# Before the Oil Conservation Division Examiner Hearing June 13, 2019

Case No. 20562
Hades 2 TBC State Com 1H & Hades 2 SB State Com 3H



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

APPLICATION OF MARATHON PERMIAN OIL LLC FOR COMPULSORY POOLING, EDDY COUNTY, NEW MEXICO

CASE NO. 20562

### **APPLICATION**

Marathon Oil Permian LLC ("Marathon"), OGRID Number 372098, through its undersigned attorneys, hereby makes an application to the Oil Conservation Division pursuant to the provisions of NMSA (1978), Section 70-2-17, for an order pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the E/2 of Section 2, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. In support of this application, Marathon states as follows:

- 1. Marathon is an interest owner in the subject lands and has a right to drill a well thereon.
- 2. Marathon seeks to dedicate the E/2 of Section 2, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico to form a 320-acre, more or less, spacing unit.
- 3. Marathon plans to drill the Hades 2 TBC State Com 1H, Hades 2 FB State Com 2H, Hades 2 SB State Com 3H, Hades 2 FB State Com 4H, and Hades 2 SB State Com 5H wells to a depth sufficient to test the Bone Spring formation. These wells will be horizontally drilled.
- 4. These wells will be located within the Culebra Bluff; Bone Spring, South Oil Pool (Pool ID: 15011) and will comply with the Division's setback requirements.



- 5. Marathon sought, but has been unable to obtain, a voluntary agreement from all interest owners in the Bone Spring formation underlying the proposed spacing unit to participate in the drilling of the wells or to otherwise commit their interests to the wells.
- 6. The creation of a horizontal spacing unit and the pooling of all interests in the Bone Spring formation underlying the proposed unit will prevent the drilling of unnecessary wells, prevent waste and protect correlative rights.
- 7. Marathon further requests that it be allowed one (1) year between when the wells are drilled and when the first well is completed under the order.

WHEREFORE, Marathon requests this application be set for hearing before an Examiner of the Oil Conservation Division on June 13, 2019, and after notice and hearing as required by law, the Division enter its order:

- A. Pooling all mineral interests in a Bone Spring formation underlying a horizontal spacing unit within E/2 of Section 2, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico;
- B. Designating Marathon as operator of this unit and the wells to be drilled thereon;
- C. Authorizing Marathon to recover its costs of drilling, equipping and completing the wells;
- D. Approving actual operating charges and costs charged for supervision, together with a provision adjusting the rates pursuant to the COPAS accounting procedure;
- E. Setting a 200% charge for the risk involved in drilling and completing the wells in the event a working interest owner elects not to participate in the wells;

F. Allowing a time period of one (1) year between when the wells are drilled and when the first well is completed under the order.

Respectfully submitted,

MODRALL, SPERLING, ROEHL, HARRIS & SISK, P.A.

Deana M. Bennett

Lance D. Hough

Post Office Box 2168

500 Fourth Street NW, Suite 1000

Albuquerque, New Mexico 87103-2168

Telephone: 505.848.1800

dmb@modrall.com

ldh@modrall.com

Attorneys for Applicant

CASE NO. 20562 Application of Marathon Oil Permian LLC for compulsory pooling, Eddy County, New Mexico. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the E/2 of Section 2, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Hades 2 TBC State Com 1H, Hades 2 FB State Com 2H, Hades 2 SB State Com 3H, Hades 2 FB State Com 4H, and Hades 2 SB State Com 5H wells, to be horizontally drilled. The producing area for the wells will be orthodox. Also to be considered will be the cost of drilling and completing the wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells, and allowing a one year period between when the wells are drilled and when the first well is completed. Said area is located approximately 3.5 miles Northeast of Loving, New Mexico.

District 1
1625 N. French Dr., Hobbs, NM 88240
Phone, (575) 393-6161 Fax: (575) 393-0720
District III
811 S. First St., Artesia, NM 88210
Phone, (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone, (505) 334-6178 Fax: (505) 334-6170
District IIV
1220 S. St., Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

318.97

API Number

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

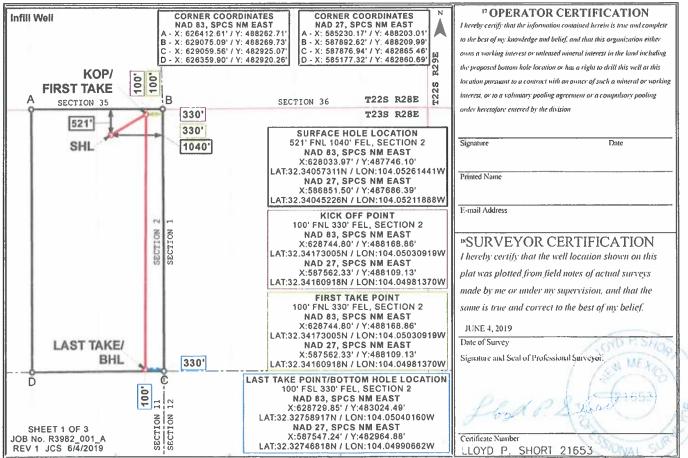
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1  | API Numbe                     | Т        |       | Poor Cone   | l l           | roor vanie       |               |            |           |             |  |
|--|-------------------------------|----------|-------|-------------|---------------|------------------|---------------|------------|-----------|-------------|--|
|  | 15011 CULEBRA BLUFF; BONE SPR |          |       |             |               |                  | IE SPRII      | ING, SOUTH |           |             |  |
| 4 Property   | Code                          |          |       |             | 5 Property 1  | Name             |               |            | 6 W       | 'ell Number |  |
|  |                               |          | HAD   | DES 2 TBC S | STATE COM     |                  |               | 1H         |           |             |  |
| 7 OGRID  | No.                           |          |       |             | 8 Operator ?  | Name             |               |            | 9         | Elevation   |  |
| 37209  | 98                            |          |       | MARA        | THON OIL      | PERMIAN LL       | .C            |            |           | 3068'       |  |
|  | ™ Surface Location            |          |       |             |               |                  |               |            |           |             |  |
| UL or lot no.  | Section                       | Township | Range | Let Idn     | Feet from the | North/South line | Feet from the | East/V     | Vest line | County      |  |
| A  | 2                             | 23S      | 28E   |             | 521           | NORTH            | 1040          | EAST       | L         | EDDY        |  |
|  |                               |          | " Bo  | ttom Hole   | e Location If | Different Fron   | n Surface     |            |           |             |  |
| UL or lot no.  | Section                       | Township | Range | Lot Idn     | Feet from the | North/South line | Feet from the | East/V     | Vest line | County      |  |
| P  | 2                             | 23S      | 28E   |             | 100           | SOUTH            | 330           | EAST       | ſ         | EDDY        |  |
| 12 Dedicated Acres 13 Joint or Infill 14 Consolidation Code 15 Order No. |                               |          |       |             |               |                  |               |            |           |             |  |

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.



