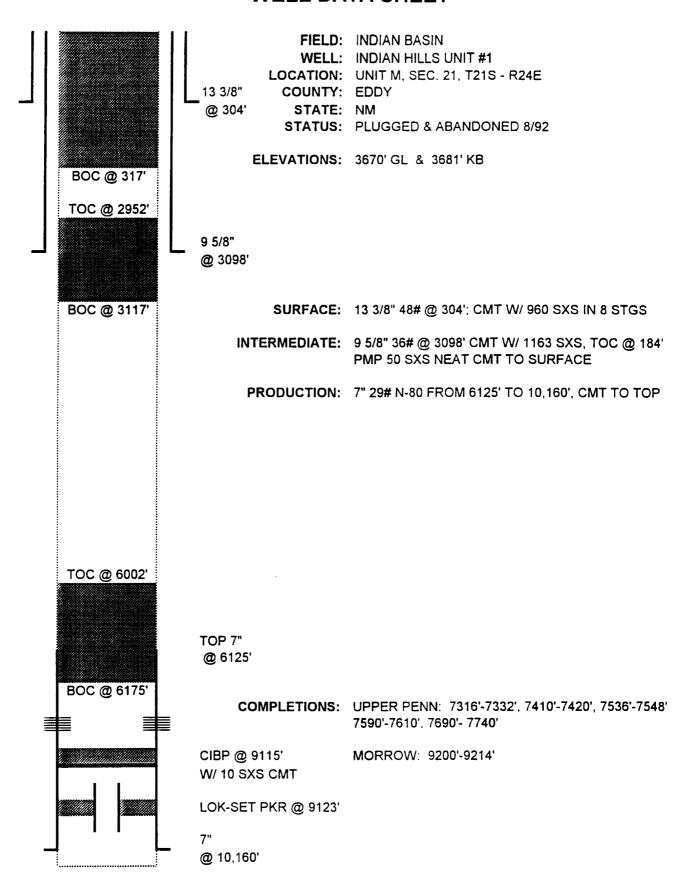
Installed dry hole marker.

Re-entry procedure

- 1. MIRU, NU & test 7 1/16" 5M BOPE.
- 2. Drill out cement plugs at surface to 317', 2952' to 3117'. RIH tag cement plug at 6002'. POOH.
- 3. RIH open ended. Spot 175 sxs kick off plug from 6002' to 5700' (includes 40% excess). POOH & WOC.
- 4. RIH w/ bit. Dress off cement plug from 5700' to 5750'. POOH.
- 5. RIH w/ bit and motor. Blind side track around existing casing. Build to 8 degrees at 6300'. Hold at 8 degrees to 6600'. Drop 2 degrees/100' until vertical at 7000'. Drill vertical hole to ~8200'. New well will be approximately 100' from existing wellbore.
- 6. Log well. Run & cement 7" 23# (surf to 4800') and 26# (4800' to TD) K55 casing. Cement 1st stage with 250 sxs, 2nd stage w/ 750 sxs. Set stage tool at 6400'. RDMO.
- 7. Complete well in Upper Penn based on logs.

DRH 12/15/97

WELL DATA SHEET



Thirteen Point Surface Use Plan MARATHON OIL COMPANY

Indian Hills Unit No. 1 Sec. 21, T-21-S, R-24-E Eddy County, New Mexico

- 1. <u>Existing Roads</u>: Refer to Vicinity Lease Map.
 - a. The proposed wellsite is staked and the surveyor's plat is attached.
 - To reach the location from Carlsbad, New Mexico: Follow Hwy. 285 North of Carlsbad 11 miles. Turn left on 137. Go 6 miles South. Turn right on Marathon Road (401). Follow 401 1.0 miles to an existing lease road, turn right .25 miles into location.
 - c. Existing roads within a one-mile radius (refer to Vicinity Lease Map).
 - The existing road will be maintained as necessary to provide access during the drilling operation.
- 2. <u>Planned Access Road</u>: Refer to Vicinity Lease Map.

Access will be by existing lease roads, no new lease roads will be required. The access road will enter the drilling pad on the Southwest corner. The drilling location will have a V-door facing East.

- 3. <u>Location of Existing Wells</u>: See Vicinity Lease Map.
- 4. Location of Existing and Proposed Production Facilities within a one-mile radius:
 - a. Existing: There are nine oil and gas wells operated by Marathon and Santa Fe within a one-mile radius of the proposed location. These locations have production facilities including separators, condensate, oil, water starage tanks. Marathon and Santa Fe operate a variety of dehydrators, meter runs, and several gathering lines in the one-mile radius.
 - b. New Facilities: The proposed location will have a separator and gas sales line. The actual equipment and its configuration will be determined after the well is completed.
 - c. Rehabilitation of disturbed areas no longer needed for operations will be accomplished by grading, leveling and seeding as recommended.

5. Location and Type of Water Supply:

- a. Source: Indian Basin Gas Plant, SW/4, NE/4, Sec. 23, T-21-S, R-23-E.
- b. The water will be trucked by a contractor over existing roads to the well location. No new construction will be required on/along the water route.
- No water well will be drilled on this location.

6. Source of Construction Materials:

- a. Construction materials may be obtained from the construction site, a pit to be determined by
- b. If production is obtained, native materials will be used on the location and for installation of production facilities.
- c. On-site inspection may dictate any changes in location construction.

7. Methods of Handling Waste Material Disposal:

- a. Cuttings will be deposited in the reserve pit.
- b. Drilling fluids contained in reserve pit and allowed to evaporate. Free water will be removed and transported to an approved disposal site to accelerate pit drying.
- c. Produced fluids none anticipated.
- d. A portable chemical toilet will be provided.
- e. Garbage and other waste material garbage and trash will be stored in a receptacle on location and periodically hauled to an approved sanitary landfill.
- f. After the rig moves out, all materials not necessary for operations will be removed. Pits will be backfilled and leveled. The location will be cleaned of all trash and debris.
- 8. <u>Ancillary Facilities</u>: Camp facilities will not be required. Portable trailers will be on location to house a company drilling foreman and contract toolpusher.

9. Wellsite Layout:

- a. The wellpad layout shows the drillsite layout as staked. Cross-sections have been drafted to visualize the planned cuts and fills across the location. Topsoil will be stockpiled per specifications.
- b. The reserve pit will be fenced on three sides before re-entry begins. The fourth side will be fenced when the drilling rig leaves location.
- c. The reserve pit will be lined (8 mil material).

10. Plans for Restoration of the Surface:

- a. Backfilling, leveling, and contouring are planned as soon as all pits have dried. Waste disposal and spoiled materials will be buried or hauled away immediately after drilling is completed. If production is obtained, the unused area will be restored as soon as possible.
- b. The soil banked material will be spread over the area. Revegetation will be accomplished by planting mixed grasses as per formula by BLM. Revegetation is recommended for road area, as well as around the drill pad.
- c. The reserve pit will be fenced during drilling operations. Fencing will be maintained until leveling and cleanup are accomplished.
- d. If any oil is in the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged overhead or covered with mesh.
- e. The rehabilitation operations will begin after the drilling rig is removed. Removal of oil or other adverse substances will begin immediately or area will be flagged and fenced. Other cleanup will be done as needed. Planting and revegetation will be done between July 15 and September 15.

11. Other Information:

- a. There are no significant archaeological or cultural sites visible in the area of disturbance. A cultural resource survey was performed by Archaeological Consultants Inc. of Roswell.
- b. General topography: Shown on Vicinity Lease Map. The terrain at the wellsite is gentle hillside. Vegetation is primarily sage brush and natural grasses.
- Animal life: Prairie dogs, domestic livestock, rabbits and native rodents and predators.
- d. Dwellings (nearest): Approximately 2 miles.
- e. General location: Approximately 15 miles Northwest of Carlsbad, New Mexico.
- f. Drainage: Internal
- g. Surface Owner: The surface is owned by the Federal Government.

12. Operator Representatives:

David Nordt
Drilling, Completion, & Workover Superintendent
P. O. Box 552
Midland, TX 79702
800/351-1417
915/682-1626

13. <u>Certification</u>:

I hereby certify that I, or someone under my direct supervision, 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 and belief, 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.

Date

12/18/97

D. P. Nordt

W.J. Ouware

DRILLING PROGRAM MARATHON OIL COMPANY

Indian Hills Unit #1

1. Estimated KB Elevation: 3719'

TOP		BASE	FLUID		
<u>FORMATION</u>	MEASURED	<u>SUBSEA</u>	MEASURED	SUBSEA	CONTENT
Queen	Surface	+3719'	650'	+3069'	water
San Andres	650'	+3069'	2250'	+1469'	water
Glorietta	2250'	+1469'	3300'	+419'	
Delaware	3300'	+419'	4300'	-581'	
Bone Spring	4300'	-581'	5950'	-2231'	oil gas
Wolfcamp	5950'	-2231'	7520'	-3801'	oil gas
B/Permian Shale	7520'.	-3801'	7530'	-3811'	3
U. Penn	7530'	-3811'	7550'	-3831'	gas, oil, water

FORMATION	EST <u>PSIG</u>	SBHP PPG EMW	EST SBHT DEG f PPM	H2S (obj. ma	SIGNIFICANCE arker. etc.)
Bone Springs	1210	8.5		500	marker
Wolfcamp	1680	9.0			marker
B/Permian Shale 1810	9.0				objective pay
U. Penn	2050	9.0		5000	objective pay

2. See (1) above.

If any unexpected water or mineral bearing zones are encountered, they will be reported, evaluated, and protected as circumstances and regulations require.

3. Pressure Control Equipment:

9 5/8" Surface: 11" 3M annular tested to 200#/2000#, 11" 3M dual rams, choke manifold and mud cross, tested to 300#/3000#.

Auxiliary Equipment:

Surface Hole: Annular or rotating head w/air rig.

Intermediate Hole: N/A

Production Hole: Flow indicator, PVT, H₂S Sensors, air packs, stroke counter, rotating head.

BOP systems will be consistent with API RP 53. Blowout preventers will be installed and tested prior to drilling the surface casing plug and will remain in use until the well is completed or abandoned. Preventers will be inspected and operated at least daily to ensure good mechanical working order, and this inspection recorded on the daily drilling report. Preventers and casing will be pressure tested before drilling casing cement plugs.

Upper and lower kelly cocks with valve handle and safety valve and subs to fit all drillstring connections in use will be available on rig floor.

Test Frequency

- When installed.
- 2. Anytime a pressure seal is broken (test confined only to affected equipment).
- 3. At least every 20 days.
- 4. Blind and pipe rams shall be activated each trip but not more than once/day.

4. Casing and Cement Program:

DEPT FROM	H <u>TO</u>	SECTION LENGT		HOLE SIZE	CSG SIZE	WT. <u>PPF</u>	GRADE	THRE/		NEW USED
0 0 0 4800'	304' 3098' 4800' 8200'	304' 3098' 4800' 3400'		8.75" 8.75"	13.625" 9.625" 7" 7"	IN PLAC IN PLAC 23 26		8rd, LT 8rd, LT		New New
Casing String	DV <u>Depth</u>	Sta.	Lead <u>Tail</u>	Amt SXS	Type Cement	CF/SX	Yield PPG.	Wt. TOC	Additiv	<u>es</u>
7*	±6400'	1	L	270	"H" Lite		1.28	15.3	5600'	5 pps Silica, .6% Halad 9, 3% salt, 3 pps Gilsonite
7"		2	L	800	65:35 P	oz	1.91	12.6	5 5 00'	5 pps, salt. 3 pps Gilsonite, 4% Gel, 1/4 pps Cello
7"		2	т	100	"C" Nea	t	1.32	14.8	±1000'	2% CaCl2

Each stage will be preceded by an appropriate mud flush. Actual production hole volumes will be based on the caliper volume plus 15% excess.

Centralizer Program:

7" Conventional centralizers middle of 1st joint, then every joint to 7500', and 1 centralizer every 4th joint thereafter to 1100'.

5. Mud Program:

DEP1	гн <u>ТО</u>	MUD TYPE	WEIGH (PPG)	T <u>VIS</u>	WL CC	ADDITIVES	VISUAL Montr.
0	5700'	fresh	8.5	28-32	N/C	Gel, caustic	Reserve
5700'	8200'	cut brine	9.0	32-36	<20	Salt gel. starch, caustic	Steel Pits

Sufficient quantities of additives will be on location to maintain above mud properties for any anticipated well conditions.

6. <u>Logging. Testing & Coring Programs</u>:

LOG/TEST/CORE/MUDLOG/OTHER	INTE		REMARKS
DLL/MSFL/GR/CNL/LDT/CAL	TD	5000'	
LDT/CNL/GR/CAL	TD	surf casing	
MUD LOGGER	6000'	TD	ROP, Lithology, Gas Analysis, Chromatograph

NO CORES OR DST'S

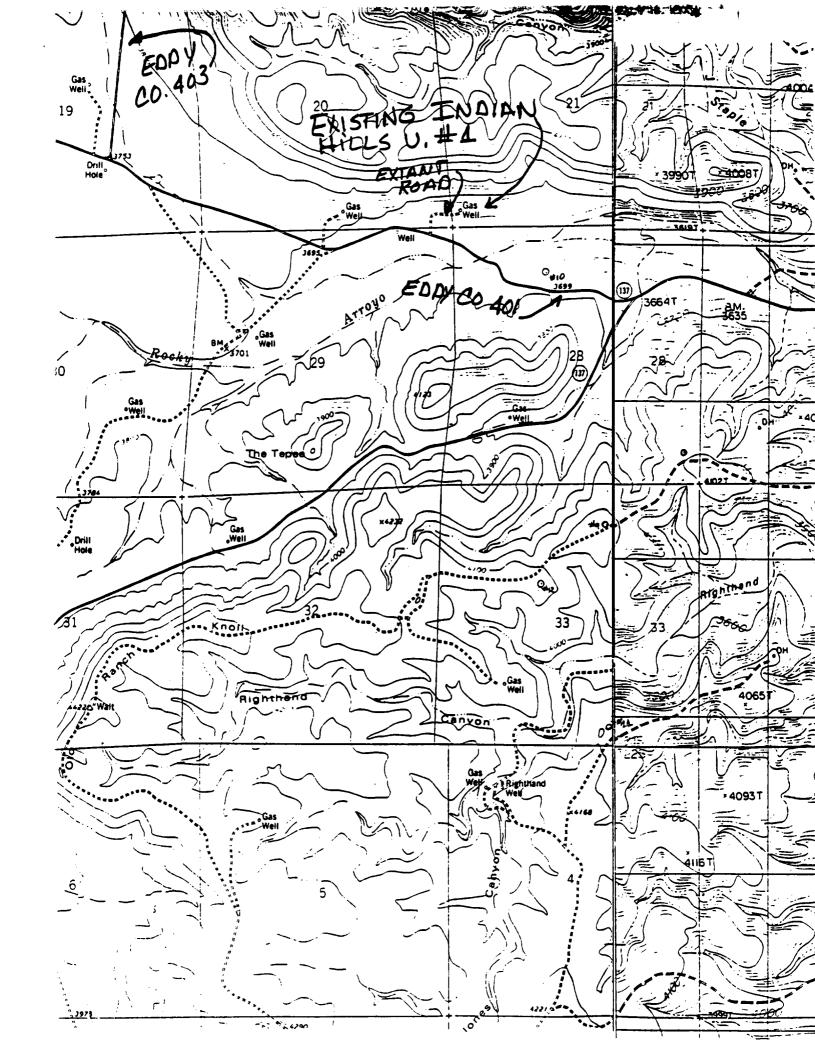
7. <u>Abnormal Pressures, Temperatures or Potential Hazards:</u>

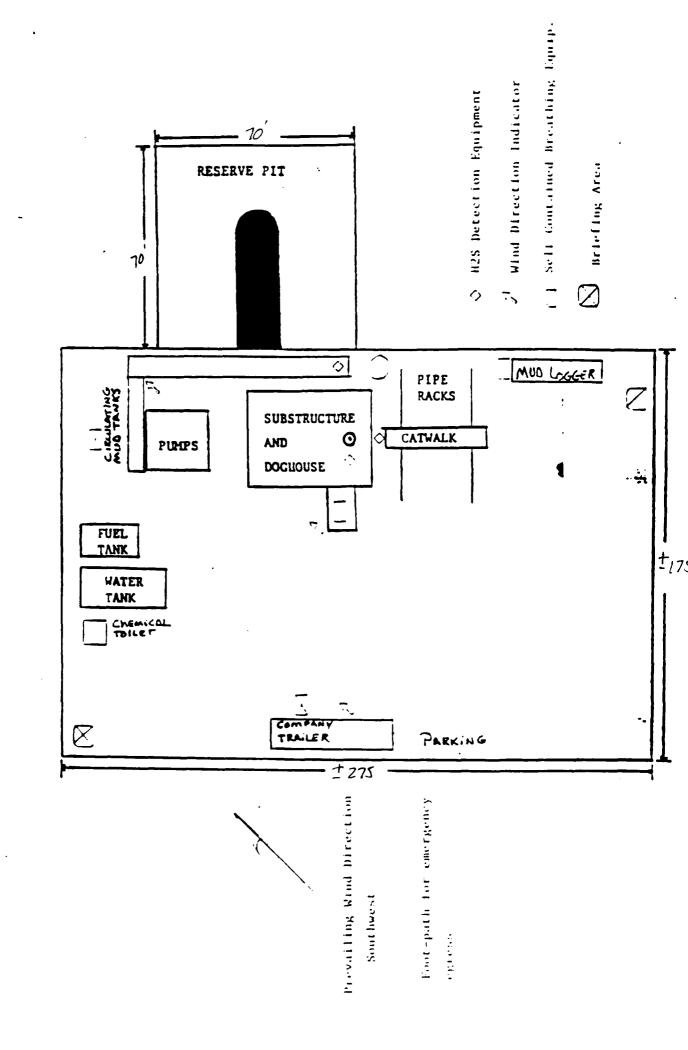
None anticipated. Possible H₂S in Cisco & Upper Penn. See H₂S Drilling Operations Plan.

