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 APPLI | CATION CHECKLIST | |
|-------|-------------------|--|---|----------------|
| | | ANDATORY FOR ALL ADMINISTRATIVE APPLICATI WHICH REQUIRE PROCESSING AT THE | | ND REGULATIONS |
| Appli | [DHC-Down | ndard Location] [NSP-Non-Standard Pr nhole Commingling] [CTB-Lease Com ol Commingling] [OLS - Off-Lease Sto | mingling] [PLC-Pool/Lease Commi orage] [OLM-Off-Lease Measureme ressure Maintenance Expansion] njection Pressure Increase] | ngling] nt] |
| [1] | TYPE OF AI [A] | PPLICATION - Check Those Which Ap Location - Spacing Unit - Simultaneou NSL NSP SD | | |
| | Check [B] | Cone Only for [B] or [C] Commingling - Storage - Measuremen DHC CTB PLC | | |
| | [C] | Injection - Disposal - Pressure Increase WFX PMX SWD | | |
| | [D] | Other: Specify | | |
| [2] | NOTIFICAT [A] | ION REQUIRED TO: - Check Those V Working, Royalty or Overriding F | | |
| | [B] | Offset Operators, Leaseholders or | Surface Owner | |
| | [C] | Application is One Which Require | es Published Legal Notice | |
| | [D] | Notification and/or Concurrent Ap U.S. Bureau of Land Management - Commissioner of | oproval by BLM or SLO of Public Lands, State Land Office | |
| | [E] | For all of the above, Proof of Not | ification or Publication is Attached, an | d/or, |
| | [F] | ☐ Waivers are Attached | | |
| [3] | | CURATE AND COMPLETE INFORMATION INDICATED ABOVE. | MATION REQUIRED TO PROCES | SS THE TYPE |
| | val is accurate a | TION: I hereby certify that the information decomplete to the best of my knowledge equired information and notifications are | e. I also understand that no action wi | |
| | Note: | Statement must be completed by an individual | with managerial and/or supervisory capacit | y. |
| | hall Bates | mosates | Engineering Tech | 6/25/2021 |
| Print | or Type Name | Signature | Title Marshall@FAEnergyus.c | Date |

e-mail Address

District I och Drive, Hobbs, NM 88240

District II , Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410

District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

329326

FAE II

Operator Rhodes

Lease

State of New Mexico Energy, Minerals and Natural Resources Department

> Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, New Mexico 87505

APPLICATION TYPE X__Single Well Establish Pre-Approved Pools **EXISTING WELLBORE** _X__ Yes ____No

State

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X

Form C-107A

Revised August 1, 2011

APPLICATION FOR DOWNHOLE COMMINGLING

| Operating, LLC | 11757 Kat | y Fwy. Ste. 1000, Houston, TX 77079 | |
|----------------|-----------|-------------------------------------|--------|
| Federal Unit | 102 | Address <i>E-10-26S-37E</i> | Lea |
| | Well No | Unit Letter-Section-Township-Range | County |

30-025-24537

_Federal ___ Lease Type: API No. Property Code OGRID No. INTERMEDIATE ZONE LOWER ZONE **UPPER ZONE DATA ELEMENT** Leonard Rhodes Pool Name 38760 83810 Pool Code 2,812 - 2,984" TBD - TBDTop and Bottom of Pay Section (Perforated or Open-Hole Interval) Artificial Lift Method of Production Artificial Lift (Flowing or Artificial Lift) **Bottomhole Pressure** (Note: Pressure data will not be required if the botto perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone) Oil Gravity or Gas BTU 35.0 API / 1.415 BTU (Degree API or Gas BTU) 35.0API / 1.415 BTU Producing, Shut-In or New Zone Producing New Zone Date and Oil/Gas/Water Rates of See Attached See Attached Last Production. Date: (Note: For new zones with no production history, Date: Date: applicant shall be required to attach production Rates: estimates and supporting data.) Rates: Rates: Oil Gas Oil Gas Oil Gas Fixed Allocation Percentage (Note: If allocation is based upon something o than current or past production, supporting data or % % 100 93 % 0 % 7 % explanation will be required.)