Distances/areas relative to NAD 83 Combined Scale Factor: 0.99977221 Convergence: 00°07'02.70001"



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District IIV
220. S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

12 Dedicated Acres

318.97

**23S** 

Joint or Infill

28E

14 Consolidation Code

# State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

☐ AMENDED REPORT

**EDDY** 

#### WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1 '                  | t.      | - 1                               | Pool Code |                                | Pool Name     |                  |               |               |           |                        |        |
|----------------------|---------|-----------------------------------|-----------|--------------------------------|---------------|------------------|---------------|---------------|-----------|------------------------|--------|
|                      |         | 15011 CULEBRA BLUFF; BONE SPRING, |           |                                |               |                  |               | ING, S        | OUTH      |                        |        |
| 4 Property           |         |                                   |           | 5 Property                     | Name          |                  |               | 6 Well Number |           |                        |        |
| HADES 2 SB STATE COM |         |                                   |           |                                |               | 3H               |               |               |           |                        |        |
| OGRID,               | No.     |                                   |           |                                | 8 Operator    | Name             |               | 1             |           | <sup>9</sup> Elevation |        |
| 37209                | 98      |                                   |           | MARATHON OIL PERMIAN LLC 3068' |               |                  |               |               |           | 3068'                  |        |
|                      |         |                                   |           |                                | " Surface l   | Location         |               |               |           |                        |        |
| UL or lot no.        | Section | Township                          | Range     | Lot Idn                        | Feet from the | North/South line | Feet from the | East          | West line |                        | County |
| A                    | 2       | 23S                               | 28E       |                                | 521           | NORTH            | 1070          | EAST EDDY     |           |                        | Y      |
|                      |         |                                   | " Bo      | ttom Hol                       | e Location If | Different Fron   | n Surface     |               |           |                        |        |
| UL or lot no.        | Section | Township                          | Range     | Lot Idn                        | Feet from the | North/South line | Feet from the | East          | West line |                        | County |

SOUTH

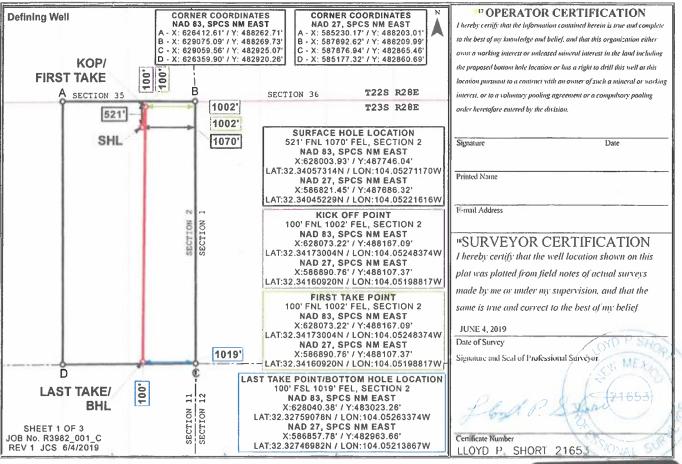
1019

**EAST** 

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.

100

15 Order No.



Distances/areas relative to NAD 83 Combined Scale Factor; 0.99977221 Convergence: 00°07'02.70001"

EXHIBIT 2.B

### Lease Tract Map Hades 2 TBC State Com 1H & Hades 2 SB State Com 3H E/2 of Section 2, T23S-R28E – 320 acres

Tract 8A: VB-0407

Tract 8B: VB-0407

■ Tract 8C: VB-0407

Tract 9A: VB-2460

Tract 9B: VB-2460

| 34        | 3         | 35 |      |      | 36       |
|-----------|-----------|----|------|------|----------|
| T225 R28E | T225 R28E |    |      |      | T225 R28 |
| T235 R28E | T235 R28E |    | (BA) |      | T235 R28 |
|           |           |    |      |      |          |
|           |           |    |      | (9A) |          |
| 3         |           | 2  |      | 0    | 1        |
|           |           |    | 88   |      |          |
|           |           | ı  |      |      |          |
|           |           |    | 98   | 80   |          |
|           |           |    |      |      |          |
| 10        | 1         | 11 |      |      | 12       |





### Summary of Interests Hades 2 TBC State Com 1H & Hades 2 SB State Com 3H E/2 of Section 2, T23S-R28E – 320 acres

| Committed Working Interest:   | 81.25% |
|-------------------------------|--------|
| Marathon Oil Permian LLC      | 81.25% |
|                               |        |
| Uncommitted Working Interest: | 18.75% |
| Nadel & Gussman Capitan, LLC  | 0.75%  |
| MRC Delaware Resources, LLC   | 16.50% |
| MRC Explorers Resources, LLC  | 0.75%  |
| MRC Spiral Resources, LLC     | 0.75%  |





Jeffrey Broussard Landman



Marathon Oil Permian LLC 5555 San Felipe Street Houston, Texas 77056 Telephone: 713-296-3159 jbroussard1@marathonoil.com

March 26, 2019

VIA CERTIFIED MAIL RETURN RECEIPT REQUESTED 7018 0360 0000 7549 5852

MRC Delaware Resources, LLC One Lincoln Center 5400 LBJ Freeway, Suite 1500 Dallas, Texas 75240

Re:

Hades 2 State Com 1H, 2H, 3H, 4H and 5H Well Proposals E/2 of Section 2, Township 23 South, Range 28 East Eddy County, New Mexico

Dear MRC Delaware Resources, LLC:

Marathon Oil Permian LLC ("Marathon") proposes the drilling of the following wells located in Section 2, 23S-28E, Eddy, New Mexico, all to be drilled from one surface pad location.

|                          |                      |                      |                | Target |         |
|--------------------------|----------------------|----------------------|----------------|--------|---------|
| Well Name                | SHL                  | BHL                  | Proration Unit | TVD    | Est. MD |
| Hades 2 TBC State Com 1H | 1050' FEL & 400' FNL | 330' FEL & 100' FSL  | E/2 of Sec. 2  | 8,746' | 14,110' |
| Hades 2 FB State Com 2H  | 1080' FEL & 400' FNL | 990' FEL & 100' FSL  | E/2 of Sec. 2  | 7,432' | 12,772' |
| Hades 2 SB State Com 3H  | 1110' FEL & 400' FNL | 1000' FEL & 100' FSL | E/2 of Sec. 2  | 8,368' | 13,707' |
| Hades 2 FB State Com 4H  | 1140' FEL & 400' FNL | 2310' FEL & 100' FSL | E/2 of Sec. 2  | 7,417' | 12,860' |
| Hades 2 SB State Com 5H  | 1170' FEL & 400' FNL | 2310' FEL & 100' FSL | E/2 of Sec. 2  | 8,343' | 13,770' |

These proposed locations and target depths are subject to change depending on any surface or subsurface concerns encountered. The AFEs represent an estimate of the costs that will be incurred to drill and complete the wells, but those electing to participate in the wells are responsible for their proportionate share of the actual costs incurred.

Marathon proposes drilling the wells under the terms of the 1989 AAPL JOA. Enclosed is a draft of the JOA covering the contract area. The JOA has the following general provisions:

- 100%/300%/300% non-consent penalty
- \$7,000/\$700 drilling and producing rates
- Contract area of E/2 of Section 2, 23S-28E, covering from the top of the Bone Spring Formation to the base of the Bone Spring formation

If your election is to participate in the drilling and completion of the wells, please sign and return a copy of this letter along with the enclosed AFE within thirty (30) days of receipt of this proposal.



