State of New Mexico Energy, Minerals & Natural Resources

Form C-101 May 27, 2004

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410

District IV

Oil Conservation Divsiion 1220 S. St. Francis Dr. Santa Fe, NM 87505 Submit to appropriate District Office

1220 S. St. Francis Dr., Santa Fe, NM 87505 Santa Fe, NM 87505 AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL RE-ENTER DEEPEN DILICRACK OR ADD A ZONE

| | | ¹ Oper | ator Name an | d Address | DL, KL-L | 1112 | K, DEEL EIN, | , PLUGBAC | ² OGRID Numb | | |
|---|--|---|-----------------------------------|---|---|--|---|---|-------------------------|---|--|
| Marathon Oil Company | | | | | | | | 014021 | | | |
| P.O. Box 3487 Houston, 1x. 77253 | | | | | 7253 | | | 30- | 3 API Number | 965 | |
| Property Code Property | | | | | | | | | ell No. | | |
| 9 Proposed Pool 1 | | | | | Dayton H | ardy | | 10.5 | | 7 | |
| | Penro | se Skelly | | J | | | | ¹⁰ Proposed I | 20012 | | |
| | | | | | ⁷ Surface | Locat | tion | | | *** <u></u> | |
| UL or lot no. | Section | Township | Range | Lot. Idn | | | North/South Line | Feet from the | East/West line | County | |
| I | 20 | 21-S | 37-E | <u> </u> | 1650 | - | South | 330 ' | East | Lea | |
| | | 8 Pr | oposed F | Bottom : | Hole Locat | ion If | Different Fro | om Surface | | | |
| UL or lot no. | Section | Township | Range | Lot. Idn | | | North/South Line | Feet from the | East/West line | County | |
| | | | | A | dditional W | /ell L | ocation | | <u></u> | | |
| 11 Work Ty | | 12 | Well Type Cod | le | 13 Cable/I | Rotary | ¹⁴ Lea | ase Type Code | 15 Ground I | evel Elevation | |
| ¹⁶ Mul | N tinle | 17 | Oil Proposed Dept | h | 18 Forma | | 19 | P | 12343 | | |
| 19141 | прк | | 4,500' | " | Grayi | | | Contractor OS | | ud Date | |
| Depth to ground | | > 50' | | Distance from | om nearest fresh | water v | | Distance from near | | | |
| Pit: Liner: Sv | | MIL mils th | ick Clay | / D | Pit Volume 2 | 000 | LLL D'III M | 1 20 | 31.704 | 10 | |
| • | _ | | ick Clay | /Ш | | | | \\cdots | 124 y | ω / | |
| Closed-L | oop System L | <u> </u> | 21 | | | | | \ E | Oil-based 🔼 | Gas/Air 🗌 | |
| | | | 21F | Propose | d Casing ar | nd Ce | ment Progran | م /روح | <u>``</u> | 1 353/ | |
| Hole S | Size | Casin | | | weight/foot | Setting Depth Sacks of Cement Estimated TO | | | stimated TOC | | |
| 111 | | 8.6 | 25" | | 24# | ļ | 400' | 150 surf | | surface | |
| 7.87 | 5" | 5. | 5" | | 17 | 4,500' | | 820 | 820 s | | |
| | | | | | · | | | | | | |
| | | | • • • | | | | | | | | |
| | | <u> </u> | | | | <u> </u> | | | | | |
| Production Tail- 270 : Mud program | casing: : sks. clas m: 0-400' '- Brine | Lead-550 s s H, 50/50 fresh wate water, 10p | sks. clas poz w/ er, CIRC p | s H 35/0 2% gel, pits or c. Reser | 55 POZ w/ 6 5% salt, . reserve, v rves, Lime | % gel 25# c risc 2 PH9. | 14.0 ppg ., 5% salt, .2 sell., 1.35 v | Data Ui 25# cell., yi leld, wt. 14. | 11655 Dinnii | new productive zone. From Approv g Underway g.12.4 | |
| BOPE-3M, di | | | | I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines a general permit , or an (attached) alternative OCD-approved plan . Signature: | | | | | | | |
| I hereby certify my knowledge an constructed according to the constructed | y that the informal belief. I fur- ording to NM ternative OCI | mation given a her certify the OCD guidelin | at the drilling | g pit will b | e | Appro | OIL C | ONSERVAT | ION DIVISI | ON | |
| 23 I hereby certifing knowledge an constructed account (attached) alt | y that the information of the control of the contro | mation given a her certify the OCD guidelin | at the drilling | g pit will b | e | | oved by: | ONSERVAT | ION DIVISI | ON | |
| 23 I hereby certify my knowledge and constructed accordant (attached) alto Signature: Printed name: M | y that the information of the control of the contro | mation given a ther certify the OCD guidelin D-approved pl | at the drilling | g pit will b | e | Title: | oved by: | ENCIAIRE | Nay | ON | |
| BOPE-3M, cb 23 I hereby certifing knowledge an constructed account (attached) alto Signature: Printed name: Marticle: Authorized | y that the information of the life of the | mation given a ther certify the OCD guidelin D-approved pluck | at the drilling | g pit will b | e | | oved by: | ENCIAIRE | ION DIVISI | ON | |
| BOPE-3M, cb 23 I hereby certify my knowledge an constructed acco an (attached) alt Signature: Printed name: M | y that the information of the life of the | mation given a ther certify the OCD guidelin D-approved plug. Tech. | at the drilling | g pit will b | e | Title: | oved by: | ENCIAIRE | Nay | ON | |