8. Other Information:

Anticipated Starting Date: As soon as possible.

Duration of Well: drilling - 25 days, completion - 10 days.





MARATHON OIL COMPANY

H2S DRILLING OPERATIONS PLAN

I. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

II. H2S EQUIPMENT AND SYSTEMS

1. Safety Equipment

The following safety equipment will be on location.

- A. Wind direction indicators as seen in attached diagram.
- B. Automatic H2S detection alarm equipment (both audio and visual).
- C. Clearly visible warning signs as seen on the attached diagram. Signs will use the words "POISON GAS' and "CAUTION" with a strong color contrast.
- D. Protective breathing equipment will be located in the dog house and at briefing areas as seen in the attached diagram.

2. WELL CONTROL SYSTEMS

A. Blowout Prevention Equipme	a Equipmer	evention	Blowout	A
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Equipment	includes	but	is	not	lir	nite	d	to:

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

Auxillary equipment added as appropriate includes:

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

B. Communication

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

C. Mud Program

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

D. Drill Stem Test intervals are as follows:

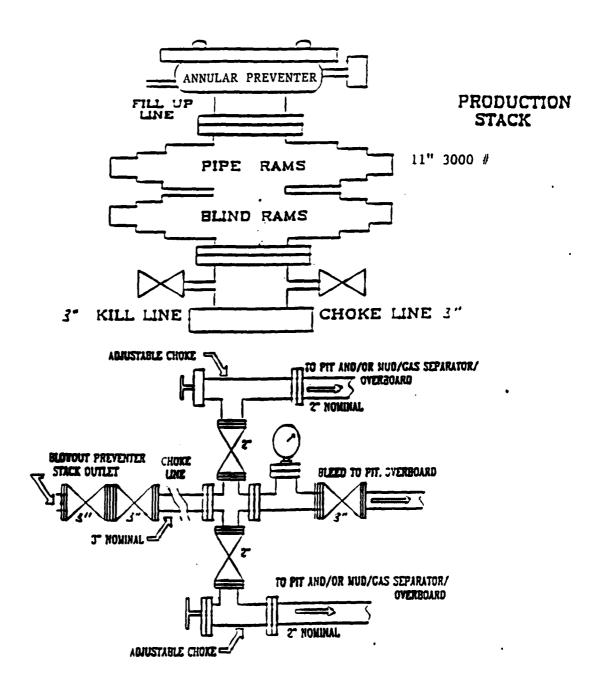
DST No. 1	ft: to	ft.
DST No. 2	ft. to	ft.
DST No. 3	ft. to	ft.

Drill Stem Testing Safety Rules are attached.

III. WELL SITE DIAGRAM

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

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



State of New Mexico Energy, Minerals & Natural Resources Department

5 T Form C-10 Revised February 10, 199

Instructions on bac OIL CONSERVATION DIVISION A THEN DEVESTIMEN TO

ALLEN S. WILSON

Dato: 12-29-94

PRODUCTION ENGINEER

PO Box 1980, Hobbs, NM 88241-1980

District I

District II

District III 1000 Rio Brazos Rei District IV). Box	x 2088		RELE	/ED		-	- -	sate District Om 5 Copi
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III. Oil an	d Gas	Transpor	ters										
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Approval Date:

Printed Name

Title

Date

Phone: 915/682-1626

47 If this is a change of operator fill in the OGRID number and name of the previous operator

Previous Operator Signature

SF

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(June 1990) UNI (June 1990) DEPARTMEN BUREAU OF	TED STATES NT OF THE INTERIOR OIL CONSERVED LAND MANAGEMENT RECE	VED FORM APPROVED Budget Buress No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.
MOV ,		0 ONM- 07260
Do not use this form for proposals to de	AND REPORTS ON WELLS 31 31 rill or to deepen or reentry to a different R PERMIT—" for such proposals	6. If Indian, Allouse or Tribe Name
SUBMIT	IN TRIPLICATE RECEN	7. If Unit or CA, Agreement Designation INDIAN HILLS UNIT
1. Type of Weil Oil Gas Weil Weil Other	NOVI	1092 8. Well Name and No.
2. Name of Operator Marathon Oil Company	O. C	INDIAN HILLS UNIT # 1 9. API Well No.
3. Address and Telephone No.	045.000.41	
P.O. Box 552 Midland, Tx. 79702 4. Location of Well (Footage, Sec., T., R., M., or Survey D.	915 682 16	10. Field and Pool, or Exploratory Area INDIAN BASIN (MORROW))
4. Location of Well (Footage, Sec., T., R., M., or Survey D UNIT LETTER M, 660' FSL & 660' FV	VL SECTION 21,T-21-S, R-24-E	11. County or Parish, State
		EDDA CO MENT MENTO
		EDDY CO. NEW MEXICO
	s) TO INDICATE NATURE OF NOTICE	E, REPORT, OR OTHER DATA
TYPE OF SUBMISSION		FACTION
L. Notice of Intent	Abandonment	Change of Plans
X Subsequent Report	Recompletion Plugging Back	New Construction Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
		Dispose Water (Next: Report results of multiple completion on Well
B/12/92 MIRU PU. SICP-725#, SITP-2400 COULD NOT RELEASE 7" LOK-SET PACKER. BLM CARLSBAD.) RIH W/ 7" CIBP AND SET RU PIPE JACKS & RIH W/ 7" CSG. SPEAR. CSG. @ 6100'AND PULLED SAME. RIH W/ 2" WOC 4 HRS. AND TAG PLUG @ 6002'.PULLED TAGGED PLUG @ 2952'. PULLED TUBING TO SPOTTED 16 SX. CLASS "C" + 2% CACL2 T NSTALLED PLATE AND DRY HOLE MARKER. AUGUST 22, 1992.	RELEASED BAKER ON-OFF TOOL ABOVE SAME @ 9115'. SPOTTED 10 SX CLASS PULLED SLIPS, RIH W/ FREE POINT AND 2-3/8" TUBING TO 6175'. SPOTTED 40 SX CED TUBING TO 3117'. SPOTTED 40 SX CED TUBING TO 3117'. SPOTTED 40 SX CED TUBING TO 3117'. SPOTTED 40 SX CED SURFACE. REMOVED WELLHEAD AND CED SURFACE. REMOVED WELLHEAD AND CED SURFACE.	PACKER @ 9123'. (OK'D BY JIM AMOS, "C" ON TOP OF CIBP. REMOVED BOP & FOUND CSG. FREE TO 6125'. CUT 7" EX. CLASS "C" + 2% CACL2 @ 6175'. LASS "C" + 2% CACL2. WOC OVERNIGHT. EX. CACL2. PULLED TUBING TO 62', CUT 9-5/8" CASING 3" BELOW G.L. AND
		Approved as to plugging of the well bore. Liability under bond is retained until surrace restoration is completed.
14. I hereby certify that the foliagoing is true and correct Signed — Live CECIL T. PE	ARCE Title DRILLING SUPERINTENDENT	Date 11/2/92
(This space for Federal or State office use)		
Approved by	Title	Dete: 1(18/92
Title 18 U.S.C. Section 1001, makes it a crime for any person	knowingly and willfully to make to any department or agency	of the United States any false, fictitious or freedulent statement
or representations as to any matter within its jurisdiction.		

RECEIVED

Form 3160-5 RES ED

OF PERSONNESSES AS SO ANY STA

UNITED STATES OIL CONSER. ON DIVISION DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED Budnet aureau no. 1004-0135 Expires: Marca 31, 1993

APR - 7 1992 Lease Designation and Serial No.

NM - 07260 SEFER OFFICE D IT INGIAN, ALLOGOS

92 Apriliations in its form for proposals to drill or to deepen or reentry to a different reservoir.

Use "APPLICATION FOR PERMIT—" for such proposals

ope or Weil Gas		Indian Hills Unit
Oil Gas Other		8. Well Name and No.
ARATHON OIL COMPANY 🗸		9 API Well No.
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O. Box 552, Midland,		
•	0' FWL, Sec. 21, T-21-S, R-24-E	Indian Basin - Mor
		Eddy Co., NM
CHECK APPROPRIAT	TE BOX(s) TO INDICATE NATURE OF NOT	TICE, REPORT, OR OTHER DATA
TYPE OF SUBMISSION	TYP	E OF ACTION
X Notice at Intent	X Apandonment	Change of Plans
_	Recompletion	New Construction
Subsequent Report	Plugging Back	Non-Routine Fracturing
	Casing Repair	Water Shut-Off
Final Abandonment Nonce	Altering Casing	Conversion to Assession
	Other	Dispose Weser
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Title 18 U.S.C. Section (00), makes it a crime for any person knowingly and welfally to make to any department or agency of the United States any raise, figurates or transfer

INDIAN HILLS UNIT NO. 1 660' FSL and 660' FWL Unit Letter "M" Section 21, T-21-S, R-24-E Eddy County, New Mexico

Date: March 3, 1992

%: 3.670' H

KB: 3,681'

D: 10,212'

PBTD: 9,300'

ourface Casing: 13-3/8", 48#/ft., set @ 304' (960 sx) TOC - Surface

Intermediate Casing: 9-5/8", 36#/ft., set @ 3,098' (1,263 sx) TOC by

temperature survey at 184'. Then pumped 50 sxs Incor Neat

to surface.

Production Casing: 7", 23#/ft, 26#/ft, 29#/ft, @ 10,159' (700 sx), TOC - 6400'

Production Tubing: 2-3/8", set @ 9,155', Baker Lok-Set @ 9,124' with the

following released downhole (+54'). Mechanical tubing release, 1 jt of 2-3/8" tubing, 4' \times 2-3/8" sub, firing

head, 14' of steel carrier and bull plug.

Perforations: Morrow 9200'-9214', 4 JSPF, 56 holes.

Squeezed Perforations: Upper Penn 7316-32', 7410-20', 7536-48', 7590-7610',

7690-7740'.

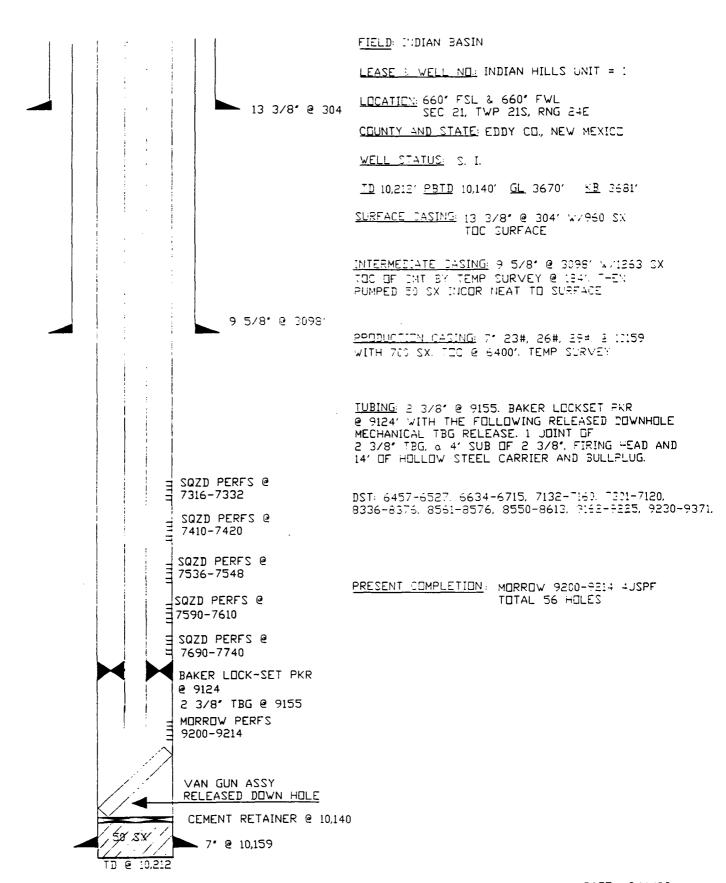
Procedure to Plug and Abandon

- 1. Set anchors. MIRU PU.
- 2. ND wellhead. NU BOP's.
- 3. Release Baker Lok-Set packer and POOH.
- 4. GIH with 7" CIBP for 23-29#/ft. pipe on 2-3/8" workstring and set the CIBP at 9,150'. Pull up and put a 50' cement plug on top of the CIBP which will be approximately 8 sxs of Class "C" cement.
- 5. Pull up to + 9,099' and fill the casing with 9 ppg mud to 6,000'. POOH with the tubing.
- 6. ND the BOP's. ND the tubing head. NU a hydrill on the 12" 3000# WP casing head spool.
- 7. RU spear into the 7" casing.
- 8. RU wireline company and pull tension on the 7" casing and cut the casing at 6,100'. RD wireline company.

4.

- 9. Circulate the annulus of the 7" with 9 ppg mud to ensure that the Bone Spring zone is not active.
- 10. POOH with the 7" casing, laying it down.
- 11. GIH with 2-3/8" tubing open-ended and place a 100' cement plug across the cut off 7" casing, (50' of the plug should be below the cut off point and 50' above). This will take approximatey 24 sxs of Class "C" cement.
- 12. Pull up the hole to + 6,049' and fill the open hole with 9 ppg mud to 3,098'.
- 13. Pull up the hole to 3,098' and place a 100' cement plug across the 9-5/8" casing shoe. (50' of the plug should be below the shoe and 50' above). This will take approximately 32 sxs of Class "C" cement.
- 14. Pull up the hole to 3,040 and fill the 9-5/8" casing with 9 ppg mud to 304'.
- 15. Pull up the hole to 304' and place a 100' cement plug across the surface casing shoe (50' of the plug should be below the shoe and 50' above). This will take approximately 33 sxs of Class "C" cement.
- 16. Pull up the hole to 250' and fill the 9-5/8" casing with 9 ppg mud to 50'.
- 17. Pull up the hole to 50' and place a 50' cement plug to surface. This will take approximately 16 sxs of Class "C" cement.
- 18. ND the hydrill and cut the casing off 3' below what will be final restored ground level. The wellbore will then be covered with at least a 1/4" thick plate and welded in place or a 4' pipe, 10 feet in length, 4' above ground and embedded in cement may be used. The well location and identity shall be permanently inscribed on either item. If the metal plate is used a small weep hole shall be left.
- 19. The cellar shall be filled with suitable material and the surface restored as directed by the BLM officer in charge at the location.