If you do not wish to participate, Marathon proposes to acquire your interest via term assignment at the following terms:

•

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This term assignment offer terminates on April 26, 2019 and is subject to due diligence and title verification satisfactory to Marathon.

Should you have any questions regarding this or other matters, please do not hesitate to contact me at the above listed phone number or email.

Sincerely,

Jeffrey Broussard

Marathon Oil Permian LLC

of the Hades 2 SB State Com 5H.

MRC Delaware Resources, LLC elects to participate in the drilling, completing, and equipping of the Hades 2 TBC State Com 1H. MRC Delaware Resources, LLC elects NOT to participate in the drilling, completing, and equipping of the Hades 2 TBC State Com 1H. MRC Delaware Resources, LLC elects to participate in the drilling, completing, and equipping of the Hades 2 FB State Com 2H. MRC Delaware Resources, LLC elects NOT to participate in the drilling, completing, and equipping of the Hades 2 FB State Com 2H. MRC Delaware Resources, LLC elects to participate in the drilling, completing, and equipping of the Hades 2 SB State Com 3H. MRC Delaware Resources, LLC elects NOT to participate in the drilling, completing, and equipping of the Hades 2 SB State Com 3H. MRC Delaware Resources, LLC elects to participate in the drilling, completing, and equipping of the Hades 2 FB State Com 4H. MRC Delaware Resources, LLC elects NOT to participate in the drilling, completing, and equipping of the Hades 2 FB State Com 4H. MRC Delaware Resources, LLC elects to participate in the drilling, completing, and equipping of the Hades 2 SB State Com 5H. MRC Delaware Resources, LLC elects NOT to participate in the drilling, completing, and equipping

| Ву:         | <br> |
|-------------|------|
| Print Name: |      |
| Title:      |      |
| Date:       | <br> |

| MARATHON OIL PERI  | MIAN LLC DA  | TE 5/10/2019       |
|--------------------|--|--------------------|
| AUTHORITY FOR EXP  | ENDITURE DRILLING & LOCATION PREPARED  | BY MATTHEW RUGAARD |
| DETAIL OF ESTIMATE | D WELL COSTS COMPLETION PREPARED   | BY JOSH SHANNON    |
|                    | FACILITIES PREPARED  | 87 0               |
|                    | ARTIFICIAL LIFT PREPARED   | 87 0               |
|                    |  |                    |
| Asset Team         | PERMIAN  |                    |
| Field              | CULEBRA BLUFF; BC FORMATION: 3RD BONE SPRINGS WILDCAT  | EXPLORATION        |
| Lease/Facility     | Hades 2 TBC State Com 1H DEVELOPMENT   | RECOMPLETION       |
| Location           | EDDY COUNTY X EXPLOITATION   | WORKOVER           |
| Prospect           | MALAGA   |                    |
|                    |  |                    |
| Est Total Depth    | 14,110 Est Drilling Days Est Completion Da   | ys <u>5.5</u>      |
| LOCATION COST -    | INTANCIDI F  |                    |
| LOCATION COST -    | MIANGIBLE  |                    |
| GL CODE            | DESCRIPTION  | ESTIMATED COST     |
| 7001270            | Location and Access  | 40,200             |
| 7001250            | Land Broker Fees and Services  | 27,000             |
|                    |  |                    |
|                    | TOTAL LOCATION COST - INTANGIBLE   | 67,200             |
|                    |  |                    |
| DRILLING COST - T  | ANGIBLE  |                    |
|                    |  |                    |
| 2012000            | Conductor Nuc  | 38.000             |
| 7012050<br>7012050 | Conductor Pipe Surface Casing  | 28,000             |
|                    |  |                    |
| 7012050            | Intermediate Casing 1  | 66,000             |
| 7012050<br>7012050 | Intermediate Casing 2  | 244,000            |
|                    | Production Casing  | 10,000             |
| 7012050<br>7012550 | Drig Uner Hanger, Tleback Eq & Csg Accessories   | 50,000             |
| 7012330            | Drilling Welihead Equipment Casing & Tubing Access   | 24,000             |
| 7012270            | Miscellaneous MRO Materials  | 5,000              |
| 7012270            | wich single on a wind was single   | 3,000              |
|                    | TOTAL DRILLING - TANGIBLE  | 467,000            |
|                    | Total Children   |                    |
| DOULING COCT. III  | WANGE P  |                    |
| DRILLING COST - IN | HANGIBLE   |                    |
| 7019200            | Bullion Die 66ab (Danieb   | 26,000             |
| 7019220            | Drilling Rig Mob/Demob Drilling Rig - day work/footage   | 388,800            |
| 7019040            | Directional Drilling Services  | 120,000            |
| 7019020            | Cement and Cementing Service Surface   | 15,000             |
| 7019020            | Cement and Cementing Service intermediate 1  | 25,000             |
| 7019020            | Cement and Cementing Service Intermediate 2  | 25,000             |
| 7019020            | Cement and Cementing Service Production  | 110,000            |
| 7019140            | Mud Fluids & Services  | 58,400             |
| 7012310            | Solids Control equipment   | 26,000             |
| 7012020            | Bits   | 70,000             |
| 7019010            | Casing Crew and Services   | 30,000             |
| 7016350            | Fuel (Rig)   | 44,000             |
| 7019140            | Fuel (Mud)   | 18,000             |
| 7001460            | Water (non potable)  | 25,000             |
| 7012350            | Water (potable)  | 5,000              |
| 7019000            | Well Logging Services  | -                  |
| 7019150            | Mud Logging+geosteering  | 11,000             |
| 7019250            | Stabilizers, Hole Openers, Underreamers (DH rentals)   | 15,000             |
| 7019110            | Casing inspection/cleaning   | 15,000             |
| 7019110            | Drill pipe/collar inspection services  | 10,000             |
| 7016180            | Freight - truck  | 25,000             |
| 7001460            | Water hauling and disposal (includes soil farming)   | 60,000             |
| 7001160            | Contract Services - Disposal/Non-Hazardous Waste   | 80,000             |
| 7001440            | Vacuum Trucks  | 30,000             |
| 7000030            | Contract Labor - general  Contract Labor - Operations  | 3,000              |
| 7001200            | Contract Services - Facilities   | 10,000             |
| 7019300            | Well Services - Well Control Services  | 17,200             |
| 7019350            | Well Services - Well/Wellhead Services   | 10,000             |
| 7018150            | Rental Tools and Equipment (surface rentals)   | 57,600             |
| 7018150            | Rig Equipment and Misc.  | 7,200              |
| 7001110            | Telecommunications Services  | 5,000              |
| 7001120            | Consulting Services  | 67,680             |
| 7001400            | Safety and Environmental   | 23,040             |
| 7018120            | Rental Buildings (trailers)  | 11,520             |
| 7019310            | Coring (sidewalls & analysis)  |                    |
| 7011010            | 7% Contingency & Taxes   | 132,751            |
|                    |  |                    |
|                    | TOTAL DRILLING - INTANGIBLE  | \$1,562,191        |
|                    |  |                    |
|                    | TOTAL DRIVING COST   | \$2,020,101        |
|                    | TOTAL DRILLING COST  | \$2,029,191        |
|                    |  |                    |
| COMPLETION - TAI   | 4GIBLE   |                    |
| 2012700            | Tubles   |                    |
| 7012580<br>7012040 | Tubing Tubing Accessories (nipple, wireline entry)   | <u>:</u>           |
| 7012550            | Wellhead Equip   | 15,000             |
| 7012560            | Packers - Completion Equipment   | 13,000             |
|                    | A CONTRACTOR OF THE PROPERTY O |                    |