ADDITIONAL DATA

| Are all working, royalty and overriding royalty interests identical in all commingled zones? If not, have all working, royalty and overriding royalty interest owners been notified by certified mail? | Yes_ Yes_ | _X | No | |
|--|--------------|-------------|------|--|
| Are all produced fluids from all commingled zones compatible with each other? | Yes_ | $_{-}X_{-}$ | _No | |
| Will commingling decrease the value of production? | Yes_ | | No_X | |
| If this well is on, or communitized with, state or federal lands, has either the Commissioner of Public Lands or the United States Bureau of Land Management been notified in writing of this application? | Yes_ | $_{-}X_{-}$ | No | |
| NMOCD Reference Case No. applicable to this well: | | | | |
| Attachmenta | | | | |

C-102 for each zone to be commingled showing its spacing unit and acreage dedication.

326344

Production curve for each zone for at least one year. (If not available, attach explanation.)

For zones with no production history, estimated production rates and supporting data.

Data to support allocation method or formula.

Notification list of working, royalty and overriding royalty interests for uncommon interest cases.

Any additional statements, data or documents required to support commingling.

PRE-APPROVED POOLS

If application is to establish Pre-Approved Pools, the following additional information will be required:

List of other orders approving downhole commingling within the proposed Pre-Approved Pools

List of all operators within the proposed Pre-Approved Pools

Proof that all operators within the proposed Pre-Approved Pools were provided notice of this application.

Bottomhole pressure data.

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

| Thorough detaily made and made and | | , | | |
|--|--------|------------------|---------------------|--|
| SIGNATURE M Bates | TITLE_ | Engineering Tech | DATE6/24/2021 | |
| TYPE OR PRINT NAMEMarshall Bates | | TELEPHONE NO | O. (832) 706 - 0041 | |

E-MAIL ADDRESS____ Marshall@FAEnergyus.com_

June 21, 2021

Mr. Dean McClure New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re:

Rhodes Federal Unit #102: API 30-025-24537

Rhodes Pool: 83810 Leonard Pool: 38760

Dear Mr. McClure:

FAE II Operating LLC, as operator, will be filing applications with the New Mexico Oil Conservation Division for approval of the aforementioned commingling project. After a review of internal records, this letter serves as notice that the operator and interest owners are identical for the pools listed above.

If you have any questions, please feel free to contact the undersigned phone at (832) 220-9188 or by email at steven@faenergyus.com.

Thank you for your attention to this matter.

Sincerely,

FAE II Operating, LLC

Steven Lehrbass

Land

fae I operating

June 22, 2021

VIA ONLINE FILING

Mr. Dean McClure New Mexico Energy, Minerals and Natural Resources Department 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Application of FAE II Operating, LLC for Administrative Approval to Downhole Commingle and Sell Oil and Gas Production from the Rhodes and Leonard Pools for the Rhodes Federal Unit #102 well located in Sec. 10, T-26S, R-37E, Lea County, New Mexico

Dear Mr. McClure:

FAE II Operating LLC, OGRID: 329326, requests administrative approval for downhole commingling of oil and gas production from the Rhodes and Leonard Pools for its Rhodes Federal Unit #102 well located in Unit Letter E, Section 10, T-26S, R-37E, 1980 feet FNL and 660 feet FWL, as shown in the attached C-102's for each zone.

Rhodes Federal Unit #102 is currently open to the Yates-Seven Rivers interval, which translates to the RHODES; YATES-SEVEN RIVERS (GAS) [Pool ID: 83810]. The production curve for this interval is shown in Exhibit A. To develop a forecast for this zone, a decline curve was utilized based on the aforementioned historical production.