WELL DATA SHEET



DATE: 3/4/92



(June 1990); DEPARTMEN	TTED STATES NT OF THE INTERIOR	FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993
SUNDRY NOTICES	LAND MANAGEMENT AND REPORTS ON WELLS rill or to deepen or reentry to a different reservoir. PR PERMIT—" for such proposals RECEIVED	5. Lease Designation and Serial No. NM-07260 - F 6. If Indian, Allottee or Tribe Name
SUBMIT	r in triplicate MAR = 5 1992	7. If Unit or CA, Agreement Designation Indian Hills Unit
Name of Operator Marathon Oil Compar Address and Telephone No.	arily Abandoned O.C.D.	8. Well Name and No. Indian Hills Unit 9. API Well No. 30015100660000 10. Field and Pool, or Exploratory Area
	escription) 1d 660' FWL; Sec 21-T21S-R24E (s) TO INDICATE NATURE OF NOTICE, REPOR	Morrow (Indian Bas
TYPE OF SUBMISSION	TYPE OF ACTION	11, ON OTHER DATA
Notice of Intent Subsequent Report Final Abandonment Notice	Abandonment Recompletion Plugging Back Casing Repair Altering Casing Other Mechanical Integr: Test	Change of Plans New Construction Non-Routine Fracturing Water Shut-Off Conversion to Injection Dispose Water (Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
	Il pertinent details, and give pertinent dates, including estimated date of starting cal depths for all markers and zones pertinent to this work.)* procedure (over)	any proposed work. If well is directionally drilled
		RECEIVED FEB 10 9 23 AN * CARLS CARLS CAREA HELL CAREER
14. I hereby certify the foregoing is true and correct Tim Wi	nters Tide Gang Pusher	Date 2/4/92
(This space for Federal or State office (ste) Approved by Conditions of approval, if any:	Title PETROLEUM FILGULZER	Date 3/2/92

MECHANICAL INTEGRITY TEST PROCEDURE Indian Hills Unit No. 1 Eddy County, New Mexico

B12 12

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DATE: February 17, 1992

PURPOSE: Run mechanical integrity test.

3670' GL, 3681' KB **ELEVATION:**

9300'

SURFACE CASING: 13 3/8" set @ 304'

INTERMEDIATE CASING: 9 5/8" set @ 3098'
PRODUCTION CASING: 7" set @ 10159'

2 3/8" set @ 9200 TUBING:

PACKER: Guiberson KUL 30 set € 9124'

SAFETY PRECAUTION: Monitor H2S at the wellhead while running test.

- 1. Notify BLM representative, Duncan Whitlock, 48 hours prior to running MIT. (BLM telephone number (505) 887-6544)
- 2. RU Service Company.
- 3. Test line and valves to 500 psig.
- 4. Install pressure gauges with pen records on casing annulus.
- 5. Fill tubing-casing annulus with 2% KCl water and pressure test to 500 psig.
- 6. Monitor pressure for 15 minutes.
- 7. RD Service Company.
- 8. Send pressure chart to Midland Production office.

TLW/all

Submit 5 Copies REC	EIVED	E \		ew Mexico	.	4		Гота С-	104
Appropriate District Office DISTRICT I P.O. Box 1980, Hobbs, NM 88240		-	finerals and Nat		•			Revised See Inst	ructions
P.O. BOX 1980, HODGE, NM 88240 DISTRICT II JUN	07 '89	OIL C	ONSERVA	TION I	DIVISIO	N	Santa Fe	at Botto	m of Page
P.O. Drawer DD, Astesia, NM 88210	07 00		P.O. Bo nta Fe, New M	0 × 2000			File	Oil	
DISTRICT III 1000 Rio Brazos Rd., Azlec, NM 87410	. C. D.		·				Transporter Operator	Gas	1
I.	300 14 FT 604		OR ALLOWAE INSPORT OIL			***	Operator		u
Operator	-/	10 1115		- AND NA	TOTIAL GA	Well A	PI No.		
Marathon Oil Company	, _/					30-	-015-100	066	
P. O. Box 552; Midla	ınd, Tex	tas 79	702						
Reason(s) for Filing (Check proper box)		~ i-	T	Oth	et (Please expla	in)	#152(#Ye)		610
New Well Recompletion	Oil	Change in	Transporter of: Dry Gas			حيا	rem Cos	BA CA	
Change in Operator	Casinghe	ad Gas 🔲	Condensate					2 3 1989	
If change of operator give name and address of previous operator					·	 	3014 -	- 7 1303	
II. DESCRIPTION OF WELL	AND LE							RVATION D	IV.
Lease Name Indian Hills Unit		Well No.	Pool Name, Include Indian Ba		rrow)		f Lease Tederal or Fee	iii Le	ase No.
Location		<u></u>						. N/	<u> </u>
Unit Letter M	_ :66	50	Feet From The	South Lin	e and	660 Fe	t From The _	West	Line
Section 21 Townsh	nip 21S		Range 24E	. N	мрм.		Eddv		County
						- 			County
III. DESIGNATION OF TRAINAMENT OF Authorized Transporter of Oil	VSPORTE	or Conden			e address to wh	ich approved	copy of this fo	rm is to be se	nt)
Marathon Oil Company		an Basi	n Gas Plant	P. 0.	Box 1324;	Artesi	a, New N	Mexico	88210
Name of Authorized Transporter of Casi	-		or Dry Gas X	1	e address io wh				
Marathon Oil Company If well produces oil or liquids,	Unit	Sec.	Twp. Rge.		y connected?	When	?	_	00210
give location of tanks.		23	21S 23E	Yes			1/4/89	9	
If this production is commingled with that IV. COMPLETION DATA	: moni any ou	ner teams or]	pool, give comming	ing order mun	DET:				·
Designate Type of Completion	- 00	Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v	Diff Res'v
Date Spudded		pi. Ready to	Prod.	Total Depth	<u> L</u> _	i	P.B.T.D.		1
	ļ			Ton Oil/Con	B				
Elevations (DF, RKB, RT, GR, etc.)	Name of P	Producing Fo	ermation	Top Oil/Gas	ray		Tubing Dept	h	
Perforations				1			Depth Casing	g Shoe	
		TIRING	CASING AND	CEMENTI	NG RECOR	<u></u>			
HOLE SIZE			BING SIZE	CENTERVIE	DEPTH SET		S	ACKS CEME	NT
		<u></u>							
	+								
U. MOOT DAMA AND DECLUS	CT COD		DIE						
V. TEST DATA AND REQUE OIL WELL (Test must be after			ADLE of load oil and must	be equal to or	exceed top allo	wable for this	depth or be f	or full 24 hour	3 .)
Date First New Oil Run To Tank	Date of Te		<u> </u>		ethod (Flow, pu				
Length of Test	Tubing Pre			Casing Press	ıre		Choke Size		
Actual Prod. During Test	Oil - Bbls.			Water - Bbis			Gas- MCF		
GAS WELL				L					
Actual Prod. Test - MCF/D	Length of	Test		Bbls. Coader	mie/MMCF		Gravity of C	ondensate	
Testing Method (pitot, back pr.)	Tubiac Ba	essure (Shut-	-10)	Casing Press	m (Chistria)		Choke Size		
1 miling Menico (puos, ouck pr.)	Tabail II.	sauto (ontes-	-41)	Casing From	are (Strot-III)		CHOKE SIZE		
VI. OPERATOR CERTIFIC	ATE OF	COMP	LIANCE		N CON	ICEDIA	TION	211/1010	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
I hereby certify that the rules and regularision have been complied with and					OIL CON	IOENVA	ATION I	אופועור	N
is true and complete to the best of my				Date	Approve	dJl	IN 2 1	1989	
flethell for 5KT	,	148		11		bole			
Signature				By_	1/h	ap W	AM	am	Z
J. R. Jenkins/Hobbs Printed Name	rroduct	ion Sui	<u>perintend</u> en Tide	Title	in in	MILSOR	METRICI	a a	
6/6/89 Date		(915)	682-1626		RILQA				

INSTRUCTIONS: This form is to be filed in compliance with Rule 1104

- 1) Request for allowable for newly drilled or deepened well must be accompanied by tabulation of deviation tests taken in accordance with Rule 111.
- 2) All sections of this form must be filled out for allowable on new and recompleted wells.
- 3) Fill out only Sections I, II, III, and VI for changes of operator, well name or number, transporter, or other such changes.
 4) Separate Form C-104 must be filed for each pool in multiply completed wells.

(November 1983)	DEPAR	UNI [*] RTMEN	TED STA T OF TH F LAND MAN	TES IE IN	SUBMITERIO	RECEN	CLICATE • (See other in structions on the property side)	Rudget	pproved. Bureau No. 1004-0137 August 31, 1985
	OMPLETION	OR RI	ECOMPLET						ALLOTTES OR TRIBS NAME
18. TYPE OF WE	ILL: of	T. RT.L	WELL X	DRY 🗌	Other R) 2	M '89	7. UNIT AGRE	EMENT NAME
L TYPE OF CO		88.P- []	ring [] DDE	P. —	CARL		200		Hills Unit
2. NAME OF OPER	OVER L	X		SVR.	OthARE:		<u> </u>	S. FARM OR	
		0			+15 1.4	CEVED	C1/13	Indian 9. WELL NO.	Hills Unit
3. ADDRESS OF UP	athon Oil	Company						1	
.P.	O. Box 552	Midl.	and. Texas	s 797	02	m 195	ξ Q	1	POOL, OR WILDCAT
4. LOCATION OF W	KILL (Report local	ion clearly a	and in accordance	e with an	y State requi	letten A.	M	Indian	Basin - Morrow
At surfaceUD3	Lt M, 660'	12 P & O	OO. FWL			o. c. 0).	11. SEC., T., R	., M., OR BLOCK AND BURVEY
At top prod. in	iterval reported t	elow				RTESIA, O	PICE		
At total depth						(MIRON A		Sec. 21	, T-21-S, R-24-E
			14. PI	ERMIT NO.		DATE ISSUE	:D	12. COUNTY O	R 13. STATE
								Eddy	NM
15. DATE SPUDDED	16. DATE T.D.	REACHED 1	7. DATE COMPL.	(Ready t	19 19	. ELEVATION	a (DF, RKB,	RT, GR, ETC.)*	19. SLEY. CASINGHEAD
2-26-63 20. TOTAL DEPTH, MD	6-8-63	UQ, BACK T.D.,	Recomplete		7-87 G	R 3670	KB 36	81'	3670'
	21. 72		. 40 2 140	HOM N			DRILLED BY		S CABLE TOOLS
10,212' 24. PRODUCING INTE	RVAL(8), OF THE	9300'	N-TOP, BOTTOM,	NAME ()	AD AND TYD)			<i>75</i> 9) –	25. WAS DIRECTIONAL
9200 - 92	14' Mo	rrow				.10.	N 2 3 19	89	No
26. TYPE ELECTRIC	AND OTHER LOGS	RUN					· · · · · · · · · · · · · · · · · · ·		27. WAS WELL CORED
	ecompletio	n					NSERVATIO	N DIV.	No
23. Cabing bize	WEIGHT, LB	/94 DE	CASING RECO		ort all string: LE SIZE	set in well	SANIA FE	BECORD	
	_		304'	·		060 0	in 8 s		None
13-3/8 9-5/8	-\-\-\-\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		3,098'	Un	 _	1263 sx		Lages	None
7''	23, 26,		0.159'		-3/4"	·	in 2 s	tages	None
29.		LINER RE				30.		TUBING RECO	RD
#IZB	TOP (MD)	BOTTOM (MD) SACKS CE	EMENT*	SCREEN (M			DEPTH SET (MD	PACKER SET (MD)
	 		 				78"	9200'	7124
31. PERFORATION RE	CORD (Interval, s	ise and num	ber)		32.	ACID. SI	OT. FRACT	URE, CEMENT	SQUEEZR, ETC.
9200' - 1	4' (4 JSPF	41"	dia. , 56 h	oles)		TERVAL (MD			OF MATERIAL USED
	Tuhing	convey	ed gun		7410-2	Δ'	Cmt	SGZ W/22'	sx Cl "H"
	1001119							forated 4	
	14011.5				9200-1	•	<u> </u>	TOTALEG 3	
	1001115				9200-1	•	Per		
33 •			,	PROD		•	Per		
		UCTION MET	HOD (Flowing, go		CCTION	41		WELL B	TATUS (Producing or
33.* DATE FIRST PRODUCT	TION PROD	uction METS	HOD (Flowing, go		CCTION	41			TATUS (Producing or
PATE PERT PRODUCT	HOURS TESTED	lowing CHOKE	SIZE PROD'N	e lift, pu	UCTION mping—size	and type of	pump) —MCF.	WELL SAUS-	TARUS (Producing or
DATE FIRST PRODUCT DATE OF TRET 7-1-88	FON PRODUCTION F F F F F F F F F F F F F F F F F F F	lowing CHOKE 1.25	SIZE PROD'S	C. FOR PERIOD	OIL—BBL.	and type of		WELL S chus- WATER—BBL. 0	Producing or many producing GAS-OIL BATIO
PATE PERT PRODUCT TOTAL OF THET 7-1-88 PLOW. TUBING PROSE. 2071	HOURS TESTED 24 CASING PRESSU	CHOKE 1.25	SIZE PROD'N TEST LATED OIL	C. FOR PERIOD	OIL—BBL. OGAS—	and type of	Pump) -MCF. 10.3 WATER-	WELL S chus-	PATUS (Producing or in) Producing GAS-OIL BATIO DIL GRAVITY-API (CORS.)
DATE PIRET PRODUCT DATE OF TRET 7-1-88 PLOW. TUBING PROSE. 2071 34. DISPOSITION OF G Sold	HOURS TESTED 24 CASING PRESSU	CHOKE 1.25	SIZE PROD'N TEST LATED OIL	f. FOR PERIOD	OIL—BBL. OGAS—	GAS.	Pump) -MCF. 10.3 WATER-	WELL SANGT- WATER—BBL. O -NBL. O TEST WITNESS Ralph Si	PATUS (Producing or in) Producing GAS-OIL BATIO OIL GRAVITY-API (CORS.) ED SY cinner
PATE PRODUCT PATE OF TRET 7-1-88 PLOW. TUBING PROS. 2071 34. DISPOSITION OF G Sold 35. LIST OF ATTACE	HOURS TESTED 24 CASING PRESSU TAR (Sold, used for	CHOKE 1.2 RE CALCUL 24-HOU r fuel, vented	SIZE PROD'S TEST ATED OIL—E A, etc.)	. FOR PERIOD	OIL—BBL. OGAS— GAS— 31	GAS-GAS-GAS-GAS-GAS-GAS-GAS-GAS-GAS-GAS-	Pump) -NCF. 1C.3 WATER-	WELL SCHOOL WATER—BEL. O HBL. O TEST WITNESS Ralph SI	PATUS (Producing or in) Producing UAS-OIL BATIO DIL GRAVITY-API (CORE.) ED BY CINNET
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TRUE VERT. DEPTH TOP GEOLOGIC MARKERS MEAS. DEPTH 7,305 8,400 8,684 9,022 6,613 232 695 2,395 2,985 Upper Penn Lower Strawn Bone Spring San Andres Glorieta Wolfcamp Morrow .. Grayburg NAME Atoka 38. 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals; and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries): DESCRIPTION, CONTENTS, ETC. Limestone & Shale Limestone & Sand Limestone & Sand Dolomite & Sand Dolomite & Sand Dolomite & Sand Limestone Dolomite Dolomite BOTTOM 1,710 2,985 3,300 7,300 7,900 8,680 9,000 695 TOP 2,395 6,613 7,305 8,400 8,684 9,022 2,985 695 Lower Strawn Bone Spring Upper Penn San Andres FORMATION Wolfcamp Glorieta Grayburg Morrow Atoka