TOTAL COMPLETION - TANGIBLE



\$15,000

| MARATHON OIL PERM       |   | DATE |      | 5/10/2019        |  |  |
|-------------------------|---|------|------|------------------|--|--|
| AUTHORITY FOR EXPE      |   |      |      |                  |  |  |
| DETAIL OF ESTIMATED     |   |      |      |                  |  |  |
| Asset Team              | PERMIAN   |      |      |                  |  |  |
| Fleid<br>Lease/Facility | CULEBRA BLUFF; BI FORMATION: 3RD BONE SPRINGS Hades 2 TBC State Com 1H                |      |      |                  |  |  |
| Dease/racinty           | neues 2 loc diate contan  |      |      |                  |  |  |
| COMPLETION - INT.       | ANGIBLE   |      |      |                  |  |  |
| GL CODE                 | DESCRIPTION   |      | ESTI | MATED COST       |  |  |
| 7001270                 | Location and Access (dress location after rig move, set anchors)                      |      |      | 10,000           |  |  |
| 7019220                 | Drilling Rig During Completion  |      |      |                  |  |  |
| 7019140                 | Mud Fluids & Services   |      |      |                  |  |  |
| 7019030<br>7019240      | Colled Tubing Services (3 runs) Snubbing Services                                     |      | _    | 210,000          |  |  |
| 7019270                 | Pulling/Swab Units  |      |      |                  |  |  |
| 7016350                 | Fuel (from drig)  |      |      | -                |  |  |
| 7019010                 | Casing Crew and Services  |      |      | -                |  |  |
| 7019020<br>7019080      | Cement and Cementing Services Well Testing Services (flow hand & equip)               |      | _    | 425,000          |  |  |
| 7019320                 | Fracturing Services   |      |      | 1,784,200        |  |  |
| 7019330                 | Perforating   |      |      | 175,000          |  |  |
| 7019360                 | Wireline Services   |      |      | 15,000           |  |  |
| 7001460                 | Water Hauling & Disposal (frac fluids)  |      |      | 208,000          |  |  |
| 7016180<br>7018150      | Freight - Truck (haul pipe; drig & compl)  BOP Rental & Testing                       |      |      | 15,000           |  |  |
| 7018150                 | Rental Tools and Equipment ( incl drig; lightplant,hydra-walk)                        |      |      | -                |  |  |
| 7018150                 | CT Downhole Rental Equipment (ie. 8R, 8HA)  |      |      | - 1              |  |  |
| 7000030                 | Contract Labor - general  |      |      | 35,000           |  |  |
| 7001110                 | Telecommunications Services   |      | _    | 70,000           |  |  |
| 7001400<br>7001120      | Safety and Environmental Consulting Services  |      |      | 60,000           |  |  |
| 7018150                 | Zipper Manifold   |      | _    | 120,000          |  |  |
| 7019300                 | Frack Stack Rentals   |      | =    | 45,000           |  |  |
| 7016190                 | Freight (Transportation Services)   |      |      | -                |  |  |
| 7018150<br>7018120      | Equipment Rental ( w/o operator, frac tanks, lightplants) Rental Buildings (trailers) |      |      | 75,000<br>15,000 |  |  |
| 7000030                 | Contract Labor - Pumping (pump-down pumps)  |      |      | 30,000           |  |  |
| 7011010                 | 8% Contingency & Taxes  |      |      | 220,700          |  |  |
|                         | TOTAL COMPLETION - INTANGIBLE   |      |      |                  |  |  |
|                         | TOTAL COMPLETION - INTANGIBLE   |      |      | \$3,512,900      |  |  |
| _                       | TOTAL COMPLETION COST   |      |      | 62 527 600       |  |  |
|                         | TOTAL COMPLETION COST   |      |      | \$3,527,900      |  |  |
| SURFACE EQUIPME         | NT - TANGIBLE   | _    |      |                  |  |  |
|                         |   |      |      |                  |  |  |
| 7012350                 | Misc. Piping, Fittings & Valves   |      |      | 16,247           |  |  |
| 7006640<br>7000030      | Company Labor & Burden Contract Labor - General                                       |      |      | 57,416           |  |  |
| 7001110                 | Telecommunication equip (Telemetry)   | er i |      | 37,420           |  |  |
| 7012410                 | Line Pipe B. Accessories  |      |      | 42               |  |  |
| 7012270                 | Miscellaneous Materials (containment system)  |      |      | 31,387           |  |  |
| 7008060<br>7016180      | SCADA  Evalable - Struck  |      |      | <del></del>      |  |  |
| 7001190                 | Freight - truck Contract Engineering  |      |      | 5,998            |  |  |
| 7012290                 | Metering and instrumentation  |      |      | 4,659            |  |  |
| 7012290                 | I&E Materials   |      |      | 105,908          |  |  |
| 7012200                 | Gas Treating  |      |      |                  |  |  |
| 7012200<br>7012010      | Dehydration Compressor  |      |      |                  |  |  |
| 7012350                 | Power   |      |      | +:-              |  |  |
| 7012610                 | Vapor Recovery Unit   |      |      | -                |  |  |
| 7012440                 | Separator & other pressure vessels  |      |      | 306,305          |  |  |
| 7012500                 | Tanks   |      |      | 235,346          |  |  |
| 7012100<br>7012640      | Heater Treater Flare & Accessories  |      |      | 18,634           |  |  |
| 7000010                 | Electrical Labor  |      |      | 9,608            |  |  |
| 7000010                 | Mechanical Labor  |      |      |                  |  |  |
| 7012480<br>7012180      | Rod Pumping unit & Pad  |      |      |                  |  |  |
| 7012350                 | Pumping Unit Engine  Electrical Power (electrical cooperative construction costs)     |      |      | <del></del>      |  |  |
|                         |   |      |      | 4                |  |  |
|                         | TOTAL SURFACE EQUIPMENT - TANGIBLE  | -    |      | \$791,507        |  |  |
|                         | TOTAL CURRENCE FOUNDMENT COCY   |      |      | 701 507          |  |  |
|                         | TOTAL SURFACE EQUIPMENT COST  | \$.  |      | 791,507          |  |  |
| ARTIFICIAL LIFT         |   | _    |      |                  |  |  |
|                         |   |      |      |                  |  |  |
| 7006640                 | Company Labor   |      |      | 45,000           |  |  |
| 7012180<br>7012480      | Gas Lift Equipment Rod Pumping, Sucker Rods & Rod Pump                                |      |      | 15,000<br>6,250  |  |  |
| 7012140                 | Elect Sub Pumps (ESP)   |      |      | 17,500           |  |  |
| 7019350                 | Well Services-Well/Wellhead Services  |      |      | 6,000            |  |  |
| 7012270                 | Materials & Supplies-Tangible   |      |      | 6,000            |  |  |
| 7012550<br>7012390      | Surface Wellhead Equipment Pig Launchers/Receivers & Rel Equip                        | -    |      | 5,000<br>6,250   |  |  |
| 7011010                 | 8% Contingency & Taxes  | -    |      | 3,000            |  |  |
|                         |   |      |      |                  |  |  |
|                         | TOTAL ARTIFICIAL LIFT   |      |      | 110,000          |  |  |
|                         | TOTAL ARTIFICIAL LIFT COST  | \$   |      | 110,000          |  |  |
|                         |   |      |      | 220,000          |  |  |
|                         | CLIMANADY OF ECTIMATED DRILLIAG WELL COSTS  |      | 70   | TALCOST          |  |  |
|                         | SUMMARY OF ESTIMATED DRILLING WELL COSTS  |      | 101  | TAL COST         |  |  |
|                         | TOTAL LOCATION COST   |      | \$   | 67,200           |  |  |
|                         | TOTAL DRILLING COST   | -    | \$   | 2,029,191        |  |  |
|                         | TOTAL COMPLETIONS COST  | -    | \$   | 3,527,900        |  |  |
|                         | TOTAL SURFACE EQUIPMENT COST  | Ī    | \$   | 791,507          |  |  |
|                         | TOTAL ARTIFICIAL LIFT COST  | Ī    | \$   | 110,000          |  |  |
|                         | GRAND TOTAL COST  |      |      | \$6,525,798      |  |  |
|                         |   |      |      |                  |  |  |
|                         | Participant's Approval  |      |      |                  |  |  |
| Nar                     | ne of   |      |      |                  |  |  |
| Comp                    | pany:   |      |      |                  |  |  |
| e:                      | atura:  |      |      |                  |  |  |
| Signa                   | ituro.  |      |      |                  |  |  |