State of New Mexico

DISTRICT I 1625 N. FRENCH DR., HORBS, NM 88240

Energy, Minerals and Natural Resources Department

DISTRICT II 1301 W. GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

WELL LOCATION AND ACREAGE DEDICATION PLAT

Pool Code

Form C-102 Revised JUNE 10, 2003 Submit to Appropriate District Office

Pool Name

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

1220 S. ST. PRANCIS DR., SANTA PR, NM 87505

API Number

DISTRICT IV

Santa Fe, New Mexico 87505

State Lease - 4 Copies Pee Lease - 3 Copies

☐ AMENDED REPORT

| | | 965 | 50 | <u>350</u> | Property Nan | WERDSE SI | Kelly (Gr | Ayburg | |
|--|-----------|---------------|---------------------|---------------------|------------------------------|---------------------------|--|--|-------------------------|
| Property Code 006399 | | | | Well Number | | | | | |
| OGRID No. Operator Name MADATHON OH COMPANY | | | | | | | 1 | Elevation | |
| MARATHON OIL COMPANY Surface Location | | | | | | | 349 | ! ' | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | 1 5 45 4 11 | | | |
| 1 | 20 | 21-S | 37-E | | Feet from the | North/South line SOUTH | 330 | East/West line | County LEA |
| L | L | l | Bottom | Hole Lo | J | erent From Su | <u> </u> | LAGI | |
| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | Rast/West line | County |
| | | | | | | | | | |
| Dedicated Acre | s Joint o | r Infill Co | nsolidation | Code Or | rder No. | | | | |
| 40 NO AVI | NADIE R | | COLONIED | | | | | | |
| NO ALL | JUARES A | OR A 1 | SSIGNED NON-STAN | TO THIS IDARD UN | COMPLETION (NIT HAS BEEN | UNTIL ALL INTE | RESTS HAVE BI THE DIVISION | EEN CONSOLIDA | ATED |
| | | | | 1 | T | | ODDD I | | |
| | 1 | GE | EODETIC C NAD 2. | | ES | | 1 i | OR CERTIFICAT | |
| | . 1 | | Y=5335 | 59.3 N | | | contained herei | y certify the the in n is true and compl | formation ste to the |
| | | | X=8566 | 13.7 E | 1 | | best of my knor | viedge and belief. | |
| | | | AT.=32°27 | | • | | 1 | ~1 | l |
| | | LO | NG.=103* | '0'37.74" | W | | Signature | lick | |
| | | | | | | | mike. | mick | |
| | 1 | | | | 1 | | Printed Nam | ~ ^ | |
| | | | | ! | | | Title | 0 | |
| | 1 | | | 1 | | | | 0-04 | |
| | 1 | | | | 1 | | SURVEYO | OR CERTIFICAT | TON |
| | | | | <u> </u> | — — ₁ | 7,77,71 | | | |
| | 1 | | | | 6. | #6 0 | on this plat w | y that the well locat as plotted from field | i notes of |
| | | | | 1 | V | | supervison, an | made by me or ud that the same is | true and |
| | | | | 1 | | 77 | .11 | e best of my belie | r |
| | 1 | | | | γ. | 40AC | ÷l octo | BER 12, 2004 | |
| | | | | | | - 1 1++ 1+ 111 | | Seal of | JR |
| | | | | i 1 | | İ | Professional | Surveyor | |
| | 1 | | | | 1 | 650'- | har 4 | Elm =11 | 17/04 |
| | 1 | | | | 1 | Ī | | 04-11.1 <i>3</i> 38 | • 1/ 09 |
| | | | | 1 | | | Certificate N | o. GARY BIDSON | 12641 |
| | 1 | | | | İ | ļ | The State of the S | ON MANAGEMENT | } |