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PROBATION OFFI	: 6	Ĺ								

NEW MEXICO OIL CONSERVATIC COMMISSION WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM CON 28

TRAMPORTER	 	1		TRUCTIONS	EAD CO.	I DI ETIM	THIS EARL	AN THE DE	VEDSE SINE	
PROBATION OFFICE	ļ <i>,</i> —		255 IN2	I KUC I IUNS	FUR LUX	APLETING	INIS FURM	ON THE RE	VERJE JIVE	JUN 16 '89
OPERATOR										
					SECTIO	A AC				O. C. D.
Operator					Lease			 	Weli N	经时间 ,从在1000年
Marathon C)il Co	ompany			Indi	ian Hill	ls Unit		1	
Unit Letter	Section	00	Township		Ran	ge	County			
M	21		21-9	<u> </u>	2	24-E	Ede	iy		
Actual Footage L	OCALIOS			-						
660			South	line and	660		feet from th	• West	line	
Ground Level Ele	▼. 1	Producing Fo	mation		Pool		111		Dedicated Ac	reage:
_3670 '		Morrow			India	ın Basir	Mon	ow _	640	Acres
ubo has the ri another. (65- 2. If the answer t wise? YES	ght to a -3-29 (:o quest NO	drill into and (e) NMSA 193 tion one is ") If	to produce 5 Comp.) no," have t answer is	/rom any pool he interests o 'yes,'' Type	d and to a of all the of Consol	owners be	the production the production consolidate interests be.	ed by commun	imself or for bim	self and
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330 660 9	90 /3	10 1660 196	0 2310 26	40 2000	1500	1000	500	o Certifica	te No.	, _

(November 1983) (Formerly 9-331)	UNITED STAT DEPARTMENT OF THE BUREAU OF LAND MAN	ANTERIOR verse side	Militin E.	Expires Augu 5. LEASE DESIGNATION NM - 07260	ON AND SERIA O
SUND (Do not use this for	RY NOTICES AND RE	PORTS ON WELLESCE	IVED ervoir.	6. IF INDIAN, ALLOT	
1.		Ann I II	21 MM '89	7. UNIT AGREEMENT	BKAN
2. NAME OF OPERATOR	. OTHER	CAECEIVE		Indian Hil	ls Unit
Marathon Oil Co	ompany	AREA no	:40E ≅≅S	Indian Hil	ls Unit
4. LOCATION OF WELL (Rep	Midland, Texas 797 ort location clearly and in accordan			10. FIELD AND POOL	OR WILDCAT
See also space 17 below. At surface Unit M, 660' FS		O. C.	of the	Indian Bas	BLE. AND
		•			-18-S, R-24-E
14. PERMIT NO.	15 ELEVATIONS (Sho	ow whether DF, RT, GR. etc.)		12. COUNTY OR PARIS	H 13. STATE
	GL 3670'	KB 3681'	<u> </u>	Eddy	NM
6 .	Check Appropriate Box To	Indicate Nature of Notice, R	Report, or Ot	ther Data	
NOT	ICE OF INTENTION TO:	• • •	BUPSBUS	ENT REPORT OF:	
TEST WATER SHUT-OFF	PULL OR ALTER CASING	WATER SHUT-O	F7	REPAIRING	WELL
FRACTURE TREAT	MULTIPLE COMPLETE	FRACTURE TREA		ALTERING	<u> </u>
SHOOT OR ACIDIZE REPAIR WELL	ABANDON* CHANGE PLANS	SHOOTING OR A		ABANDONMI	X
(Other)		(NOTE: R	eport results o	of multiple completion tion Report and Log for	on Well
 DESCRIBE PROPOSED OR CO- proposed work. If we nent to this work.) 	OFFICE OFFRATIONS (Clearly State ell is directionally drilled, give sub	all pertinent details, and give per	tinent dates, i	ncluding estimated da	te of starting any
Began recomplet	ion operations on Ju	ne 17, 1987.		:	•
Set cement reta squeezed Upper 2 days. Drille 7316'-32' to 10 to 1000 psi. D orations 7536'- squeezed perfor Tested previous Ran in hole wit on 2 3/8" tubin	t Well Service. Releatiner on wireline at Penn perforations, 74 do out retainer and co 000 psi. Drilled out rilled out retainer at 48' to 1000 psi. Drilled out ations 7590'-7610' to 1y squeezed perforation tubing conveyed perforations. Hydrotested tubing-9214' with 4 JSPF.	7385'. Stung into re 410'-20', with 225 sx ement to 7389'. Test cement to 7440'. Te and cement to 7561'. illed out retainer an to 1000 psi. Drilled ions 7690'-7740' to 1 rforating gun, 7" Baking to 5000 psi. Set 41" diameter - 56 hol	tainer wi Cl "H" of ed previous sted sque Tested p d cement out reta 000 psi. er Lok-se packer at es.	th 2-7/8" tul- cement to 3000 cusly squeezed eezed perforatoreviously square to 7656'. Test ciner and ceme Cleaned out et packer, and	psing. Cement O psi. WOC - d perforations tions 7410'-20 ueezed perf- sted previously ent to 7760'. hole to 9300' d on-off tool forated Morrow
				'ED R	nt ID-2 4-21-89 pxA U/Pame
		JU	N 23 198	9	PYH W/FM
		OIL CO	NSERVATION SANTA FE	DIV.	
3. I bereby certify that the	foregoing is true and correct		UMNIA FE		
SIGNED	J. R. Jenkins _T	Hobbs Production	Sup't.	DATE 04-0)3-89
(This space for Federal	or State office use)		ACCEP	TED FOR RECO	ORD
APPROVED BY		ITLE		DATE	
COMDITIONS OF APPRO	OVAL, IS ANI:		Į.	APR 1 71989	
	*C 1	netructions on Reverse Side		SUS	

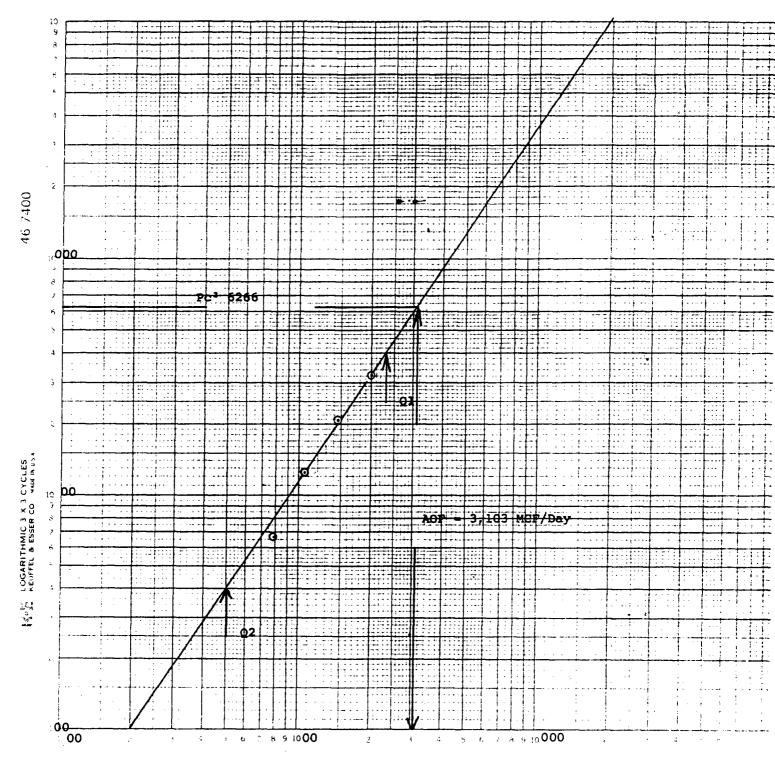
Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

CARLSBAD, NEW MEXICO

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Marathon Oil Co. Indian Hills Unit Well #1 Eddy County 7-1-87



Q = MCF/Day

Q1 = 2300 =3.361728 Q2 = 500.8=2.699728 N= .662000

This	rtify than the foregoing		······································	ngineer	DATE _	April 15, 198
Marat Morro	ow formation.	A copy of the	workover	te the Indian Hi procedure and wately May 4, 1987	vell diagram a	No. 1 in the re attached.
Other) DESCRIBE IN proposed	Recomplete in	CHANGE PLANS the Morrow OPERATIONS (Clearly State	X e all pertiuent baurface location	(Other) Report	results of multiple of kecompletion Report a	ompletion on Well nd Log form.
TEST WATE	1	PULL OR ALTER CASING MULTIPLE COMPLETE ABANDON®	G	WATER SHUT-OFF FRACTUBE TREATMEN SHOOTING OR ACIDIZI	iT	EPAIRING WELL LIBING CASING
J.	Check A		Indicate No	ature of Notice, Repoi	rt, or Other Data SUBSEQUENT REPORT O	7 :
PERMIT NO.		15. ELEVATIONS (Sh	KB	3: 3681'	12. COUNTY Eddy	T-21-S, R-24-1 OR PARISE 13. STATE N. Mexic
bullace		FSL and 660° F	WL		11. SEC., T., SURVI	Basin - Upper I
LOCATION O See also sp At surface	or WELL (Report location	O. Box 552, Min clearly and in accords		exas 0.76702.		ND POOL OR WILDCAT
ADDRESS OF		SANTA FE	,शस्त्राचा	APR 17 1987	I i	Hills Unit
NAME OF O	· _ · · · · · · · · · · · · · · · · · ·	APR 27 1987		RECEIVED BY	7. UNIT AGE Indian	Hills Unit
OIL WELL NAME OF O	CAB X PINER	ICATION -FOR-PER MIT		ON WELLS ack to a different reservoir roposais.)		N. ALLOTTRE OR TRIBE SAV
OIL	ot use this form for pro Use "APPL	TICES A PUD AL	TO O O		6 15 (MULA	ALLOTTEE OR TRIBE

*See Instructions on Reverse Side

DATE __

TITLE _

WORKOVER PROCEDURE

RECEIVED BY

APR 17 1987

O. C. D. ARTESIA, OFFICE

INDIAN HILLS UNIT WELL NO. I

- 1. MIRU pulling unit. N/U BOP's.
- 2. N/U BOP's.
- 3. R/U kill truck and establish pump-in rate (perfs 7410'-20').
- 4. Release packer and POOH w/ 2 3/8" tubing.
- 5. R/U wireline company and set cement retainer @ ±7390'.
- 6. P.U 2 7/8" workstring and sting into retainer.
- 7. Squeeze Upper Penn perforations per service company recommendation.
- 8. Pull out of retainer, reverse circulate and POOH w/ 2 7/8" tubing.
- 9. Wait 24 hours.
- 10. P.U bit, drill collars and 2 7/8" tubing.
- 11. Drill out retainer and cement to 7520'.
- 12. Pressure test casing to 1000 psi.
- 13. Drill out retainer @ 7520' and cement to 7568'.
- 14. Pressure test casing to 1000 psi.
- 15. Drill out retainer @ 7568' and cement to 7665'.
- 16. Pressure test casing to 1000 psi.
- 17. Drill out retainer @ 7665' and cement to 7750'.
- 19. Pressure test casing to 1000 psi.
- 19. Circulate hole clean to ± 9300'.
- 20. POOH w/ drill collars, bit and 2 7/8" workstring laving down.
- 21. RIH w/ Yann Gun System on 2 3/8" tubing.
- 22. Hydro-test tubing in the hole.
- 23. Run GR correlation log. Set packer. N/D BOP's, install wellhead.
- 24. Drop bar and fire perforating guns. Perf Morrow f/ 9200-14' w/ 4 JSPF.
- 25. Test well to test unit.

	WELL DATA SHEET
	FIELD Indian Basin
	LEASE AND WELL NO. Indian Hills Unit Well To. 1
	LOCATION 660' FSL, 660' FWL, Sec. 21, T213, R24E
13-3/8" @ 304	COUNTY AND STATE Eddy County, New Mexico
	STATUS SI
52-3/8" @ 7369'	TD 10,212' PBTD 10,140' GL 3670' 63 3681'
	SURFACE CASING 13-3/8" @ 304' w/960 sx.
	TOC Surface
	INTERMEDIATE CASING 9-5/8" 3 3098' w/1263 sx.
	TATAMENTAL ORDER OF STATE OF S
9-5/8" @ 3098	
	PRODUCTION CASING 7" 23#, 26#, 29# 3 10.159 1 10/700
₹ Sqzd perfs	TOC 6400' (T Survey).
7316- 32'	toc 5400 (f aurvev).
Perf 7410-20 5 Ret @ 7520'	Logs
Sqzd perfs 7536-48	1
Cmt ret @ 7568' * Sqzd perfs * 7590-7610	DST 6457-6527, 6634-6715, 7132-60, 7301-22, 8336-76
Cmt ret @ 7665'	8561-76, 8550-8613. 9162-9225. 9230-9371. 9725-9455,
\$ Sqzd perfs 7690-7740	10,160-10,212
	TUBING 2-3/8" w/Guiberson EVL 30 pkr. 3 7369'
	w/12,000#.
2 _{Cmt ret @ 10,140}	,
50 sx. 7" @ 10,159'	PRESENT COMPLETION: (Formation and Interval)
TD 10,212'	

HISTORY 6/63 Drilled to 10,212' TD. Cmt retainer @ 10,140'. Sozd w/50 sx. Perf 7690 7740' w/4 SPF (200 holes). MA/1000 gal. Swbd wtr. Sozd perfs 7690-7740 w/90 sx. Per 7590-7610 w/80 shots. MA/1000 gal. F 65 BWPH & 2000 MCFGPD. Sozd perfs 7690-7740 w/9 sx. Perf 7536-48 w/48 shots. MA/1000 gal. F 84 BWPH & 3250 MCFPD. Sozd perfs 7536-48 w/84 sx. Perf 7410-20. MA/1000 gal. F 18,000 MCFGPD w/no wtr. cmt retainer ? 7395' sx on top. Perf 7316-32 w/64 shots. MA/1000 gal. F 14,000 MCFGPD. MA/2000 gal. CA 21,500 MCF. 1974 Watered out. SI. 9/78 Sozd perfs 7316-32. Do retainer @ 7395'. Te perfs 7410-20. 40 hr. SITP = 0#. S.T.