MARATHON OIL PERMIAN LLC DATE 5/10/2019 DRILLING & LOCATION PREPARED BY MATTHEW RUGAARD **AUTHORITY FOR EXPENDITURE** DETAIL OF ESTIMATED WELL COSTS COMPLETION PREPARED BY JOSH SHANNON **FACILITIES PREPARED BY** ARTIFICIAL LIFT PREPARED BY Asset Team Field PERMIAN FORMATION: 2ND BONE SPRINGS WILDCAT EXPLORATION CULEBRA BLUFF; 80 Lease/Facility Hades 2 SB State Com 3H EDDY COUNTY RECOMPLETION WORKOVER DEVELOPMENT X EXPLOITATION Prospect MALAGA Est Drilling Days Est Total Depth 13 707 Est Completion Days \_\_\_ 5.5 LOCATION COST - INTANGIBLE GL CODE DESCRIPTION ESTIMATED COST Location and Access 7001250 Land Broker Fees and Services 27,000 TOTAL LOCATION COST - INTANGIBLE 67,200 DRILLING COST - TANGIBLE 7012050 Conductor Pipe 28,000 7012050 7012050 Surface Casing Intermediate Casing 1 66,000 7012050 Intermediate Casing 2 Production Casing
Drig Liner Hanger, Tieback Eq & Csg Accessories 213,000 10,000 Drilling Wellhead Equipment Casing & Tubing Access Miscellaneous MRO Materials 7012550 50,000 24,000 5,000 7012270 TOTAL DRILLING - TANGIBLE DRILLING COST - INTANGIBLE Drilling Rig Mob/Demob Drilling Rig - day work/footage Directional Drilling Services Cement and Cementing Service 7019220 351,000 105,000 15,000 7019040 Surface 7019020 Cement and Cementing Service Intermediate 1 25,000 Cement and Cementing Service Cement and Cementing Service 7019020 110,000 7019020 Production 7019140 Mud Fluids & Services 57,000 Solids Control equipment 23,000 7012310 7012020 Bits 70,000 Casing Crew and Services
Fuel (Rig)
Fuel (Mud) 7019010 30,000 40,000 18,000 7016350 7019140 7001460 Water (non potable) 25,000 Water (potable)
Well Logging Services 7012350 5,000 7019000 Mud Logging • geosteering Stabilizers, Hole Openers, Underreamers (OH rentals) Casing inspection/cleaning 7019150 9,000 15,000 15,000 7019250 7019110 7019110 Drill pipe/collar inspection services 10,000 25,000 60,000 80,000 7016180 Freight - truck Water hauling and disposal (includes soil farming) 7001460 7001160 Contract Services - Disposal/Non-Hazardous Waste Vacuum Trucks Contract Labor - general 7001440 10,000 30,000 3,000 7000030 **Contract Labor - Operations** 7001200 7019300 Contract Services - Facilities Well Services - Well Control Services 10,000 16,500 7019350 Well Services - Well/Wellhead Services 10,000 Rental Tools and Equipment (surface rentals)
Rig Equipment and Misc. 52,000 6,500 7001110 **Telecommunications Services** 5,000 Consulting Services
Safety and Environmental 61,100 7001400 20,800 Rental Buildings (trailers)
Coring (sidewalls & analysis)
7% Contingency & Taxes

COMPLETION - TANGIBLE 7012580 Tubing Accessories (nipple, wireline entry) 7012040 7012550 Wellhead Equip
Packers - Completion Equipment 15,000 7012560 TOTAL COMPLETION - TANGIBLE \$15,000