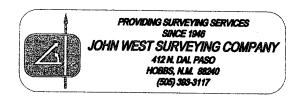
| SECTION 20, TOW | NSHIP 21 SOUTH, R | PANGE 37 EAS | ST, N.M.P.M., NEW MEXICO |
|---|---|--|--|
| 221 000111, | | | IVEW WEXICO |
| | | | |
| | 150' NORTH OFFSET 3490.0' | | nom Nom |
| 700 150' WEST OFFSET 3491.2' | DAYTON HARDY #7 □ □ □ ELEV. 3491.0' LAT.=32°27'41.61" N LONG.=103°10'37.74" W | 150' EAST □ OFFSET 3490.2' | ,009 |
| | □ 150' SOUTH OFFSET 3489.9' | | |
| | 600' | | |
| DIRECTIONS TO LOCATION FROM THE INTERSECTION OF ST | LIMV #0 AND | | |
| FROM THE INTERSECTION OF ST. CO. RD. #E33 (N. TURNER RD.) TURNER RD. FOR APPROX. 1.3 I LOCATION IS APPROX. 400' WES | GO NORTH ON N. MILES. PROPOSED | 0 1. Scale:1"=100' | 00 200 Feet |
| LOUATION IS AFFRUX. 400 WES | • | ARATHON OIL | COMPANY |
| PROVIDING SURVE SINCE JOHN WEST SURVE | YING SERVICES 1946 EVING COMPANY | DAYTON HARDY #7 I CATED 1650 FEET FROM TH GO FEET FROM THE EAST JI ISHIP 21 SOUTH, RANGE JI LEA COUNTY, NEW ME | E SOUTH LINE NE OF SECTION 20, ' EAST, N.M.P.M., |
| 412 N. DAL | .PASO Survey Date: | 10/12/04 Sheet | 1 of 1 Sheets |
| HOBBS, N.M. (505) 323 | 2117 | : 04.11.1338 Dr By: J.R | |
| | | '04 Disk: CD#10 041 | 11338 Scale:1"=100' |

VICINITY MAP

| | | | | | T | | T | | | | | | | |
|----------|---------------|----------------------|------------------------------|---------------|-------------|-----------------|---------|--------------------|------------|----------------|------------------|--------------------|----------------------|-----|
| \vdash | | | | | | - | + | | | | H59 | | | |
| | 20 8 | 21 | 22 | 23 | 24 % | 원 88 19 요 | ; | 20 | 21 | 22 | 53 | ୟ 24 ୧୧ ୟ | 82 65 19 82 | 20 |
| | MADDOX | | 27 [LL_ | 26 | 25 | 30 | | 29 | 28 | 27 | 26 | 25 | 30 | 29 |
| | H41 32 | 33 H | 34 | 35 HIL | 36 | 31 | | 32 | 33 | 34 | 35 | 36 | 31 | 32 |
| GULF | ST. 175 | CURRY | 2 | 1 | 6 | 5 | | 4 | 3 | | St 18 | 6 | 5 | |
| Q a | IL ÇE | NTE] | R | 15 | 7 | 8 | ER | 9 DEC | ı | n 11 | 15 | 7 | 8 | |
| GULF | 16 ST. 176 | © 15 S EUNICE RECREA | 14 MUNICIPAL TION_AREA | | | 1 | N. TURN | 16 | 15 | 14 Jūnes ci | 13 TY PRIVATE | 18° | PRIVATE | RD. |
| 20 | 21 | 27. 8 | 23 DA | | 2DY #7 | 20 | - 1 | <u>.</u> EUI | VICI ez | E38 | 24 | 8 38 19 19 19 | 20 | > |
| 29 | LEA C | D EUNICE AF | 26 C0Y0T | 25 HILL | 57. 30 8 | 29 | | 28] 7/ 28] 7/ | E33 27 | VERTAL 26 | ST. 18 | PRIVATE RD. | /2°5 | |
| 32 | 33 | 34 | 35 | 36 | 31 | 32 TE | | EZ3 AVE. 33 | AMITS 3 | ST. 2 | 34 | 31 | ST. 234 | |
| 5 | 4 | 3 | 2 | i | 6 | 5 | EGION | 4 | 3 | 2 | ARD | 6 | 5 | |
| 8 | 9 | 10 | ıı DELAW | ız RE BASI | 7 | 8 | S, LE | 9 | 10 | 87 75 | DRINKARD | 7 | 8 | |
| 17 | 16 | 15 | 14 | E21 13 | 18 | 1 | 7 | 16 | 15 | 14 | 13 | 8 38 18 8 38 18 | 17 | |
| | | | | | | | | | | | | | | |