PREPARED BY: M. D. Vogel

DATE 5-14-85

WRS COMPLETION REPORT SEC 21 TWP 21S RGE 30-015-10066-0001 24E P1# 30-T-0004 05/08/89 PAGE * 660FSL 660FWL SEC NMEX EDDY SW SW STATE COUNTY FOOTAGE MARATHON OIL D X DG WELL CLASS INIT INDIAN HILLS UNIT WELL NO LEASE NAME 3681KB 3670GR INDIAN BASIN FIELD/POOL AREA API 30-015-10066-0001 LEASE TYPE NO PERMIT OR WELL I.D. NO. 06/17/1987 07/01/1988 WO-UNIT GAS-WO SPUD DATE COMP DATE 9300 MORROW X-PERT WELL SRVC PROJ DEPTH PROJ FORM CONTRACTOR PB 9300 OTD 10212 FM/TD DEVONIAN DTD 10212 DRILLERS T.D. LOG T.D. PLUG BACK TD OLD T.D. FORM T.D. LOCATION DESCRIPTION 15 MI SW LOCO HILLS, NM TUBING DATA TBG 2 3/8 AT 9200 INITIAL POTENTIAL **IPF** 3103 MCFD 24HRS PERF MORROW W/ 56/IT 9200- 9214 PERF 9200- 9214 SITP 2490 @ 9200FT BHT 166F 798MCFD TP 2350 BHFP 2366 1068MCFD TP 2220 BHFP 2240 1468MCFD TP 2015 BHFP 2042 2000MCFD TP 1700 BHFP 1743 3103MCFD BH 2503 **FPCAOF** GOR DRY GAS GTY .598 P/L CON TO AIR 1ST THRU 4TH PT TEST IN 60 MINS, CKS-NO DETAILS NATURAL PRODUCTION TEST DATA 7316- 7332 CISCO PERF 7316-7332 w/ 225S 7316- 7332 PERF SQZD

Petroleum Information

CONTINUED IC# 300157008789

PI-WRS-GET

21 TWP 21S RGE 24E SEC COMPLETIONS PI# 30-T-0004 05/08/89 30-015-10066-0001 PAGE 2

MARATHON OIL

INDIAN HILLS UNIT

D X DG

PRODUCTION TEST DATA

SQZD & DOC TO 9300

DRILLING PROGRESS DETAILS

MARATHON OIL BOX 552 MIDLAND, TX 79702 915-682-1626

915-682-1626

OWWO: OLD INFO: FORMERLY LOWE RALPH #1
INDIAN HILLS UNIT. ELEV 3680 GR. SPUD
2/25/63. 13 3/8 @ 304 W/950 SX, 9 5/8 @ 3098
W/1163, 7 @ 10160 W/700 SX. LOG TOPS:
MISSISSIPPIAN LM 9720, WOODFORD 10118. DRLR
TOP: DEVONIAN 10162. OTD 10212. PB 7386.
COMP 6/14/63. IPF 21500 MCFGPD. PROD ZONE:
CISCO 7316-7332.
LOC/1989/
10212 TD, PB 9300
COMP 7/1/88, IPCAOF 3103 MCFGPD, GOR DRY,
GTY (GAS) .598, SIWHP 2490,
SIBHP 2503
PROD ZONE - MORROW 9200-9214
FIRST REPORT & COMPLETION

05/04 05/04

FIRST REPORT & COMPLETION

WRS COMPLETION REPORT PLETIONS SEC 21 TWP 21S RGE 24E 30-T-0006 09/25/98 30-015-10066-0102 PAGE COMPLETIONS EDDY * 660FSL 660FWL SEC SW SW **NMEX** STATE COUNTY FOOTAGE D R DG MARATHON OIL INDIAN HILLS UNIT WELL NO. 3670GR INDIAN BASIN FIELD/POOL/AREA OPER ELEV API 30-015-10066-0102 LEASE NO. PERMIT OR WELL I.D. NO. 04/22/1998 07/20/1998 ROTARY DIR GAS-WO SPUD DATE COMP. DATE COOL HOLE TYPE 8200 PNSLVN U MCVAY DRLG PROL DEPTH PROL FORM CONTRACTOR PB 7833 OTD 10212 FM/TD PNNSYLVN DTD 7926 LOCATION DESCRIPTION 15 MI SW LOCO HILLS, NM ACTUAL BOTTOM HOLE LOCATION 7926MD FTG 416 FSL 176 FWL SEC NO DIRECTIONAL SURVEY AVAILABLE WHIPSTOCK DEPTH WSD 6125 REMEDIAL SIDETRACK HOLE DATA ORIGINAL HOLE TD 10212 CASING/LINER DATA CSG 7 @ 7865 W/ 900 SACKS TUBING DATA TBG 2 7/8 AT 7615 INITIAL POTENTIAL IPP 36BOPD 845 MCFD4665BW CISCO PERF W/ 864/I 24HRS CISCO PERF W/ 864/IT 7300- 7430 GROSS PERF 7300- 7312 7326- 7362 7368- 7430

COPYRIGHT 1998

CONTINUED IC# 300157000798

PI/D-WRS-GET

Petroleum information/

Dwights LLC

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COMPLETIONS
                                                            SEC
                                                                          21 TWP
                                                                                                21S RGE 24E
                                                            30-015-10066-0102
           30-T-0006 09/25/98
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  MARATHON OIL
                                        INDIAN HILLS UNIT
                                                     INITIAL POTENTIAL
 ACID 7300- 7430 10800GALS
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                                           /PENNSYLVANIAN U
 GAS GTY (NR)
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 LOGS
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                                                                                                5800- 7824 CCL
 LOGS
                                        CNL
                    DRILLING PROGRESS DETAILS
MARATHON OIL
BOX 552
MIDLAND, TX 79702
915-682-1626
OWST: OLD INFO: FORMERLY MARATHON OIL 1 INDIAN
HILLS UNIT. ELEV 3670 GR, 3681 KB. SPUD 6/17/87.
13 3/8 @ 304 W/950 SX, 9 5/8 @ 3098 W/1163 SX,
7 @ 10160 W/700 SX. OTD 10212. PB 9300. COMP
7/1/88. IPCAOF 3103 MCFGPD. PROD ZONE: MORROW
9200-9214. (PLUGGED PRODUCER 8/22/92.)
01/12
LOC/1998/
04/20
10212 TD, MIRT
04/28
10212 TD, DO @ 5958
05/10 DO TO 6125 & KO IN STH
05/11
10212 TD, DRLG BY @ 6215
05/18 DRLD TO 7926 IN STH
05/26
10212 TD, STTD 7926, LDDP
05/18 DRLD TO 7926 IN STH
05/26 RAN 7 CSG
RIG REL 05/20/98
                              MARATHON OIL
              RAN / CSG
RIG REL 05/20/98
10212 TD, STTD 7926, STPB 7833
COMP 7/20/98, IPP 36 BOPD, 845 MCFGPD,
4665 BWPD, GTY 48.2, GAS
GTY (NR), GOR 23472
PROD ZONE - PENNSYLVANIAN U 7300-7430
                                                            (GROSS)
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CONTINUED

COMPLETIONS SEC 21 TWP 21S RGE 24E 30-T-0006 09/25/98 30-015-10066-0102 PAGE 3

D R DG

MARATHON OIL

INDIAN HILLS UNIT

DRILLING PROGRESS DETAILS

NO CORES OR DSTS RPTD

New Mexico Oil Conservation Division---Enginnering Bureau Administrative Application Process Documentation

Date Application	Received:	-	8-21-2001
Date of Prelimina (Note: Must be v	ary Review: vithin 10-days of received date)	-	8-22-2001
Results:	Application Complete		Application Incomplete
Date Incomplete	Letter Sent:		8-22-2001
Deadline to Subn	nit Requested Information:	-	8-29-2001
Phone Call Date: (Note: Only appl	ies is requested data is not subr	nitted wi	thin the 7-day deadline)
Phone Log Comp	leted?Y	es _	No
Date Application	Processed:	-	10-3-01
the necessary info	Returned: last resort & only after repeated formation to process the application.	tion)	•
2 2	Jucomplete letter	- 5/4.	

Southern U.S. Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 15, 2001

NSL

New Mexico Oil Conservation Division

Attn: Mr. Michael E. Stogner 1220 South Saint Francis Drive Santa Fe. New Mexico 87505

Re: Indian Hills Unit No. 1 (API No. 30-015-10066) Location within Section 21, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico

Mr. Stogner:

Per our phone conversation of August 10, 2001, attached you will find a copy of the letter I have sent to offset interest owners and a copy of the gyro survey that was done on the above referenced well. The gyro survey was done eleven months after the blind kick and recompletion of this well. As we discussed, I am sending a copy of the survey to both the New Mexico Oil Conservation Division office in Artesia and the Bureau of Land Management office in Roswell.

We also discussed the participation in the Indian Hills Unit Agreement that day. I checked with our land department and they explained to me that Sections 20, 21, 28 and 33 all have identical ownership and are covered by the Unit agreement, Marathon with 99.54544% and Nearburg Exploration with 0.45456%. Section 29, however, is covered by Gas Com agreement CA-SW-272 with interest owners as follows:

Marathon Oil Company	93.32385%	Claremont Corp.	1.40937%
Texas Independent Exploration	1.28125%	Devon Energy	1.15313%
Nolan Brunson, Jr.	0.56250%	Tandem Energy	1.28125%
Nearburg Exploration	0.42615%	Hugh Hanagan	0.28125%
Hanagan Properties	0.28125%		

I hope this answers all your questions and concerns. If not, please call me at (915) 687-8321. Thank you for your time and for your consideration in this matter.

Sincerely, Linny Larke

Ginny Larke

Engineer Technician

Attachments

cc: Tom Kellahin



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 14, 2001

All Interest Owners of the Indian Hills Unit and Indian Hills Unit Gas Com Leases Certified Mail (Return Receipt Requested)

Re: Indian Hills Unit Well No. 1 Unorthodox Location

Dear Sir or Madam:

The Indian Hills Unit Well No. 1, API No. 30-015-10066, was drilled and completed in June, 1963. The location was originally surveyed November 21, 1962, by Joe Hewitt, Jr., at 660' FSL and 660' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico, please see attached copy of Form C-128. The well was plugged and the location abandoned in August, 1992. A decision was made to re-enter this well so the location was re-surveyed by Mr. Ronald J. Eidson, of John West Engineering, on November 4, 1997, see attached copy of Form C-102. According to information obtained from Mr. Eidson, the original survey of this area was done in 1882. The Federal Government ordered a re-survey of this area which was conducted from November 16, 1966 to January 12, 1967. Mr. Eidson said it took the surveyors two months to re-survey Section 21 and, in the process, the corners of this section were moved. Due to this re-survey, the legal description for this surface location is now 416' FSL and 176' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico.

When the well was re-entered in early 1998, Marathon did a blind kick to drill around some junk that was left in the hole when it was plugged in 1992. No directional survey was done at the time of the re-entry, however, in March, 1999, a survey was done by Scientific Drilling International. This survey shows that, after the blind kick was done, the bottom hole location of this well is now 427' FSL and 30' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico.

No application for an unorthodox location was ever filed after the re-survey or prior to the re-entry of this well. This letter is to inform you, as an offset interest owner, that Marathon has filed an application for this unorthodox location with the Oil Conservation Division in Santa Fe, New Mexico. If you have an objection to Marathon's application, you have 20 days from the date of this letter to file your objection with the Oil Conservation Division office in Santa Fe, New Mexico. If you have no objection, please sign one copy in the space provided and return to me in the enclosed envelope. If you have questions or need further information, please call me at 915-687-8321.

Sincerely,	Signature:	
Ginry Larke	Printed Name:	
Ginny Larke	Title:	
Engineer Technician		
	Company Name:	
Attachments		
	Date:	

Claremont Corporation P. O. Box 549 Claremore, OK 74018-0549

Texas Independent Exploration, Inc. 1600 Smith, Suite 3800 Houston, TX 77002-3800

Devon Energy 20 N. Broadway, Suite 1500 Oklahoma City, OK 73102

Nolan Brunson, Jr. P. O. Box 2390 Hobbs, NM 88241-2390

Nearburg Exploration 3300 N. A Street, Suite 120 Building 2 Midland, TX 79705

Tandem Energy Corporation P. O. Box 351 Midland, TX 79702-0351

Hugh Hanagan P. O. Box 329 Roswell, NM 88210-0329

Hanagan Properties Attn: Robert G. Hanagan P. O. Box 1887 Santa Fe, NM 87504-1887

DISTRIBUTION) - 3 - 325 , - 4 4 - 3 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5		NEW MEVES	O OIL CONSERVA	an Jeannie	SION FOR	u 16.517. 1685/1757
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	4-	:	***************************************		Pos	C. B. Burr	ay S
· ·						C. B. Murr	
·	4					C. B. Burr	
·					Com	C. B. Hurr ition Agent Pany RALPH LOWE	
·					Com	C. S. Murr	
·				VED	Com	C. B. Hurr ition Agent Pany RALPH LOWE	
T				11/ED	Com Date	C. B. Hurr ition Agent Pany RALPH LOWE	
T 21				19 1963	Com Date	C. S. Murr ition Agent pany NALPH LOWE February 1	6, 1963
21				819 1963	Com Date	C. S. Hurr ition Agent pany HALPH LOWE February 1	6, 1963 well location
21				FEB 1 9 1963	Com Date	C. B. Hurr ition Agent Pany RALPH LOWE February 1 reby certify that the very on the plat in SEC	6, 1963 well location
21				FEB 1 9 1963	Date of the short	C. B. Hurr ition Agent Pany RALPH LOWE February 1 reby certify that the very on the plat in SEC ted from field notes of	8, 1963 well location TION B was factual
21				FEB 19 1963	Date Date Show plot survey	c. s. Hurr ition Agent pany RALPH LOWE reby certify that the v wn on the plat in SEC ted from field notes of reys made by me or un	8, 1963 well location TION B was factual
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DISTRICT | 1 °P.O. Box 1980, Hobbs, NM 88241-1980

State of New Mexico

Energy, Minerals and Natural Resources Departn.

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 86211-0719

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

DISTRICT IV P.O. BOX 2088, SANTA FE. N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

□ AMENDED REPORT

	WELL LO	CATION AN	D ACREA	GE DEDICATION	ON PLAT		
API Number		Pool Code			Pool Name		
Property Code			Property Nam HILLS (operty Name Well Number HILLS UNIT 1			
OGRID No.		MARATHON	Operator Nam N OIL CC			Elevation 3670	
		Su	rface Loc	ation			
UL or lot No. Section	Township Range	Lot ldn Fee	t from the	North/South line	Feet from the	East/West line	County
M 21	21 S 24 E		416	SOUTH	176	WEST	EDDY
UL or lot No. Section	Township Range	·	t from the	North/South line	face Feet from the	East/West line	County
Dedicated Acres Joint	or Infill Consolidation	Code Order N	0.				_
NO ALLOWABLE	WILL BE ASSIGNED OR A NON-STAI					EEN CONSOLIDA	ATED
176'					I hereby contained hereing best of my known best of my known best of my known best of my known best of my known best of my known best of the survey on this plat was supervisors a correct to the survey Signature of Professional Confederation best of the survey of the s	or CERTIFICA' by that the well local was plotted from fiel made by me or nd that the same is he best of my bette EMBER 4, 199 Education Surveyor 1748	FION tion shown d notes of under my strue and ef. 7 DMCC



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

June 21, 2001

Oil Conservation Division Attn: Mr. Michael E. Stogner 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Indian Hills Unit Well No. 1 Unorthodox Location

Mr. Stogner:

This letter is being sent per our phone conversation of June 13, 2001. As we discussed, the Indian Hills Unit Well No. 1, API No. 30-015-10066, was drilled and completed in June, 1963. The location was originally surveyed November 21, 1962, by Joe Hewitt, Jr., at 660' FSL and 660' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico, please see attached copy of Form C-128. The well was plugged and the location abandoned in August, 1992. A decision was made to re-enter this well so the location was re-surveyed by Mr. Ronald J. Eidson, of John West Engineering, on November 4, 1997, see attached copy of Form C-102. According to information obtained from Mr. Eidson, the original survey of this area was done in 1882. The Federal Government ordered a re-survey of this area which was conducted from November 16, 1966 to January 12, 1967. Mr. Eidson said it took the surveyors two months to re-survey Section 21 and, in the process, the corners of this section were moved. Due to this re-survey, the legal description for this location is now 416' FSL and 176' FWL, Section 21, T-21-S, R-24-E, Eddy County, New Mexico.

No application for an unorthodox location was ever filed after the re-survey or prior to the recompletion of this well. Please determine if such an application is required considering the circumstances. Thank you for your help in this matter and for taking the time to answer my questions last week when we spoke on the phone.

Sincerely,

Ginny Larke

Engineer Technician

Ginny Larke

Attachments



MIDLAND, TEXAS

MARATHON OIL COMPANY

INDIAN HILLS

: EDDY COUNTY, N'M

SHL BHL

Well Name

Location

ACTUAL BHL

: 18 MARCH 1999 Bate Surveyed

: 32K0399064 Job No. : GARY DESPAIN Surveyor

Sent to Central Files

This survey is correct to the best of my knowledge and is supported by actual field data.