7018120

7019310 7011010

TOTAL DRILLING - INTANGIBLE

TOTAL DRILLING COST

10,400

124,971

\$1,474,271

\$1,910,271

| MARATHON OIL PE                       |  | DATE5/10/2019   |
|---------------------------------------|--|-----------------|
| AUTHORITY FOR EX<br>DETAIL OF ESTIMAT |  |                 |
| Asset Team                            | PERMIAN  |                 |
| Teld                                  | CULEBRA BLUFF; BC FORMATION: 2ND BONE SPRINGS  |                 |
| .ease/Facility                        | Hades 2 SB State Com 3H  |                 |
| OMPLETION - II                        | VTANGIBLE  |                 |
| GL CODE                               | DESCRIPTION  | ESTIMATED COST  |
| 7001270                               | Location and Access (dress location after rig move, set anchors)                             | 10,000          |
| 7019220                               | Drilling Rig During Completion   | ·               |
| 7019140<br>7019030                    | Mud Fluids & Services  Colled Tubing Services (3 runs)                                       | 210,000         |
| 7019240                               | Snubbing Services  |                 |
| 7019270                               | Pulling/Swab Units   |                 |
| 7016350<br>7019010                    | Fuel (from drig) Casing Crew and Services  |                 |
| 7019020                               | Cement and Cementing Services  | -               |
| 7019080                               | Well Testing Services (flow hand & equip)  | 425,000         |
| 7019320                               | Fracturing Services  | 1,784,200       |
| 7019330<br>7019360                    | Perforating Wireline Services  | 175,000         |
| 7001460                               | Water Hauling & Disposal (frac fluids)   | 218,000         |
| 7016180                               | Freight - Truck (haul pipe; drig & compl)  | 15,000          |
| 7018150<br>7018150                    | BOP Rental & Testing  Rental Tools and Equipment ( incl drig; lightplant, hydra-walk)        |                 |
| 7018150                               | CT Downhole Rental Equipment (le. Bit, BHA)  |                 |
| 7000030                               | Contract Labor - general   | 35,000          |
| 7001110                               | Telecommunications Services  | 70,000          |
| 7001400<br>7001120                    | Safety and Environmental Consulting Services   | 60,000          |
| 7018150                               | Zipper Manifold  | 120,000         |
| 7019300                               | Frack Stack Rentals  | 45,000          |
| 7016190<br>7018150                    | Freight (Transportation Services)  Equipment Rental ( w/o operator, frac tanks, lightplants) | 75,000          |
| 7018120                               | Rental Buildings (trailers)  | 15,000          |
| 7000030                               | Contract Labor - Pumping (pump-down pumps)   | 30,000          |
| 7011010                               | 8% Contingency & Taxes   | 220,700         |
|                                       | TOTAL COMPLETION - INTANGIBLE  | \$3,522,900     |
|                                       |  |                 |
|                                       | TOTAL COMPLETION COST  | \$3,537,900     |
|                                       |  |                 |
| URFACE EQUIPM                         | MENT - TANGIBLE  |                 |
| 7012350                               | Misc. Piping, Fittings & Valves  | 16,247          |
| 7006640                               | Company Labor & Burden   |                 |
| 7000030                               | Contract Labor - General   | \$7,416         |
| 7001110<br>7012410                    | Telecommunication equip (Telemetry) Line Pipe & Accessories                                  |                 |
| 7012270                               | Miscellaneous Materials (containment system)   | 31,387          |
| 7008060                               | SCADA  | <u>.</u>        |
| 7016180<br>7001190                    | Freight - truck  | 5,998           |
| 7012290                               | Contract Engineering Metering and Instrumentation  | 4,659           |
| 7012290                               | I&E Materials  | 105,908         |
| 7012200                               | Gas Treating   | <u>-</u>        |
| 7012200<br>7012010                    | Dehydration Compressor   |                 |
| 7012350                               | Fower  | -               |
| 7012610                               | Vapor Recovery Unit  | +               |
| 7012440                               | Separator & other pressure vessels   | 306,305         |
| 7012500                               | Tanks Heater Treater   | 235,346         |
| 7012640                               | Flare & Accessories  | 18,634          |
| 7000010                               | Electrical Labor   | 9,608           |
| 7000010                               | Mechanical Labor   | +               |
| 7012480<br>7012180                    | Rod Pumping unit & Pad Pumping Unit Engine   | - 1             |
| 7012350                               | Electrical Power (electrical cooperative construction costs)                                 | - 4             |
|                                       | TOTAL SURFACE EQUIPMENT - TANGIBLE   | \$791,507       |
|                                       |  |                 |
|                                       | TOTAL SURFACE EQUIPMENT COST   | \$ 791,507      |
|                                       |  |                 |
| RTIFICIAL LIFT                        |  |                 |
| 7006640                               | Company Labor  | 45,000          |
| 7012180                               | Gas Lift Equipment   | 15,000          |
| 7012480                               | Rod Pumping, Sucker Rods & Rod Pump  | 6,250           |
| 7012140<br>7019350                    | Elect Sub Pumps (ESP) Well Services-Well/Wellhead Services                                   | 17,500<br>6,000 |
| 7019350                               | Materials & Supplies Tangible  | 6,000           |
| 7012550                               | Surface Wellhead Equipment   | 5,000           |
| 7012390                               | Pig Launchers/Receivers & Rei Equip  | 6,250           |
| 7011010                               | 8% Contingency & Taxes   | 3,000           |
|                                       | TOTAL ARTIFICIAL LIFT  | 110,000         |
|                                       | TOTAL ARTIFICIAL LIFT COST   | \$ 110,000      |
|                                       | TOTAL ARTIFICIAL CITY COST   | 110,000         |
|                                       | CHAMADO OF ESTIMATED DOUBLE MELL COSTS   | TOTAL COST      |
|                                       | SUMMARY OF ESTIMATED DRILLING WELL COSTS   | TOTAL COST      |
|                                       | TOTAL LOCATION COST  | \$ 67,200       |
|                                       | TOTAL DRILLING COST  | \$ 1,910,271    |
|                                       | TOTAL COMPLETIONS COST   | \$ 3,537,900    |
|                                       | TOTAL SURFACE EQUIPMENT COST   | \$ 791,507      |
|                                       | TOTAL ARTIFICIAL LIFT COST   | \$ 110,000      |
|                                       | GRAND TOTAL COST   | \$6,416,878     |
|                                       |  |                 |
|                                       | Participant's Approval   |                 |
|                                       | Name of  |                 |
| Co                                    | ompany;  |                 |
| Sie                                   | gnature:   |                 |

Date:

Title:

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

APPLICATION OF MARATHON OIL PERMIAN LLC FOR COMPUSLORY POOLING, EDDY COUNTY, NEW MEXICO.

CASE NO. 20562 (HADES)

### <u>AFFIDAVIT</u>

| STATE OF NEW MEXICO  | )     |
|----------------------|-------|
|                      | ) ss. |
| COUNTY OF BERNALILLO | )     |

Deana M. Bennett, attorney in fact and authorized representative of Marathon Oil Permian LLC, the Applicant herein, being first duly sworn, upon oath, states that the above-referenced Application was sent under a notice letter and that proof of receipt is attached hereto.

Deana M. Bennett

SUBSCRIBED AND SWORN to before me this 11th day of June, 2019 by Deana M. Bennett.

OFFICIAL SEAL Karlene Schuman NOTARY PUBLIC STATE OF NEW MEXICO

Notary Public

My commission expires

Zina Crum Modrall Sperling 500 4th Street NW Suite 1000 Albuquerque NM 87102

#### **PS Form 3877**

### Type of Mailing: CERTIFIED MAIL 05/23/2019



Firm Mailing Book ID: 167802

| Line        | USPS Article Number         | Name, Street, City, State, Zip   |             | Postage | Service Fee | RR Fee  | Rest.Del.Fee | Reference<br>Contents     |
|-------------|-----------------------------|--|-------------|---------|-------------|---------|--------------|---------------------------|
| 1           | 9314 8699 0430 0059 5146 20 | Devon Energy Production Company LP<br>33W. Sheridan Ave<br>Oklahoma City OK 73102                    |             | \$1.15  | \$3.50      | \$1.60  | \$0.00       | 81363-0124 Hade<br>Notice |
| 2           | 9314 8699 0430 0059 5146 37 | Marathon Oil Permian LLC<br>5555 San Felipe Street<br>Houston TX 77056                               |             | \$1.15  | \$3,50      | \$1.60  | \$0.00       | 81363-0124 Hade<br>Notice |
| 3           | 9314 8699 0430 0059 5146 44 | MRC Delaware Resources LLC<br>One Lincoln Center<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX 75240  |             | \$1.15  | \$3.50      | \$1.60  | \$0.00       | 81363-0124 Hade<br>Notice |
| 4           | 9314 8699 0430 0059 5146 51 | MRC Explorers Resources LLC<br>One Lincoln Center<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX 75240 |             | \$1.15  | \$3.50      | \$1,60  | \$0.00       | 81363-0124 Hade<br>Notice |
| 5           | 9314 8699 0430 0059 5146 68 | MRC Spiral Resources LLC<br>One Lincoln Center<br>5400 LBJ Freeway, Suite 1500<br>Dallas TX 75240    | WAY<br>2019 | \$1.15  | \$3.50      | \$1.60  | \$0.00       | 81363-0124 Hade<br>Notice |
|             |                             |  | Totals:     | \$5.75  | \$17.50     | \$8.00  | \$0.00       |                           |
|             |                             |  |             |         | Grand       | Total:  | \$31.25      |                           |
| st Number o |                             |  | Dated:      |         | Grand       | . Viai. | 301.20       |                           |