The zone that does not have production history in the Rhodes Federal Unit #96 is the Queen, which translates to the LEONARD; QUEEN, SOUTH [Pool ID: 38760]. To develop a forecast for this zone, four (4) surrounding wells with production history from the Queen were used as an offset to prove up hole potential in the Rhodes Federal Unit #102 by taking the historical average of the oil, gas, and water production. The resulting historical average production curve for this interval is shown in Exhibit B. From there, a decline curve was utilized based on the aforementioned historical production.

Overall, the forecast for the proposed downhole commingled production was formed by combining the forecasts for both zones, as shown in the Synthetic Decline Curve column of Exhibit C. This forecast proved that an IP of 4.7 BOPD and 33.0 MCFPD is the expected total, and of that, 4.7 BOPD and 30.7 MCFPD will come from the Queen zone. The Yates-Seven Rivers is projected to yield 0.0 BOPD and 2.3 MCFPD with the additional intervals that will be opened up. This information along with the percentage allocation across the zones is shown in Exhibit D.

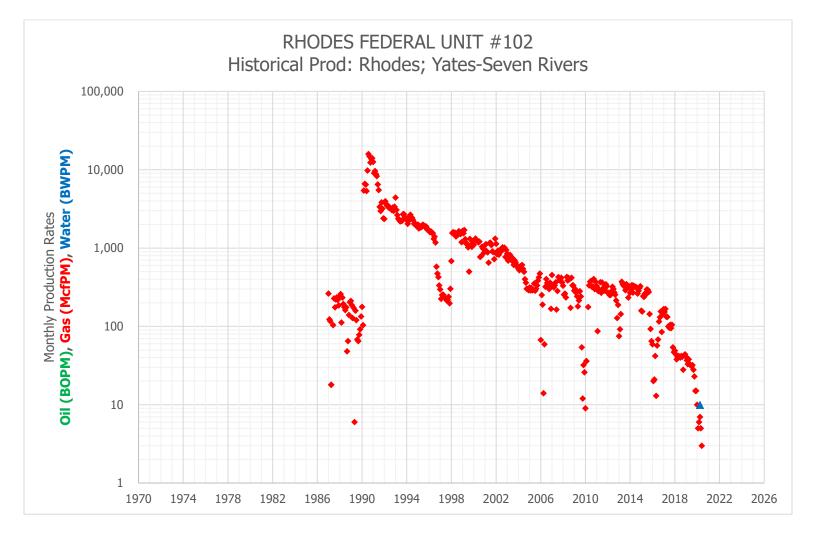
After a review of internal records, the interest owners are identical for the aforementioned wells. As such, notification to the relevant parties of our intent to commingle production will not be necessary.

This proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production. If there are further questions concerning this application, please feel free to contact the undersigned by email at marshall@faenergyus.com or by telephone at (832) 241-8080.