. COMPANY REPRESENTATIVE



: MARATHON OIL COMPANY Uni+ ıstomer Page 1 of 8 11 Name : INDIAN HILLS STATEM #1 Date 18 MARCH 1999 Filename : INDIAN#1

: EDDY COUNTY, NM cation

ΙL

ΗL CTUAL BHL :

TUAL BH	•					No Tobo	
		Datum Above	Field Datum	0.00 ft		NO INCE	rpolation
ardire or	MELLOTTE	Datum ADOVE	rieid Dacum	0.00 10			
N	ID I	IC DIR	TVD	+ N/- S	+E/-W	vs	D'LEG
	t de			ft	ft	ft	·/100
0.				0.00	0.00	0.00	0.0
100.				0.35	-0.09	0.12	0.4
125.				0.52	-0.14	0.12	0.0
150.				0.70	-0.19	0.25	0.0
175.				0.70	-0.24	0.25	0.2
1/5.	0)	1/5.00	0.91	-0.24	0.31	0.2
200.	0 0.6	52 N 5.67°W	200.00	1.15	-0.28	0.37	0.5
225				1.42	-0.30	0.41	0.2
250				1.70	-0.31	0.43	0.5
275.				2.00	-0.29	0.44	0.1
300				2.29	-0.28	0.45	0.2
				2.03	0.20	0.45	0.2
325.	0.0	69 N 0.78°E	324.99	2.58	-0.27	0.46	0.2
350.				2.89	-0.27	0.48	0.1
. 375				3.20	-0.30	0.53	0.6
400				3.54	-0.37	0.63	0.6
425				3.91	-0.43	0.72	0.2

450	.0 0.	86 N 7.87°W	449.98	4.28	-0.48	0.80	0.0
475	.0 0.		474.97	4.64	-0.53	0.87	0.3
500	.0 0.	84 N 8.67°W	499.97	4.99	-0.59	0.95	0.2
525	.0 0.	76 N11.55°W	524.97	5.33	-0.65	1.04	0.4
550	.0 0.	82 N12.32°W	549.97	5.67	-0.72	1.14	0.2
					· ·		
575				6.03	-0.80	1.25	0.2
600	.0 0.			6.36	-0.91	1.38	0.5
625				6.67	-1.03	1.52	0.2
650	.0 0.			6.98	-1.16	1.67	0.1
675	.0 0.	72 N24. 53°W	674.95	7.27	-1.28	1.82	0.1
		_					
700				7.53	-1.43	1.98	0.4
725		74 N31.27°W		7.79	-1.59	2.16	0.3
750				8.06	-1.75	2.35	0.2
775				8.28	-1.92		0.7
800	.0 0.	50 N47.58°W	799.95	8.45	-2.08	2.70	0.3
•							
825				8.60	-2.25	2.88	0.2
850				8.75	-2.42	3.06	0.2
875				8.89	-2.58		0.4
900				9.03	-2.73		0.3
925	.0 0.	51 N47.40°W	924.94	9.18	-2.89	3.57	0.0
		45 1700 0 -					
950				9.28	-3.07		1.0
975			974.94	9.34	-3.26	3.94	0.4
1000			999.94	9.41	-3.45	4.14	0.2
1025				9.48	-3.65	4.34	0.0
1050	.0 0.	53 N78. 30°V	1049.94	9.53	-3.86	4.56	0.3

:omer : MARATHON OIL COMPANY Unit
Name : INDIAN HILLS #1

ition : EDDY COUNTY, NM

Page 2 of 8 Date 18 MARCH 1999 Filename : INDIAN#1

JAL BHL: No Interpolation

ght Of	WELLSITE D	atum Above	Field Datum	0.00 f	L	NO THE	erpolation
				0.00 1	_		
	D INC		TVD	+ N/- S	+E/-W	٧s	D'LEG
	t deg		ft	ft	ft	ft	°/100
1075.	-		1074.94	9.58	-4.09	4.79	0.1
1100.			1099.94	9.60	-4.32	5.01	0.6
1125.			1124.93	9.62	-4.53	5.23	0.7
1150.			1149.93	9.68	-4.76	5.46	0.2
1175.	0 0.55	N74.44°W	1174.93	9.73	-4.98	5.69	0.2
1200.			1199.93	9.76	-5.22	5.93	0.6
1225.			1224.93	9.78	-5.46	6.16	0.5
1250.			1249.93	9.82	-5.69	6.40	0.2
1275.			1274.93	9.88	-5.92	6.63	0.4
1300.	0 0.55	N89.55°W	1299.93	9.92	-6.15	6.86	0.7
1325.	0 0.59	N83.77°W	1324.93	9.93	-6.39	7.11	0.0
1350.	0 0.60		1349.92	9.93	-6.65	7.11	0.3
1375.	0 0.61			9.92	-6.92	7.63	0.5 0.4
1400.	0 0.67	N85.59°W	1399.92	9.93	-7.19	7.83	0.4
1425.	0 0.68	N82.62°W		9.96	-7.49	8.20	0.3
		_				0.20	, 0.1
1450.				10.01	-7.78	8.50	0.2
1475.				10.08	-8.07	8.79	0.2
1500.				10.17	-8.35	9.08	0.2
1525.				10.26	-8.63	9.36	0.3
1550.	0 0.58	N83.84°W	1549.91	10.32	-8.88	9.62	0.6
1575.	0 0.56	N72.29°W	1574 01				
1600.				10.37	-9.12	9.86	0.5
1625.				10.45	-9.35	10.10	0.1
1650.				10.52	-9.58	10.33	0.3
1675.				10.57	-9.79	10.55	0.3
10,5.	0.31	107.41 W	16/4.91	10.61	-10.00	10.76	0.5
1700.				10.65	-10.23	10.99	0.6
1725.				10.69	-10.46	11.22	0.6
1750.		,,		10.68	-10.68		
1775.				10.67	-10.90	11.66	0.3
1800.	0.51	S78.84°W	1799.90	10.65	-11.11	11.87	0.5
1825.		N82.91°W	1824.90	10.65	-11.34	12.09	0.7
1850.		S87.35°W	1849.90	10.66	-11.56	12.32	0.4
1875.	0.48	N84.74°W	1874.90	10.66	-11.78	12.54	0.3
1900.		7 S81.72°W	1899.90	10.65	-11.99	12.74	0.4
1925.	0.33	N85.69°W	1924.90	10.65	-12.16	12.91	0.7
1950.	0 0.31	N85.43°W	1949.90	10.66	_12 20	12 05	0.1
1975.				10.66	-12.30	13.05	0.1
2000.				10.65	-12.42 -12.54	13.18	0.2
2025.				10.63	-12.54 -12.66	13.30 13.41	0.2
2050.				10.61	-12.00		0.2
		=		±0.01	-12.//	13.52	0.1

Page 3 of 8 tomer : MARATHON OIL COMPANY Unit 1 Name : INDIAN HILLS COMPANDED #1 Date 18 MARCH 1999 Filename : INDIAN#1

ation : EDDY COUNTY, NM

No Interpolation 'UAL BHL :

LAU.	3HL	•					MO THEE	t borgeron
ight (of W	ELLSITE Dat	tum Above F	ield Datum	0.00 ft	•		
	MD	INC	DIR	TVD	+ N/- S	+E/-W	VS	D'LEG
	ft	deg	deq	ft	ft	ft	ft	100
2075		0.21	S79.40°Ŵ	2074.89	10.59	-12.87	13.62	0.1
2100		0.11	N82.63°W	2099.89	10.59	-12.94	13.68	0.4
212		0.20	S49.95°W	2124.89	10.56	-12.99	13.74	0.6
2150		0.14		2149.89	10.55	-13.06	13.80	0.7
217		0.12	S83.87°W	2174.89	10.56	-13.11	13.85	0.3
220	0.0	0.18	S40.88°W	2199.89	10.52	-13.16	13.90	0.5
222	5.0	0.07	N81.30°W	2224.89	10.50	-13.20	13.94	0.6
2 25 (0.0	0.09	S57.00°W	2249.89	10.49	-13.23	13.97	0.2
227	5.0	0.10	S64.01°W	2276.89	10.47	-13.27	14.01	0.1
230	0.0	0.15	S54.47°W	2299.89	10.44	-13.32	14.05	0.2
232		0.11	S54.04°W	2324.89	10.41	-13.36	14.09	0.2
235		0.05	S79.45°W	2349.89	10.39	-13.39	14.12	0.3
237		0.08	S81.06°W	2374.89	10.38	-13.42	14.15	0.1
	0.0		S88.22°W	2399.89	10.38	-13.46	14.19	0.1
242	5.0	0.13	S82.32°W	2424.89	10.38	-13.51	14.24	0.1
245	0.0	0.11	S77.42°W	2449.89	10.37	-13.56	14.29	0.1
	5.0		S57.77°W	2474.89	10.36	-13.59	14.32	0.3
	0.0		S84.26°W	2499.89	10.35	-13.61	14.34	0.2
	5.0		S85.41°W	2524.89	10.35	-13.65	14.37	0.1
	0.0		N73.68°W	2549.89	10.35	-13.69	14.41	0.2
257	5.0	0.08	N60.98°W	2574.89	10.37	-13.72		0.1
260	0.0	0.05	S78.89°W	2599.89	10.37	-13.74	14.47	0.2
262	25.0	0.10	N48.58°W	2624.89	10.39	-13.77	14.50	0.3
265	0.0	0.15	N26.81°W	2649.89	10.43	-13.80		0.3
267	5.0	0.12	N45.24°W	2674.89	10.48	-13.83	14.57	0.2
	0.0		N31.44°W	2699.89	10.52	-13.87		0.2
	25.0		N52.00°W	2724.89	10.57	-13.91	14.65	0.2
275	50.0	0.22	N15.39°W	2749.89	10.63	-13.94		0.6
277	75.0		N 2.14°W	2774.89	10.72		14.71	0.2
280	0.0	0.23	N10.25°E	27 99 .89	10.81	-13.95	14.71	0.2
	25.0		N12.27°E	2824.89	10.91	-13.93		0.1
	50.0			2849.89	10.99	-13.90		0.1
	75.0			2874.89	11.07	-13.89		0.2
290	0.00			2899.89	11.15	-13.88		0.2
292	25.0	0.17	N12.26°E	2924.89	11.23	-13.87	14.66	0.2
	50.0			2949.89	11.31	-13.85		0.1
	75.0			2974.89	11.38	-13.85		0.2
	00.0			2999.89	11.43	-13.86		0.5
	25.0			3024.89	11.49			0.6
30!	50.0	0.19	N13.54°W	3049.89	11.57	-13.92	14.73	0.1

:omer : MARATHON OIL COMPANY Uni+ Page 4 of 8 . Name : INDIAN HILLS ##1 Date 18 MARCH 1999 Filename : INDIAN#1

ition : EDDY COUNTY, NM

JAL BHL:

No Interpolation int Of WELLSITE Datum Above Field Datum 0 00 f+

ght Of	WELLSITE D	Datum Above	Field Datum	0.00 f	t		
MI			TVD	+N/-S	+E/-W	vs	D'LEG
ft	-		ft	ft	ft	ft	°/100
3075.0			3074.89	11.66	-13.93	14.76	0.1
3100.0			3099.89	11.74	-13.94	14.77	0.2
3125.0			3124.89	11.81	-13.95	14.79	0.1
3150.0			3149.89	11.89	-13.98	14.82	0.3
3175.0	0.21	N30.38°W	3174.89	11.96	-14.02	14.87	0.0
3200.0	0.24	N26.78°W	3199.89	12.05	-14.07	14.92	0.1
3225.0			3224.89	12.17	-14.11	14.97	0.5
3250.0			3249.89	12.31	-14.12	14.99	0.3
3275.0			3274.89	12.44	-14.12	15.00	0.2
3300.0	0.29	N14.96°E	3299.89	12.57	-14.10	14.99	0.3
3325.0			3324.89	12.68	-14.08	14.98	0.2
3350.0			3349.89	12.79	-14.06	14.96	0.1
3375.0			3374.89	12.89	-14.03	14.95	0.0
3400.0			3399.89	13.02	-14.02	14.94	0.4
3425.0	0.28	N 0.71°E	3424.89	13.15	-14.02	14.95	0.2
3450.0			3449.89	13.27	-14.01	14.95	0.1
3475.0			3474.89	13.40	-14.00	14.95	0.3
3500.0			3499.89	13.55	-14.00	14.96	0.1
3525.0			3524.89	13.70	-14.00	14.97	0.0
3550.0	0.38	N 0.21°W	3549.89	13.86	-14.00	14.98	0.1
3575.0			3574.89	14.02	-13.99	14.99	0.2
3600.0			3599.89	14.18	-14.00	15.01	0.4
3625.0			3624.89	14.33	-14.02	15.04	0.4
3650.0			3649.88	14.46	-14.06	15.09	0.4
3675.0	0.41	N23.00°W	3674.88	14.61	-14.12	15.16	0.3
3700.0			3699.88	14.78	-14.20	15.25	0.2
3725.0			3724.88	14.96	-14.31	15.38	0.5
3750.0			3749.88	15.16	-14.45	15.53	0.1
3775.0			3774.88	15.36	-14.58	15.68	0.1
3800.0	0.64	N29.02°W	3799.88	15.58	-14.72	15.83	0.4
3825.0			3824.88	15.80	-14.86	15.99	0.5
3850.0			3849.88	15.99	-15.02	16.16	0.2
3875.0			3874.87	16.17	-15.18	16.34	0.1
3900.0				16.36	-15.34	16.51	0.4
3925.0	0.61	. N46.61°W	3924.87	16.55		16.70	0.4
3950.0				16.73	-15.73	16.92	0.3
3975.0			,,	16.89	-15.98	17.18	0.5
4000.0				17.05	-16.27	17.48	0.4
4025.0				17.20	-16.61	17.84	0.7
4050.0	1.03	N66.51°W	4049.86	17.36	-17.00	18.24	0.6

tomer : MARATHON OIL COMPANY Unit Page 5 of 8
1 Name : INDIAN HILLS ##1 Date 18 MARCH 1999
:ation : EDDY COUNTY, NM Filename : INDIAN#1

TUAL BHL:

No Interpolation

LAUI	BHL	:					NO INTE	rpolation
ight	Of	WELLSITE D	atum Above 1	Field Datum	0.00 ft	•		
	MD	INC	DIR	TVD	+ N/- S	+E/-W	vs	D'LEG
	ft	deg		ft	ft	ft	ft	100
40	75.0	1.11		4074.85	17.53	-17.44	18.69	0.4
	00.0			4099.85	17.70	-17.94	19.20	0.9
	25.0		7 N70.95°W	4124.84	17.90	-18.52	19.79	0.6
	50.0			4149.83	18.11	-19.19	20.48	1.2
	75.0		5 N71.11°W	4174.82	18.37	-19.98	21.28	1.2
	00.0			4199.80	18.69	-20.87	22.20	0.8
	25.0			4224.78	19.06	-21.87	23.21	1.4
42	50.0			4249.75	19.49	-22.95	24.33	0.6
42	75.0			4274.72	19.97	-24.07	25.48	0.8
43	00.0	2.9	4 N66.52°W	4299.69	20.49	-25.22	26.66	0.5
	25.0			4324.65	21.01	-26.40	27.88	0.2
	50.0		1 N65.08°W	4349.62	21.56	-27.61	29.13	0.5
	75.0			4374.58	22.13	-28.84	30.40	0.0
	00.0			4399.54	22.69	-30.09	31.68	0.4
44	25.0	3.1	5 N65.65°W	4424.51	23.25	-31.35	32.98	0.2
	50.0			4449.47	23.81	-32.59	34.26	0.2
	75.			4474.43	24.38	-33.83	35.54	0.1
	00.0			4499.40	24.95	-35.07	36.82	0.1
	25.			4524.36	25.53	-36.32	38.11	0.2
45	550.	3.1	6 N65.38°W	4549.32	26.11	-37.57	39.40	0.1
	75.			4574.28	26.68	-38.82	40.69	0.1
	500.		3 N64.75°W	4599.24	27.27	-40.06	41.97	0.1
	25.			4624.21	27.86	-41.28	43.23	0.4
_	550.		_	4649.17	28.47	-42.48	44.47	0.2
46	575.	0 3.0	4 N61.25°W	4674.13	29.10	-43.66	45.69	0.3
	700.			4699.10	29.74	-44.81	46.89	0.2
	725.	0 2.9		4724.07	30.37	-45.94	48.06	0.2
	750.		9 N60.58°W	4749.04	30.99		49.21	0.2
	775.		_	4774.00	31.61	-48.16	50.36	0.1
48	800.	0 2.8	2 N60.22°W	4798.97	32.23	-49.24	51.49	0.4
	B25.		_	4823.94	32.84	-50.31	52.60	0.1
	B50.				33.43	-51.37	53.70	0.2
	875.	*			34.03	-52.44	54.82	0.1
	900.		_		34.62	-53.51	55.92	0.2
4	925.	0 2.7	'5 N61.71°W	4923.82	35.19	-54.57	57.02	0.1
	950.		_		35.74	-55.63	58.12	0.3
	975.		_		36.28	-56.69	59.22	0.3
	000.		_		36.80	-57.77	60.33	0.2
	025.		_		37.30	-58.84		0.1
5	050.	0 2.7	72 N65.75°W	5048.68	37.80	-59.92	62.55	0.1

tomer : MARATHON OIL COMPANY Unit

1 Name : INDIAN HILLS #1 Date 18 MARCH 1999
1 ation : EDDY COUNTY, NM Filename : INDIAN#1

,

NO Interpolation

UAL			mdeasm 31a	ni da na			No Inte	erpolation
ignt	OI	MELLESITE D	atum Above	Field Datum	0.00 f	t		
	MD			TVD	+N/-S	+E/-W	VS	D'LEG
	ft			ft	ft	ft	ft	100
507	75.0	2.72	N66.83°W	5073.65	38.27	-61.01	63.67	0.2
510	0.0	2.72	N68.50°W	5098.62	38.73	-62.11	64.80	0.3
512	25.0	2.66	N69.52°W	5123.60	39.15	-63.20	65.92	0.3
515	50.0	2.62	N70.91°W		39.54	-64.29	67.03	0.3
517	75.0	2.59	N72.60°W	5173.54	39.89	-65.37	68.13	0.3
	0.0			5198.52	40.21	-66.43	69.22	0.5
	25.0			5223.50	40.47	-67.46	70.27	0.6
	50.0			5248.48	40.70	-68.49	71.31	0.0
	75.0				40.88	-69.51	72.34	0.8
530	0.00	2.30	N85. 30°W	5298.43	41.00	-70.51	73.35	0.6
	25.0				41.04	-71.53	74.37	0.7
	50.0				41.03	-72.56	75.39	0.6
	75.0				40.97	-73.59	76.42	0.2
	0.0				40.88	-74.62	77.43	0.5
542	25.0	2.34	S81.71°W	5423.33	40.74	- 75.63	78.44	0.3
	50.0				40.56	-76.65	79.43	0.6
	75.0				40.32	-77.66	80.43	0.4
	00.0				40.05	-78.68	81.43	0.3
	25.0				39.73	-79.70	82.42	0.8
225	50.0	2.48	S70.25°W	5548.22	39.36	-80.73	83.41	0.1
	75.0			5573.19	38.98	-81.75	84.41	0.3
	00.0			5598.17	38.59	-82.78	85.41	0.1
	25.0			5623.14	38.17	-83.81	86.40	0.3
	50.0				37.72	-84.84	87.39	0.4
567	75.0	2.62	S64. 65°W	5673.09	37.23	-85.86	88.38	0.2
	0.0			5698.06	36.74	-86.88	89.36	0.3
	25.0			5723.04	36.23	-87.90	90.33	0.3
	50.0			5748.01	35.70		91.30	0.4
	75.0			5772.99	35.13	-89.89	92.24	0.5
580	0.00	2.64	S55.57°W	5797.96	34.50	-90.85	93.15	0.6
	25.0			5822.94	33.85	-91.79	94.04	0.2
	50.0			5847.91	33.18	-92.70	94.90	0.7
	75.0			5872.88	32.46	-93.57	95.71	0.4
	0.00			5897.86	31.70	-94.36	96.45	1.2
592	25.0	2.44	S39.43°W	5922.84	30.89	-95.07	97.10	0.7
	50.0			5947.81	30.05	-95.72	97.68	0.6
	75.0			5972.79	29.18	-96.31	98.21	0.7
	0.0			5997.77	28.28	-96.85	98.67	0.4
	25.0			6022.75	27.38	-97.36	99.11	0.2
605	50.0	2.39	529.44°W	6047.73	26.48	-97.86	99.55	0.1

stomer : MARATHON OIL COMPANY Unit
11 Name : INDIAN HILLS #1 Page 7 of 8 Date 18 MARCH 1999 Filename: INDIAN#1

: EDDY COUNTY, NM cation

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No Interpolation TUAL BHL :

TUAL BHL						No Inte	rpolation
ight Of W	ELLSITE Dat	tum Above F	Field Datum	0.00 f	t		
MD	INC	DIR	TVD	+N/-S	+E/-W	VS	D'LEG
ft	deg	deg	ft	ft	ft	ft	°/100
6075.0	2.42	S29.03°₩	6072.71	25.56	-98.38	100.00	0.1
6100.0	2.38	S29.84°W	6097.68	24.65	-98.89	100.44	0.2
6125.0	2.30	S35.65°W	6122.66	23.79	-99.44	100.93	1.0
6150.0	2.28	S46.71°W	6147.64	23.04	-100.10	101.52	1.8
6175.0	2.24	S57.41°W	6172.62	22.44	-100.87	102.25	1.7
6200.0	2.23	S68.43°W	6197.60	22.00	-101.73	103.08	1.7
6225.0	2.32	S75.51°W	6222.58	21.69	-102.68	104.00	1.2
6250.0	2.26	S82.99°W	6247.56	21.51	-103.65	104.96	1.2
6275.0	2.21	S86.83°W	6272.54	21.42	-104.63	105.92	0.6
6300.0	2.21	S86.56°W	6297.53	21.36	-105.59	106.88	0.0
6325.0	2.20	S87.65°W	6322.51	21.31	-106.55	107.83	0.2
6350.0	2.19	S87.50°W	6347.49	21.27	-107.50	108.78	0.0
.6375.0	2.06	N87.44°W	6372.47	21.27	-108.43	109.71	0.9
6400.0	2.02	N84.99°W	6397.46	21.33	-109.32	110.60	0.4
6425.0	1.91	N80.27°W	6422.44	21.44	-110.17	111.45	0.8
6450.0	1.86	N72.82°W	6447.43	21.63	-110.97	112.26	1.0
6475.0	1.85	N71.29°W	6472.42	21.88	-111.74	113.05	0.2
6500.0	1.87	N71.47°W	6497.40	22.14	-112.51	113.83	0.1
6525.0	1.86	N71.23°W	6522.39	22.40	-113.28	114.62	0.0
6550.0	1.89	N72.20°W	6547.38	22.66	-114.05	115.42	0.2
6575.0	1.92	N72.66°W	6572.36	22.91	-114.85	116.22	0.1
6600.0	1.96	N73.88°W	6597.35	23.15	-115.66	117.05	0.2
6625.0	1.92	N77.21°W	6622.33	23.36	-116.47	117.88	0.5
6650.0	1.93	N81.60°W	6647.32	23.52	-117.30	118.72	0.6
6675.0	1.89	N82.88°W	6672.31	23.63	-118.13	119.55	0.2
6700.0	1.88	N86.50°W	6697.29	23.70	-118.94	120.37	0.5
6725.0	1.98	S87.82°W	6722.28	23.71	-119.78	121.21	0.9
6750.0	2.09	S86.25°W	6747.26	23.67			0.5
6775.0	2.28	S79.66°W	6772.24	23.55	-121.61	123.02	1.3
6800.0	2.29	S76.37°W	6797.22	23.34	-122.59	123.98	0.5
6825.0	2.41	S70.57°W	6822.20	23.05	-123.57	124.94	1.1
6850.0	2.43	S69.16°W	6847.18	22.68	-124.56	125.90	0.3
6875.0		S70.03°W	6872.16	22.31	-125.56	126.87	0.2
6900.0	2.44	S69.01°W	6897.13	21.94	-126.56	127.84	0.2
6925.0	2.45	S70.22°W	6922.11	21.57	-127.56	128.81	0.2
6950.0	2.40	S68.19°W	6947.09	21.19	-128.55	129.77	0.4
6975.0	2.29	S67.84°W	6972.07	20.81	-129.50		0.4
7000.0	2.04	S63.47 W	6997.05	20.42	-130.36		1.2
7025.0	1.94	S58.89°W	7022.04	20.00	-131.12		0.8
7050.0	1.76	S53.83°W	7047.02	19.56	- 131.79	132.88	1.0

tomer : MARATHON OIL COMPANY Unit

1 Name : INDIAN HILLS #1 Date 18 MARCH 1999
ation : EDDY COUNTY, NM Filename : INDIAN#1

UAL BHL:

One of Wellsite Datum Above Field Datum 0.00 ft

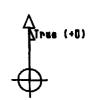
ght (of V	VELLSITE Datur	n Above	Field Datum	0.00	ft		
	MD	INC	DIR	TVD	+N/-S	+E/-W	vs	D'LEG
	ft	deg	deg	ft	ft	ft	ft	°/100
707	5.0	1.67 S	17.45°W	7072.01	19.09	-132.37	133.42	0.8
710		1.59 S	40.20°W	7097.00	18.58	-132.86	133.87	0.9
712		1.46 S	39.54°W	7121.99	18.06	-133.29	134.26	0.5
715		1.57 S	37.63°W	7146.98	17.55	-133.70	134.63	0.5
717		1.53 S	36.43°W	7171.97	17.01	-134.11	135.00	0.2
720	0.0		38.72°W	7196.96	16.49	-134.51	135.36	0.4
722	5.0		40.18°W	7221.96	15.99	-134.92	135.73	0.3
725	0.0	1.47 S	37.90°W		15.48	-135.33	136.10	0.3
727	5.0		40.80°W	7271.94	14.98	-135.74	136.48	0.3
730	0.0	1.60 S	38.08°W	7296.93	14.46	-136.17	136.86	0.5
~32	5.0		39.06°W		13.92	-136.60	137.26	0.1
735	0.0		40.89°W	7346.91	13.40	-137.04	137.66	0.3
.737	5.0		41.61°W	7371.90	12.92	-137.46	138.04	0.7
740	0.0		37.00°W	7396.90	12.44	-137.85	138.39	0.6
742	5.0	1.37 S	41.94°W	7421.89	11.97	-138.24	138.74	0.6
745	0.0		46.06°W		11.54		139.12	0.4
747	5.0		57.17°W		11.19		139.54	1.0
750	0.0		68.63°W		10.93		140.02	1.1
752	5.0		78.47°W		10.76		140.59	1.0
755	0.0	1.48 S	83.13°W	7546.85	10.66	-140.80	141.20	0.5
757	5.0		86.08°W		10.60		141.87	0.6
760	0.0		88.26°W		10.59		142.65	1.7
76 2	5.0		86.16°W		10.64		143.57	0.7
765	0.0		85.33°W		10.71		144.56	0.7
767	5.0	2.36 N	88.06°W	7671.77	10.77	-145.19	145.59	0.4
770	0.0	2.41 N	84.55°W	7696.75	10.84	-146.22	146.63	0.6

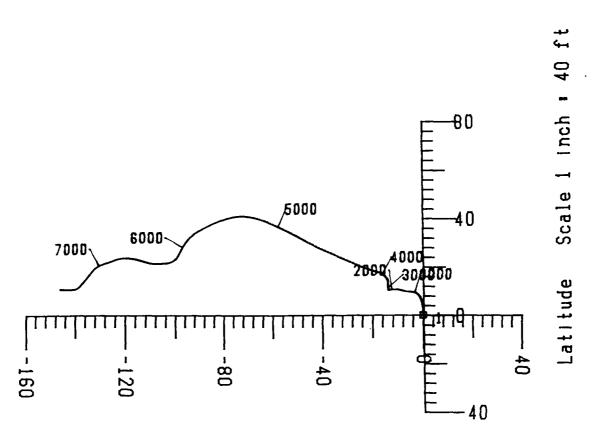
igin of Bottom Hole Closure WELLSITE CENTRE ttom Hole Closure 147 ft N85.76°W



SCIENTIFIC ORILLING INTERNATIONAL FOR MARATHON DIL COMPANY INDIAN MILLS UNIT \$1

IN Eddy County, Im





Departure Scale 1 inch : 40 ft



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

8-10-2001 Telelephone conversation W/ Cinn

July 19, 2001

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

Attention:

Ginny Larke

Engineering Technician

Re:

Indian Hills Unit Well No. 1 (API No. 30-015-10066) location within Section 21,

Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

Dear Ms. Larke:

Per my review of your letter dated June 21, 2001 concerning the official survey/resurvey of Section 21 as it relates to Marathon's Indian Hills Unit Well No. 1. Lets first address a couple of issues that really stand out in this matter.

will send.

(1) What about the Indian Hills unit agreement, does it have 100% participation or not? Ves - See. is a cum agreement - will

(2) Was this wellbore ever sidetracked and directionally drilled? If so, lets see a wellbore diagram, and directional survey and report.

Sincerely

Michael E. Stogner

Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Artesia



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Governor
Jennifer A. Salisbury
Cabinet Secretary

August 22, 2001

Lori Wrotenbery
Director
Oil Conservation Division

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

Attention:

Ginny Larke

Re:

Administrative application for an unorthodox subsurface gas well location for Marathon Oil Company's Indian Hills Unit Well No. 1 (API No. 30-015-10066) location within Section 21, Township 21 South,

Range 24 East, NMPM, Eddy County, New Mexico.

Dear Ms. Larke:

This letter acknowledges the receipt of your administrative application dated August 15, 2001 for what appears to be an unorthodox subsurface gas well location in the Upper Pennsylvanian interval for Marathon Oil Company's existing Indian Hills Unit Well No. 1 (API No. 30-015-10066) in the SW/4 SW/4 (Unit M) of Section 21, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico. The Division received your latest correspondence on August 21, 2001, accepts it as an administrative application, and assigned it NMOCD application reference No. pKRV0-123433433. Please refer to this number in future correspondence with the Division.

Our preliminary review indicates that the information provided in the application is not sufficient to process an administrative order. The following information is necessary:

- (1) a true and correct copy of the latest NMOCD Form C-102 showing the dedicated acreage for this well and designated pool from which this well's production is attributed; and
- (2) a completed and signed "Administrative Application Checklist", which is now mandatory for such filings.

Since the submitted information is insufficient to review, the application was ruled as incomplete on August 22, 2001. Please submit the above stated information by Wednesday, August 29, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the Division will continue to process your application. The additional information can be faxed to (505) 476-3471, or mailed to the Division in Santa Fe. If the necessary information is not submitted, your application will be returned to you.

Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465. Thank you.

Sincerely,

Michael E. Stogner Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Artesia

W. Thomas Kellahin, Legal Counsel for Marathon Oil Company - Santa Fe

I U Box 552 Midtand, TX 79702 915-687-8322 (Department Secretary) 915-687-8305 Fax Number

Marathon Oil Company

p. 1



X Urge	nt	☐ Please Comment	☐ Please Reply	☐ Please Recycle
Re:	Indian Hills Unit #1 NSL	CC:		
Phone:	505-476-3465	Date:	8/27/2001	
Fax:	505-476-3471	Pages	: 11 pages including	g cover sheet
To:	Mr. Michael E. Stogner	From:	Ginny Larke	

Comments:

Mr. Stogner:

In addition to the two items you requested in your letter, I am attaching the signed waiver letters that I have received from the Working and Offset Interest Owners. I've got one from everyone except Devon Energy and Hugh E. Hanagan. I have attached a copy of the return card showing that Mr. Hanagan did indeed receive the waiver letter, however I have not received the return card from Devon Energy. I called the post office to check on this and they are sending me a replacement card showing that Devon received the waiver letter on August 16, 2001. I will fax a copy of the card as soon as I receive it from the post office.