5

#### Transaction Report Details - CertifiedPro net Date Created= 5/23/2019 - 5/24/2019 Generated: 6/11/2019 10:22 31 AM

| USPS Article Number    | Date Created        | Reference Number | Name 1                               | Name 2             | Address                      | City     | State | Zip   | Mailing Status | Service Options                             | Mail Delivery Date |
|------------------------|---------------------|------------------|--------------------------------------|--------------------|------------------------------|----------|-------|-------|----------------|---|--------------------|
| 9314869904300059514668 | 2019-05-23 12:29 PM | 81363-0124 Hades | MRC Spiral Resources LLC             | One Lincoln Center | 5400 LBJ Freeway, Suite 1500 | Dallas   | TX    | 75240 | Undelivered    | Return Receipt - Electronic, Certified Mall |                    |
| 9314869904300059514651 | 2019-05-23 12:29 PM | 81363-0124 Hades | MRC Explorers Resources LLC          | One Lincoln Center | 5400 LBJ Freeway, Suite 1500 | Dallas   | TX    | 75240 | Delivered      | Return Receipt - Electronic, Certified Mall | 05-28-2019         |
| 9314869904300059514644 | 2019-05-23 12:29 PM | 81363-0124 Hades | MRC Delaware Resources LLC           | One Lincoln Center | 5400 LBJ Freeway, Suite 1500 | Dallas   | TX    | 75240 | Delivered      | Return Receipt - Electronic, Certifled Mail | 05-28-2019         |
| 9314869904300059514637 | 2019-05-23 12:29 PM | 81363-0124 Hades | Marathon Oil Permian LLC             |                    | 5555 San Felipe Street       | Houston  | TX    | 77056 | Delivered      | Return Receipt - Electronic, Certified Mail | 05-28-2019         |
| 9314869904300059514620 | 2019-05-23 12:29 PM | 81363-0124 Hades | <b>Devon Energy Production Compa</b> | 11                 | 33W. Sherldan Ave            | Oklahoma | OK    | 73102 | Delivered      | Return Receipt - Electronic, Certified Mail | 05-28-2019         |

# CURRENT-ARGUS

#### AFFIDAVIT OF PUBLICATION

Ad No. 0001287165

MODRALL SPERLING ROEHL HARRIS & SISK 500 4TH ST NW STE 1000

ALBUQUERQUE NM 87102

I, a legal clerk of the Carlsbad Current-Argus, a newspaper published daily at the City of Carlsbad, in said county of Eddy, state of New Mexico and of general paid circulation in said county; that the same is a duly qualified newspaper under the laws of the State wherein legal notices and advertisements may be published; that the printed notice attached hereto was published in the regular and entire edition of said newspaper and not in supplement thereof on the date as follows, to wit:

05/30/19

Subscribed and sworn before me this 30th of May 2019.

State of WI, County of Brown

My Commission Expires

Ad#:0001287165 P O : 20562 # of Affidavits :0.00

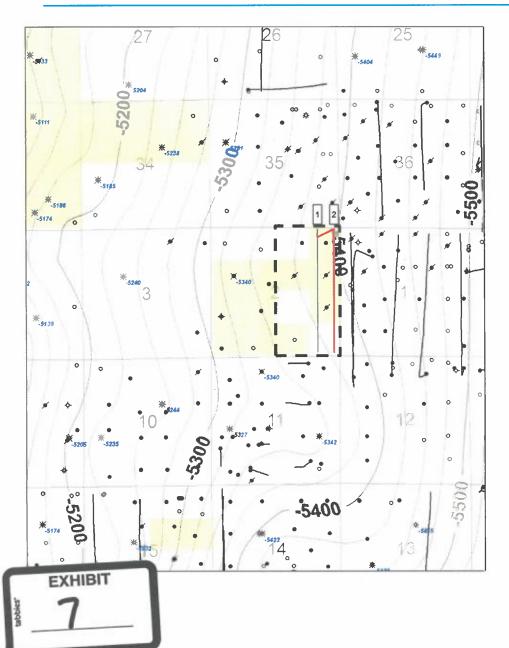
ON ENERGYPRODUCTIONCOMPANY, LP, MRC DELAWARE RESOURCESLLC, MRC EXPLOR ERS RESOURCES, LC, MRC SPIRAL RESOUR CES, LLC, of Marathon Oil Permian LLC's application for approval of compulsory pooling, Eddy County, New Mexico. The State of New Mexico, through its Oil Conservation Division, hereby gives notice that the Division will conduct a public hearing at 8:15 a.m. on June 13, 2019. Applicant seeks an order from the Division pooling all uncommitted mineral interests within a Bone Spring horizontal spacing unit underlying the E/2 of Section 2, Township 23 South, Range 28 East, NMPM, Eddy County, New Mexico. This spacing unit will be dedicated to the Hades 2 TBC State Com 1H, Hades 2 FB State Com 2H, Hades 2 SB State Com 3H, Hades 2 FB State Com 5H wells to be horizontally drilled State Com 5H wells, to be horizontally drilled. The producing area for the wells will be orthodox. Also to be considered will be the cost of drilling and completing the wells, the allocation of these costs as well as the actual operating costs and charges for supervision, designation of Marathon as operator of the wells, and a 200% charge for risk involved in drilling said wells, and allowing a one year period between when the wells are drilled and when the first well is completed. Said area is located approximately 3.5 miles Northeast of Loving, New Mexico. May 30, 2019

CASE NO. 20562: Notice to all affected parties, as well as the heirs and devisees of, DEV-



## **Hades 2 State Com Unit**

Structure Map – Base of 2<sup>nd</sup> Bone Spring Sand (TVDSS)



Map Legend

Hades 2 SB State Com 3H

Hades 2 TBC State Com 1H

SBSG
TBC

MRO - Horizontal Location

MRO Acreage



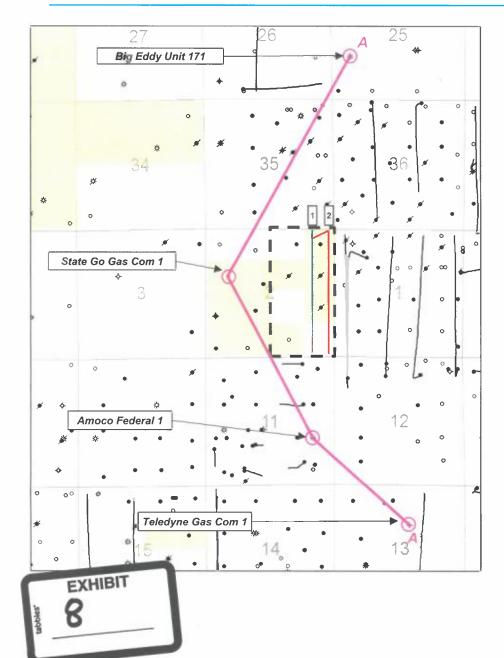
C.I. = 25'