Very truly yours,

FAE II Operating, LLC

Exhibit A - Historical and Forecast Production in the Current Zone



fae I operating

Exhibit B – Historical Average Production in the Proposed Zone

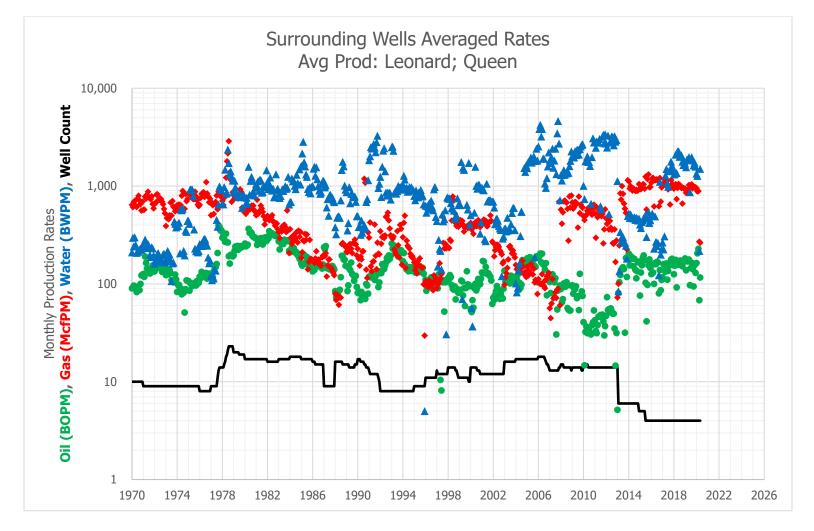


Exhibit C – Historical Production and Decline Curve

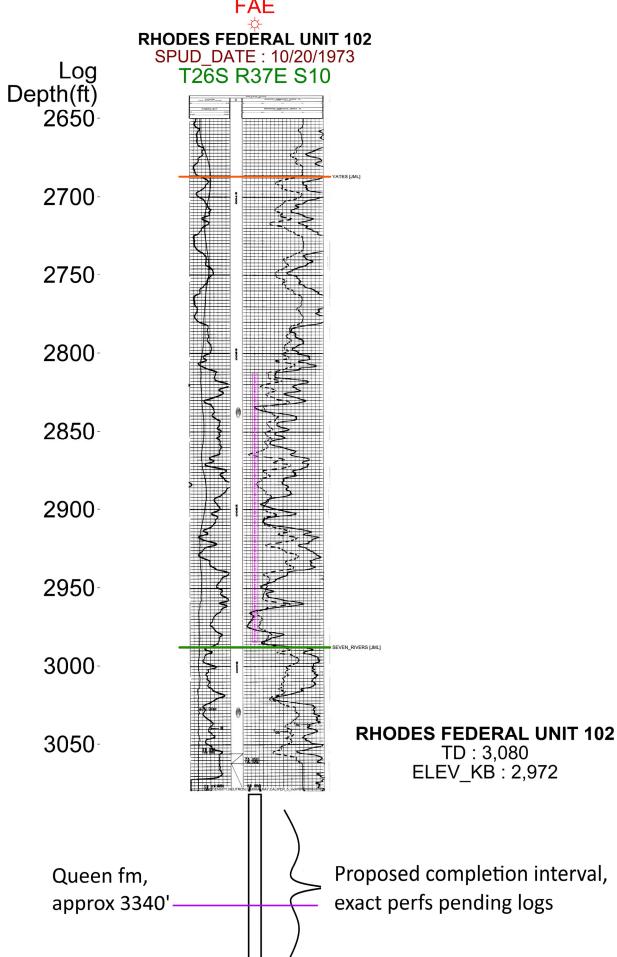
| Avg P | | g Wells Ave -Mattix; Sev | raged Kates ven Rivers-Qu | een | | RHODES FEDERAL UNIT #102 Historical Prod: Rhodes; Yates-Seven Rivers | | | Synthetic Decline Curve | | | |
|------------------------|-------------------|-----------------------------|------------------------------|---------------|------------------------|--|--------------------|---------------------|-------------------------|-------------------|--------------------|--------------------|
| Date | Avg Oil (BOPM) | Avg Gas (McfPM) | Avg Water (BWPM) | Well Count | Date | Avg Oil (BOPM) | Avg Gas (McfPM) | Avg Water (BWPM) | Month | Avg Oil (BOPM) | Avg Gas (McfPM) | Avg Wate (BWPM) |
| 7/1/2015 | 103 | 1,243 | 507 | 4 | 7/1/2015 | (BOFIVI) | 296 | (DVVFIVI) | 1 | 142.9 | 1,004 | 1,101 |
| 8/1/2015 | 41 | 576 | 301 | 4 | 8/1/2015 | | 293 | | 2 | 142.2 | 1,001 | 1,098 |
| 9/1/2015 | 98 | 1,178 | 474 | 4 | 9/1/2015 | | 275 | | 3 | 141.6 | 999 | 1,094 |
| 10/1/2015 | 155 | 1,312 | 543 | 4 | 10/1/2015 | | 144 | | 4 | 140.9 | 996 | 1,090 |
| 11/1/2015 | 178 | 970 | 419 | 4 | 11/1/2015 | | 93 | | 5 | 140.2 | 994 | 1,087 |
| 12/1/2015 | 145 | 977 | 447 | 4 | 12/1/2015 | | 65 | | 6 | 139.5 | 991 | 1,083 |
| 1/1/2016 | 126 | 1,083 | 498 | 4 | 1/1/2016 | | 59 | | 7 | 138.9 | 989 | 1,080 |
| 2/1/2016 | 156 | 1,201 | 521 | 4 | 2/1/2016 | | 20 | | 8 | 138.2 | 986 | 1,076 |
| 3/1/2016 | 131 | 1,208 | 498 | 4 | 3/1/2016 | | 21 | | 9 | 137.6 | 984 | 1,073 |
| 4/1/2016 | 100 | 618 | 229 | 4 | 4/1/2016 | | 42 | | 10 | 136.9 | 981 | 1,069 |
| 5/1/2016 | 163 | 1,143 | 490 | 4 | 5/1/2016 | | 13 | | 11 | 136.2 | 979 | 1,066 |
| 6/1/2016 | 159 | 1,162 | 269 | 4 | 6/1/2016 | | 57 | | 12 | 135.6 | 977 | 1,062 |
| 7/1/2016 | 168 | 1,170 | 243 | 4 | 7/1/2016 | | 68 | | 13 | 134.9 | 974 | 1,059 |