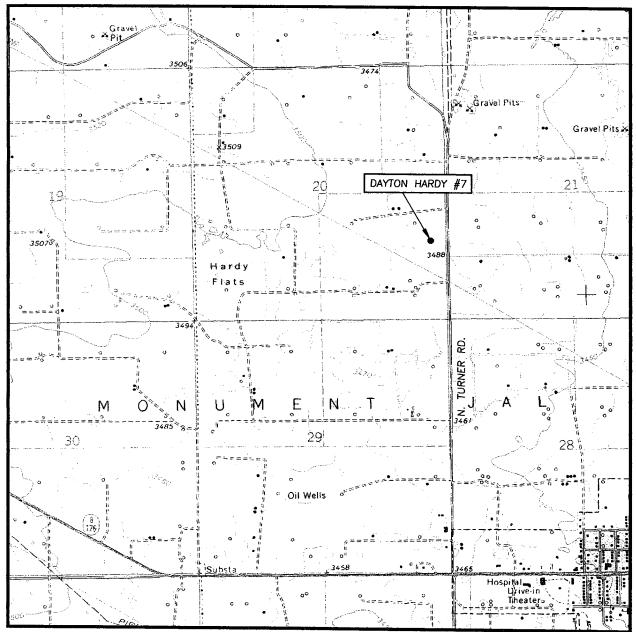
SCALE: 1" = 2 MILES

| SEC. <u>20</u> T | VP. <u>21-S</u> RGE. <u>37-E</u> |
|------------------|----------------------------------|
| SURVEY | N.M.P.M. |
| COUNTY | LEA |
| DESCRIPTION | 1650' FSL & 330' FEL |
| ELEVATION | 3491' |
| OPERATOR | MARATHON |
| LEASE | DAYTON HARDY |





LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: EUNICE, N.M. - 10'

SEC. 20 TWP. 21-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 1650' FSL & 330' FEL

ELEVATION 3491'
MARATHON
OPERATOR OIL COMPANY

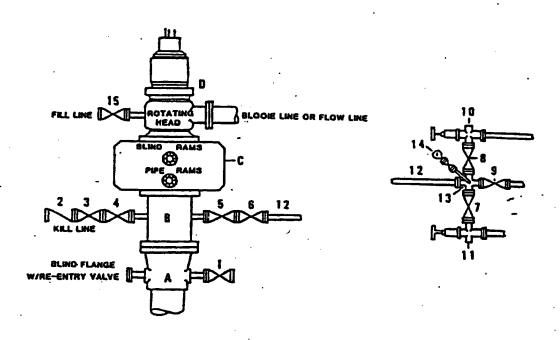
LEASE DAYTON HARDY

U.S.G.S. TOPOGRAPHIC MAP
EUNICE, N.M.