1 mile



# **Hades 2 State Com Unit**

### Reference Map for Cross Section



1 Hades 2 SB State Com 3H

2 Hades 2 TBC State Com 1H

Map Legend

SBSG
TBC

MRO - Horizontal Location

Cross Section line

MRO Acreage

Project Area

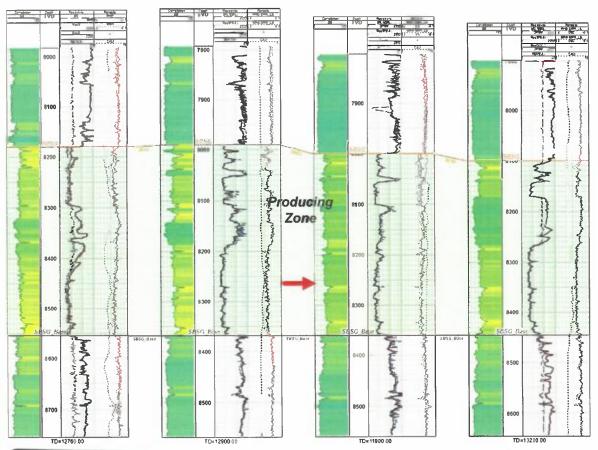
1 mile

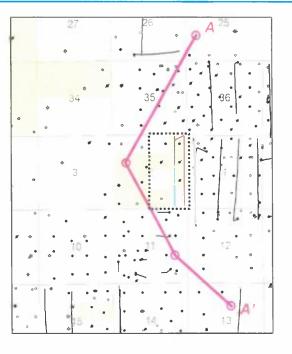


### Hades 2 SB State Com 3H

### Stratigraphic Cross Section (Base 2<sup>nd</sup> Bone Spring Sand Datum)







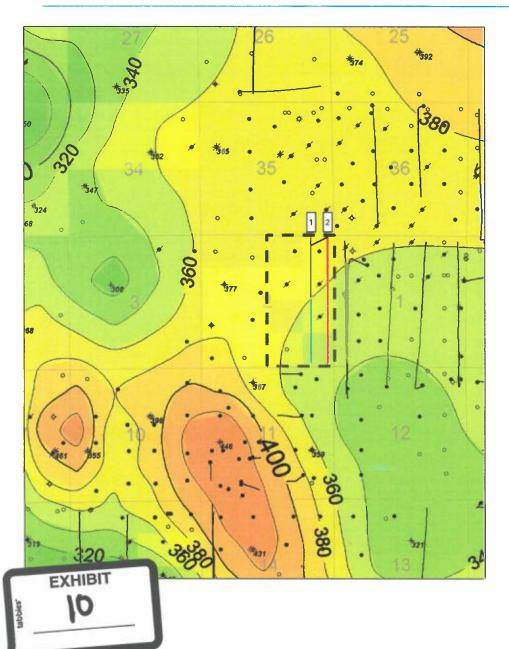
Second Bone Spring Sand thickness consistent across unit





# Hades 2 SB State Com 3H

Gross Interval Isochore – 2<sup>nd</sup> Bone Spring Sand Top to Base



1 Hades 2 SB State Com 3H

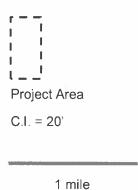
2 Hades 2 TBC State Com 1H

### Map Legend



MRO - Horizontal Location

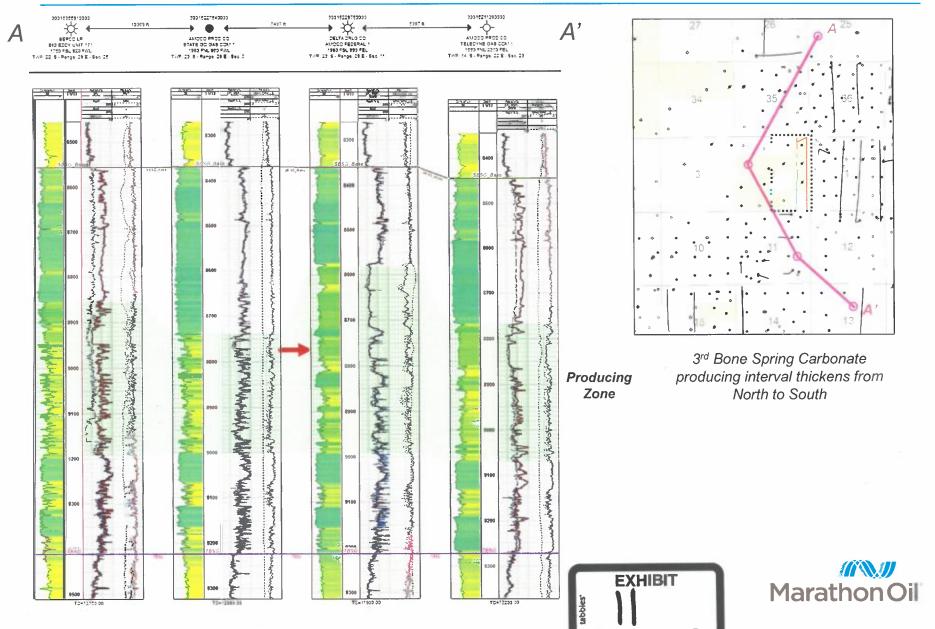
MRO Acreage





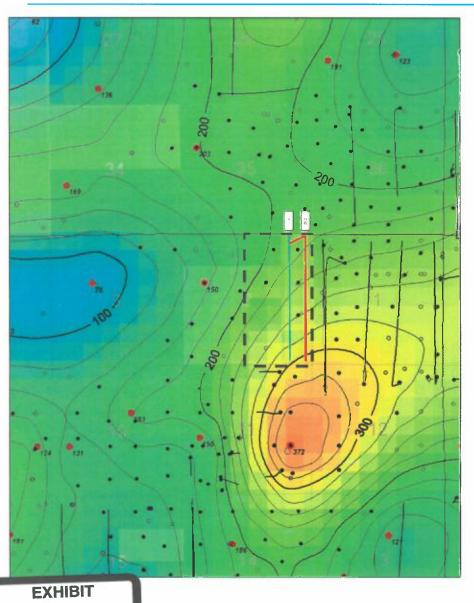
### Hades 2 TBC State Com 1H

### Stratigraphic Cross Section (Base 2<sup>nd</sup> Bone Spring Sand Datum)



# **Hades 2 TBC State Com 1H**

Base 2<sup>nd</sup> Bone Spring Sand to Top 3<sup>rd</sup> Bone Spring Sand, Isochore > 6% Ф



Map Legend

SBSG
TBC

MRO - Horizontal Location

Hades 2 SB State Com 3H

2 Hades 2 TBC State Com 1H

MRO Acreage



Project Area

C.I. = 20'

1 mile