| 8/1/2016 | 166 80 | 1,124 | 262 122 | 4 | 8/1/2016 | | 115 131 | | 14 15 | 134.3 | 972 | 1,055 |
| 9/1/2016 | | 620 | | 4 | 9/1/2016 | | 155 | | 16 | 133.7 133.0 | 969 967 | 1,052 |
| 10/1/2016 11/1/2016 | 138 86 | 1,210 693 | 1,106 199 | 4 | 10/1/2016 11/1/2016 | | 85 | | 17 | 133.0 | 964 | 1,048 1,045 |
| 12/1/2016 | 110 | 968 | 226 | 4 | 12/1/2016 | | 145 | | 18 | 131.7 | 962 | 1,045 |
| 1/1/2017 | 117 | 1,042 | 265 | 4 | 1/1/2017 | | 166 | | 19 | 131.7 | 960 | 1,041 |
| 2/1/2017 | 159 | 1,042 | 203 | 4 | 2/1/2017 | | 153 | | 20 | 130.5 | 957 | 1,035 |
| 3/1/2017 | 140 | 1,163 | 306 | 4 | 3/1/2017 | | 167 | | 21 | 129.9 | 955 | 1,031 |
| 4/1/2017 | 133 | 1,048 | 1,279 | 4 | 4/1/2017 | | 133 | | 22 | 129.2 | 952 | 1,028 |
| 5/1/2017 | 162 | 1,128 | 1,494 | 4 | 5/1/2017 | | 132 | | 23 | 128.6 | 950 | 1,024 |
| 6/1/2017 | 110 | 980 | 1,073 | 4 | 6/1/2017 | | 100 | | 24 | 128.0 | 948 | 1,021 |
| 7/1/2017 | 136 | 923 | 981 | 4 | 7/1/2017 | | 96 | | 25 | 127.4 | 945 | 1,018 |
| 8/1/2017 | 156 | 953 | 1,416 | 4 | 8/1/2017 | | 105 | | 26 | 126.8 | 943 | 1,014 |
| 9/1/2017 | 156 | 646 | 1,432 | 4 | 9/1/2017 | | 95 | | 27 | 126.2 | 941 | 1,011 |
| 10/1/2017 | 177 | 1,151 | 1,773 | 4 | 10/1/2017 | | 105 | | 28 | 125.6 | 938 | 1,008 |
| 11/1/2017 | 180 | 1,044 | 1,615 | 4 | 11/1/2017 | | 54 | | 29 | 125.0 | 936 | 1,004 |
| 12/1/2017 | 155 | 1,040 | 1,516 | 4 | 12/1/2017 | | 47 | | 30 | 124.4 | 934 | 1,001 |
| 1/1/2018 | 125 | 939 | 1,313 | 4 | 1/1/2018 | | 49 | | 31 | 123.8 | 931 | 998 |
| 2/1/2018 | 153 | 989 | 1,332 | 4 | 2/1/2018 | | 44 | | 32 | 123.2 | 929 | 994 |
| 3/1/2018 | 176 | 1,042 | 2,096 | 4 | 3/1/2018 | | 38 | | 33 | 122.6 | 927 | 991 |
| 4/1/2018 | 92 | 736 | 1,358 | 4 | 4/1/2018 | | 41 | | 34 | 122.0 | 924 | 988 |
| 5/1/2018 | 159 | 958 | 2,262 | 4 | 5/1/2018 | | 42 | | 35 | 121.4 | 922 | 985 |
| 6/1/2018 | 156 | 1,050 | 2,262 | 4 | 6/1/2018 | | 41 | | 36 | 120.9 | 920 | 981 |
| 7/1/2018 | 166 | 1,010 | 1,990 | 4 | 7/1/2018 | | 40 | | 37 | 120.3 | 917 | 978 |
| 8/1/2018 | 173 | 1,009 | 2,077 | 4 | 8/1/2018 | | 42 | | 38 | 119.7 | 915 | 975 |
| 9/1/2018 | 170 | 952 | 2,067 | 4 | 9/1/2018 | | 41 | | 39 | 119.1 | 913 | 972 |