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 383-3117

DRILLING CONTROL



DRILLING CONTROL

MATERIAL LIST - CONDITION II - B

| X. | Wellhead |
|----------------|--|
| 8 . | 1000; W.P. drilling spool with a 2" minimum flanged outlet for kill line and 3" minimum flanged outlet for choke line. |
| e . | 3000# W.P. Dual ram type preventer, hydraulic operated with 1° steel, 3000# W.P. control lines (where substructure height is adequate, 2 - 3000# W.P. single ram type preventers may be utilized). |
| | Rotating Head with fill up outlet and extended Blooie Line. |
| 1,3,4, 7,6, | 2" minimum 3000f W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| ì. | 2" minimum 3000# W.P. back pressure valve. |
| ,6,9 | 3" minimum 3000# W.P. flanged full opening steel gate valve, or Halliburton Lo Torc Plug valve. |
| 2 | 3" minimum schedule 80, Grade "8", seemless line pipe. |
| 3 | 2" minimum x 3" minimum 1000s W.P. flanged cross. |
| 0,11 | 2° minimum 3000f W.P. adjustable choke bodies. |
| 4 | Cameron Hud Gauge or equivalent (location optional in choke line). |
| 5 | 2" minimum 1000f W.P. flanged or threaded full opening steel gate valve, or Halliburton to Torc Plug valve |

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Form C-144

March 12, 2004

| Pit or Below-Gra | nde Tank Registration or Clo | sure. |
|---|--|--|
| Is pit or below-grade tan | k covered by a "general plan"? Yes | No 🔯 |
| Type of action: Registration of a pit of | or below-grade tank Closure of a pit or below | y-grade tank |
| Operator:Marathon Oil CoTelephone: | | rathonoil.co |
| Address:P.O. Box 3487 Houston, Tx. 77253 | | |
| Facility or well name: _Dayton Hardy #7API #:30-025-3676- |) U/L or Qtr/Qtr_NESESec20T21S_R_37 | 7E |
| County:LEALatitudeLongitude | NAD: 1927 🔲 1983 🔲 Surfa | ce Owner Federal ☐ State ☐ Private ☒ Indian ☐ |
| | _ - | O WHO I SOSTAL CHILDREN THE EN HIGHAIL CHI |
| Pit | Below-grade tank | |
| Type: Drilling ☑ Production ☐ Disposal ☐ | Volume:bbl Type of fluid: | |
| Workover ☐ Emergency ☐ | Construction material: | |
| Lined 🛭 Unlined 🗌 | Double-walled, with leak detection? Yes 🔲 I | |
| Liner type: Synthetic Thickness 12_mil Clay Volume2000_bbl | | |
| Depth to ground water (vertical distance from bottom of pit to seasonal high | Less than 50 feet | (20 points) |
| water elevation of ground water.) | 50 feet or more, but less than 100 feet | (10 points) |
| The state of Broads water, | 100 feet or more X | (0 points) |
| Wellhead protection area: (Less than 200 feet from a private domestic | Yes | (20 points) |
| water source, or less than 1000 feet from all other water sources.) | No X | (0 points) |
| | - 1 | |
| Distance to surface water: (horizontal distance to all wetlands, playas, | Less than 200 feet | (20 points) |
| irrigation canals, ditches, and perennial and ephemeral watercourses.) | 200 feet or more, but less than 1000 feet | (10 points) |
| | 1000 feet or more X | (0 points) |
| | Ranking Score (Total Points) | |
| If this is a pit closure: (1) attach a diagram of the facility showing the pit's | relationship to other equipment and tanks. (2) Inc | dicate disposal location: |
| onsite ⊠ offsite ☐ If offsite, name of facility | . (3) Attach a general description of remedial | action taken including and the |
| date. (4) Groundwater encountered: No Tes Tif yes, show depth below | w ground surface ft and attach see | mela results (5) As a least of the start date and end |
| diagram of sample locations and excavations. | | |
| hereby certify that the information above is true and complete to the best of notice to | ny knowledge and belief. I further certify that t general permit , or an (attached) alternative | the above-described pit or below-grade tank has |
| Date: 11-20-04 | ignature <u>m7muk</u> | |
| | relieve the engenter of lightly by 11.4 | |
| Your certification and NMOCD approval of this application/closure does not rotherwise endanger public health or the environment. Nor does it relieve the oregulations. | pperator of its responsibility for compliance with a | s of the pit or tank contaminate ground water or any other federal, state, or local laws and/or |
| Approval: | | |
| Date: | | |
| Printed Name/Title PETROLEUM ENGINEER | Signature Control of the Signature | |
| | | |
| NOV 2 3 2004 | • | |
| | | |