I sketched in the other Upper Penn producers' bottom hole locations on the C-102. I know the shape of the section is not correct, but the measured distances from outer boundaries are correct according to the information in our files.

If you have any questions or need any further information, please call me at (915) 687-8321. Thank you for your patience and perseverance in helping me to get this Unorthodox Location corrected and permitted.

Since, elv.

Liney Jacke

, to the residence of the field



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON

Covernor Jennifer A. Salisbury Cabinet secretary

August 22, 2001

MATATHON OIL

Lori Wrotenbery Director Oil Conservation Division

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

Attention:

Ginny Larke

Re:

Administrative application for an unorthodox subsurface gas well location for Marathon Oil Company's Indian Hills Unit Well No. 1 (API No. 30-015-10066) location within Section 21. Township 21 South. Range 24 East, NMPM, Eddy County, New Mexico.

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- (2) a completed and signed "Administrative Application Checklist", which is now mandatory for such filings.

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The Division cannot proceed with your application until the required information is submitted. Upon receipt, the Division will continue to process your application. The additional information can be faxed to (505) 476-3471, or mailed to the Division in Santa Fe. If the necessary information is not submitted, your application will be returned to you

Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465. Thank you.

Michael E. Stogner Chief Hearing Officer/Engineer

New Mexico Oil Conservation Division - Artesia cc:

W. Thomas Kellahin, Legal Counsel for Marathon Oil Company - Santa Fe

LATEIN	SUSPENS	E ENCINEER	LOGGEDIN	TYPE	APP NO	
			ABOVE THIS LINE FOR DIVISION U	SE ONLY		
	Ī		CONSERVATIO neering Bureau - ncis Drive, Santa Fe,			
	A	DMINISTRATI	VE APPLICA	TION COV	ERSHEET	19 (m. 1900) 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
TH	HIS COVERSHEET IS N	MANDATORY FOR ALL ADMIN WHICH REQUIRE!	STRATIVE APPLICATIONS PROCESSING AT THE DIV			REGULATIONS
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[1]	TYPE OF AF [A]	PLICATION - Check Location - Spacing U NSL NSP	nit - Simultaneous			
	Check [B]	One Only for [B] or [Commingling - Stora DHC CTB	ge - Measurement	C □ OLS □	OLM	
	[C]	Injection - Disposal - □ WFX □ PMX		Enhanced Oil R		
[2]	NOTIFICAT [A]	ION REQUIRED TO Working, Royalty		* * *	Does Not Apply ers	
	[B]	☐ Offset Operators,	Leaseholders or Su	rface Owner		
	[C]	☐ Application is On	e Which Requires P	ublished Legal N	lotice	
	[D]	Notification and/o	r Concurrent Appro	oval by BLM or Stick Land Office	SLO •	
	[E]	X For all of the above	e, Proof of Notifica	tion or Publication	on is Attached, and	/or.
	[F]	Waivers are Attac	hed			
[3]	INFORMATI	ION / DATA SUBMI	TTED IS COMPL	ETE - Certificati	on	
Oil con	Conservation Divinplete to the best <i>I understand tha</i>	, or personnel under my vision. Further, I asser of my knowledge and at any omission of data and notification is caus	t that the attached ap where applicable, v (including API nu	pplication for adnerify that all inter mbers, pool cod	ninistrative approva rest (WI, RI, ORRI es, etc.), pertinent	ll is accurate and is common. information
	Note.	Statement must be comple	ted by an individual with	managerial and/or	supervisory capacity.	
	.Tatarzyn	o y			eam Manager	8/27/01
Print	or Type Name John Kloos	Signature sterman		Title		Date

A CONTRACTOR OF THE PARTY OF TH

e-mail Address

DISTRICT | 1 *P.O. Box 1980, Hobbs, NW 88241-1980

DISTRICT III

DISTRICT IV

State of New Mexico

Energy, Minerals and Natural Resources Departn.

Form C-102 kevised February 10, 1994 Submit to Appropriate District Office

State Lease - 4 Copies Fee Lease - 3 Copies

DISTRICT II P.O. Drawer DD, Artesia, NM 68211-0719

1000 Rio Brazos Rd., Aztec. NM 87410

P.G. BOX 2088, SANTA FE, N.M. 87504-2088

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Code			Poul Name				
30-015-10066	33685	Indian	Basin	Upper	Penn	Associated	Pool		
Property Code 6409	· · · · · · · · · · · · · · · · · · ·	perty Name				Well Number	er		
OGRID No. 014021	Ope MARATHON	rator Name OIL COMP	ANY			Elevation 3670			

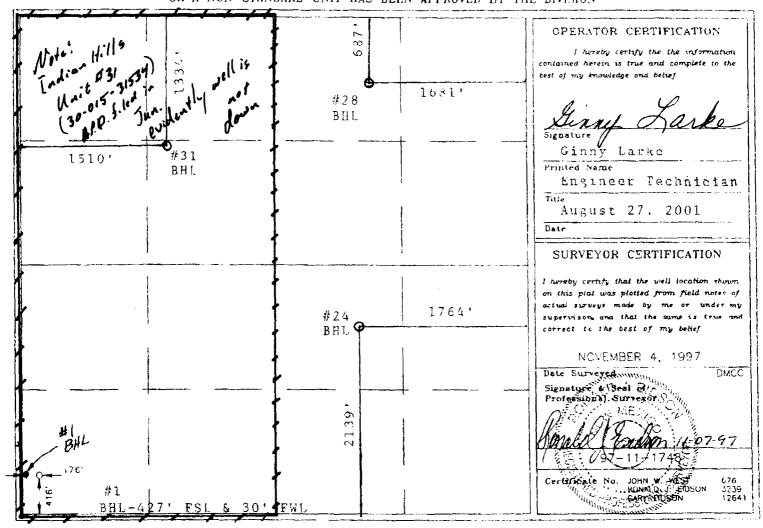
Surface Location

UL or lot No.	Section	Township	Rouge	Lot idn	Feet from the	North/South line	Feet from the	East/West line	County
М	21	21 S	24 E		416	SOUTH	176	WEST	EDDY
L		<u> </u>							i

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot ldn	Feet from the	North/South line	Feet from the	East/West line	County
М	2 l	21-S	24-E		427	South	30 '	West	Eddy
Dedicated Acres	Dedicated Acres Joint or Infill Consolidation Code Order No.								
320	Inf	i11							
I									

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



... MON 17 * 1

ng apagram membahan di dalam salah

- ~ ·

Southern Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 14, 2001

All Interest Owners of the Indian Hills Unit and Indian Hills Unit Gas Com I cases Certified Mail (Return Receipt Requested)

Re: Indian Hills Unit Well No. 1 Unorthodox Location

Dear Sir or Madam:

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Sincerely,	Signature: frau hw. Podfeela
Ginny Larke	Printed Name: Frank W. Podpechan
Ginny Larke	Title: President
Engineer Technician	Company Name: Claremont Corporation
Attachments	Date: August 17, 2001

Southern Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

RECEIVED AUG 1 5 2001

August 14, 2001

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Sincerely.	Signature: A lule
Ginry Larke	Printed Name: Tim G, Culp
Ginny Larke	Title: Vice President
Engineer Technician	Company Name: Tandem Energy Corporation
Attachments	Date: August 22, 2001

AUG 17 2001

Southern U.S. Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 14, 2001

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Sincerely,

Ginny Larke

Engineer Technician

Attachments

Signature: (1)

Printed Name: Dave Woters

Title: Sevier Landinan

Company Name: 19/05 Independent Exploration, Inc

Date: 8/20/01

Ginny Larke

Southern U.S. Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 14, 2001

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Sincerely,

Ginny Larke Ginny Larke

Engineer Technician

Attachments

Signature: Nobest 6 Shelf

Printed Name: Robert 6 Sheltm.

Title: Attorney - h - FAt.

Company Name: Mearling Saxelination Company

Date: 8//7/4/

Southern U.S. Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

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Engineer Technician

Attachments

Company Name: Hourgan Profesties

Southern U.S. Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

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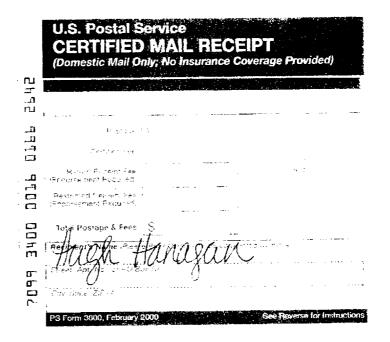
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Sincerely.	Signature: fllin / minson
Ginny Larke	Printed Name: NOLAN BRUNSON
Ginny Larke	Title:
Engineer Technician	, , , , , , , , , , , , , , , , , , ,
Attachments	Company Name:
Attachments	Date: 8/16/8/

HC=57.04 MAH (17.40)

on the reverse side?	SENDER: Complete items 1 and/or 2 for additional services. Compete items 3, 4a, and 4b. Print your name and address on the reverse of this form so that is card to you. Attach this form to the front of the mallplece, or on the back if spapermit. Write "Return Receipt Requested" on the mallplece below the and The Return Receipt will show to whom the article was delivered delivered.	icle rumber	l also wish to receive the following services (for an extra fee): 1. Addressee's Address 2. Restricted Delivery
N ADDRESS completed	Hugh Hanagan P.O. Box 329 Roswell, NM 88210-0329	4b. Service Ty Ab. Service Ty Registered Express Marketim Rece 7. Date of Deli	PO SUCCEPTIFIED SU
is your RETURN	6. Signature (Addressee of Agent) PS Form 3811, December 1994	8. Addressee's 'ee is paid)	s Address (Only if requested and



P. O. Box 552 Midland, TX 79702 915-687-8322 (Department Secretary) 915-687-8305 Fax Number

MATATHON OIL

Marathon Oil Company



X Urge	nt	☐ Please Comment	☐ Please Reply	☐ Please Recycle
Re:	Indian Hills Unit #1 NSL	cc:	THE CONTRACT OF THE PROPERTY O	in salam ali ne dalam e si ne e di ne ne e dalam e salam ali salam e dalam e dalam e dalam e dalam e dalam e d
Phone:	505-476-3465	Date:	8/29/2001	
Fax:	505-476-3471	Pages:	3 pages including	cover sheet
To:	Mr. Michael E. Stogner	From:	Ginny Larke	

RE: NMOCD APPLICATION NO. pKRV0-123433433

Mr. Stogner:

I just realized that the Administrative Application Coversheet I sent you on 8/27/01 was not signed. i lere is the signed copy.

 \perp am attaching the signed waiver letter from Mr. Hugh E. Hanagan. Treceived it yesterday in the mail.

If you have any questions or need any further information, please call me at (915) 687-8321. Again, thank you for helping me to get this Unorthodox Location corrected and permitted.

Sincerely, Ginny Larke

Ginny Larke

Southern Business Unit Domestic Production



P.O. Box 552 Midland, TX 79702-0552 Telephone 915/682-1626

August 14, 2001

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Signature: Attachments

Signature: Attachments

Signature: Attachments

Signature: Attachments

Signature: Attachments

Signature: Attachments

Printed Name: Hugh Hanagan

Title:

Company Name:

Date: 8/27/01

DATE N	SUSPE	NSE ENGINEE	R	LOGGED IN	TYPE		APP NO	
			ABOV	E THIS LINE FOR DIVISION US	SE ONLY			
		NEW MEXIC 1220 South	- Engineer	NSERVATIO ring Bureau - Drive, Santa Fe,		N C		
		DMINISTF	RATIVE	APPLICA	TION CO	VERS	HEET	
ТН	IS COVERSHEET IS	MANDATORY FOR A		TIVE APPLICATIONS			SION RULES AND F	REGULATIONS
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	[C]	Injection - Di		ssure Increase -				
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	[C]	☐ Applicatio	n is One Wh	nich Requires P	ublished Leg	al Notice		
	[D]	Notification	n and/or Co Land Management	ncurrent Appro	val by BLM ic Lands, State Land	or SLO Office		
	[E]	⊠ For all of t	he above, Pr	oof of Notifica	tion or Public	eation is	Attached, and/	or,
	[F]	Waivers as	e Attached					
[3]	INFORMA?	TION / DATA S	UBMITTE	D IS COMPLI	E TE - Certifi	cation		
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	. <u>Tatarzyn</u> or Type Name		July arture	7			Manager	8/27/01 Date

e-mail Address



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

August 30, 36P1 - 6 PM 12: 36

Lori Wrotenbery
Director
Oil Conservation Division

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

Attention:

Ginny Larke

Re:

Administrative application for an unorthodox subsurface gas well location for Marathon Oil Company's Indian Hills Unit Well No. 1 (API No. 30-015-10066) location within Section 21, Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

Dear Ms. Larke:

This letter acknowledges the receipt of your supplemental data to this application (NMOCD application reference No. pKRV0-123433433) that was submitted on August 29, 2001.

Unfortunately you submitted the Division's old "Administrative Application Coversheet", which is no longer applicable. This supplemental information is still not sufficient in order for the Division to process an administrative order. The following information is necessary:

A completed and signed new and improved "Administrative Application Checklist".

Since the submitted supplemental information is insufficient, the application remains incomplete as on August 30, 2001. Please submit the above stated information by Monday, September 10, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the Division will continue to process your application. The additional information can be faxed to (505) 476-3471, or mailed to the Division in Santa Fe. If the necessary information is not submitted, your application will be returned to you.

Should you have any questions concerning this matter, please contact me in Santa Fe at (505) 476-3465. Thank you.

Sincerely,

Michael E. Stogner Chief Hearing Officer/Engineer

cc: New Mexico Oil Conservation Division – Artesia

W. Thomas Kellahin, Legal Counsel for Marathon Oil Company - Santa Fe

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505



ADMINISTRATIVE APPLICATION CHECKLIST THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **Application Acronyms:** [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] **ISWD-Salt Water Disposall** [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication [A] NSL NSP SD Check One Only for [B] or [C] Commingling - Storage - Measurement ☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM Injection - Disposal - Pressure Increase - Enhanced Oil Recovery [C] ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR [D]Other: Specify [2] NOTIFICATION REQUIRED TO: - Check Those Which Apply, or Does Not Apply Working, Royalty or Overriding Royalty Interest Owners [A] Offset Operators, Leaseholders or Surface Owner [B] Application is One Which Requires Published Legal Notice [C] Notification and/or Concurrent Approval by BLM or SLO [D] U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office For all of the above, Proof of Notification or Publication is Attached, and/or, [E]Waivers are Attached [F] [3] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE. **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative [4] approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by an individual with managerial and/or supervisory capacity. Asset Team Manager K. W. Tatarzyn Print or Type Name Signature

e-mail Address



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

GARY E. JOHNSON
Governor
Jennifer A. Salisbury
Cabinet Secretary

August 30, 2001

Lori Wrotenbery
Director
Oil Conservation Division

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

Attention:

Ginny Larke

Re:

Administrative application for an unorthodox subsurface gas well location for Marathon Oil Company's Indian Hills Unit Well No. 1 (API No. 30-015-10066) location within Section 21,

Township 21 South, Range 24 East, NMPM, Eddy County, New Mexico.

Dear Ms. Larke:

This letter acknowledges the receipt of your supplemental data to this application (NMOCD application reference No. pKRV0-123433433) that was submitted on August 29, 2001.

Unfortunately you submitted the Division's old "Administrative Application Coversheet", which is no longer applicable. This supplemental information is still not sufficient in order for the Division to process an administrative order. The following information is necessary:

A completed and signed new and improved "Administrative Application Checklist".

Since the submitted supplemental information is insufficient, the application remains incomplete as on August 30, 2001. Please submit the above stated information by Monday, September 10, 2001.

The Division cannot proceed with your application until the required information is submitted. Upon receipt, the Division will continue to process your application. The additional information can be faxed to (505) 476-3471, or mailed to the Division in Santa Fe. If the necessary information is not submitted, your application will be returned to you.

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