| 10/1/2018 | 151 | 661 | 1,773 | 4 | 10/1/2018 | | 28 | | 40 | 118.6 | 911 | 969 |
| 11/1/2018 | 171 | 957 | 1,638 | 4 | 11/1/2018 | | 43 | | 41 | 118.0 | 908 | 965 |
| 12/1/2018 | 168 | 940 | 1,793 | 4 | 12/1/2018 | | 44 | | 42 | 117.4 | 906 | 962 |
| 1/1/2019 | 182 | 938 | 1,696 | 4 | 1/1/2019 | | 41 | | 43 | 116.9 | 904 | 959 |
| 2/1/2019 | 137 | 851 | 1,555 | 4 | 2/1/2019 | | 37 | | | 116.3 | 901 | 956 |
| 3/1/2019 4/1/2019 | 170 170 | 857 871 | 1,867 1,840 | 4 | 3/1/2019 4/1/2019 | | 33 | | 45 46 | 115.8 115.2 | 899 897 | 953 950 |
| 5/1/2019 | 177 | 1,024 | 1,968 | 4 | 5/1/2019 | | 33 | | 47 | 114.7 | 895 | 947 |
| 6/1/2019 | 97 | 961 | 864 | 4 | 6/1/2019 | | 32 | | 48 | 114.7 | 892 | 943 |
| 7/1/2019 | 145 | 1,021 | 1,826 | 4 | 7/1/2019 | | 31 | | 48 | 113.6 | 892 | 943 |
| 8/1/2019 | 164 | 1,021 | 1,826 | 4 | 8/1/2019 | | 32 | | 50 | 113.0 | 888 | 937 |
| 9/1/2019 | 141 | 947 | 1,837 | 4 | 9/1/2019 | | 28 | | 51 | 112.5 | 886 | 934 |
| 10/1/2019 | 94 | 982 | 1,618 | 4 | 10/1/2019 | | 23 | | 52 | 111.9 | 884 | 931 |
| 11/1/2019 | 155 | 966 | 1,732 | 4 | 11/1/2019 | | 15 | | 53 | 111.4 | 881 | 928 |
| 12/1/2019 | 129 | 972 | 1,580 | 4 | 12/1/2019 | | 15 | | 54 | 110.9 | 879 | 925 |
| 1/1/2020 | 163 | 955 | 1,337 | 4 | 1/1/2020 | | 10 | - | 55 | 110.3 | 877 | 922 |
| 2/1/2020 | 205 | 882 | 1,270 | 4 | 2/1/2020 | | 5 | - | 56 | 109.8 | 875 | 919 |
| 3/1/2020 | 228 | 889 | 1 | 4 | 3/1/2020 | | 6 | - | 57 | 109.3 | 873 | 916 |
| 4/1/2020 | 68 | 270 | 217 | 4 | 4/1/2020 | | 7 | 10 | 58 | 108.8 | 870 | 913 |
| 5/1/2020 | 116 | 263 | 1,498 | 4 | 5/1/2020 | | 5 | | 59 | 108.2 | 868 | 910 |
| 6/1/2020 | 81 | 224 | 1,450 | 4 | 6/1/2020 | | 3 | | 60 | 107.7 | 866 | 907 |
| 7/1/2020 | 77 | 525 | 37 | 4 | 7/1/2020 | - | - | - | | | | |
| 8/1/2020 | 149 | 1,011 | 1 | 4 | 8/1/2020 | - | - | - | | | | |
| 9/1/2020 | 155 | 1,145 | 7 | 4 | 9/1/2020 | - | - | - | | | | |
| 10/1/2020 | 32 | 939 | 0 | 4 | 10/1/2020 | - | - | - | | | | |
| 11/1/2020 | 158 | 977 | 2 | 4 | 11/1/2020 | - | - | - | | | | |
| 12/1/2020 | 165 | 923 | 24 | 4 | 12/1/2020 | - | - | - | | | | |

Exhibit D - Decline Curve IP Rates and Zone Allocation Percentage

| Zone (1) | Zone (2) | Oil IP (BOPD) | Gas IP (MCFD) | Water IP (BWPD) |
|----------|--------------------|------------------|------------------|--------------------|
| Rhodes | Yates-Seven Rivers | 0.0 | 2.3 | 0.0 |
| Leonard | Queen | 4.7 | 30.7 | 36.2 |
| | Total | 4.7 | 33.0 | 36.2 |
| Rhodes | Yates-Seven Rivers | 0% | 7% | 0% |
| Leonard | Leonard Queen | | 93% | 100% |
| | Total (%) | 100% | 100% | 100% |

Released to Imaging: 12/8/2021 11:37:25 AM





Deepen well to 3475'

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II 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 IV 1220 S. St. Francis Dr., Santa Fe, NM 87505 Phone: (505) 476-3460 Fax: (505) 476-3462

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 | 7 |
|---------------|-------------|-----------------|---|
| THE DOCT THE | | DEDICALIONAL | |

| ¹ API Number | | 2 P | ool Code | ol Code ³ Pool Name | | | | | | | |
|-------------------------|------------------------------|-------------|--------------------|--------------------------------|---------------|----------------------------------|-----------|-----------------|--------------------------|--|--|
| 30 | -025-245 | 37 | 8 | 33810 | | RHODES; YATES-SEVEN RIVERS (GAS) | | | | | |
| ⁴ Property | Code | | | 5 | Property Name | | | ⁶ We | ⁶ Well Number | | |
| 32634 | 14 | | | RHODE | S FEDERAL | UNIT | | , | #102 | | |
| 7 OGRID | No. | | | 8 | Operator Name | | | 9 E | ⁹ Elevation | | |
| 32932 | 329326 FAE II OPERATING, LLC | | | | | | | 2 | 2961' | | |
| | | | | 10 Sur | face Locatio | n | *** | | | | |
| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County | | |
| E | 10 | 26S | 37E | | 1980 | N | 660 | w | LEA | | |
| | | | " Bottom | Hole Locat | ion If Differ | ent From Sur | rface | | | | |
| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County | | |
| E | 10 | 26S | 37E | | 1980 | N | 660 | l w | LEA | | |
| Dedicated Acres | 13 Joint o | r 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.

| 1980, | | 17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. |
|-------------------------------|--|--|
| SW/4 NW/4 Sec 9 (40 acres) | | Signature Date Marshall Bates Printed Name Marshall@FAEnergyus.com E-mail Address |
| | | 18SURVEYOR CERTIFICATION 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 supervision, and that the same is true and correct to the best of my belief. |
| | | Date of Survey Signature and Seal of Professional Surveyor: Certificate Number |

¹ API Number

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
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 IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

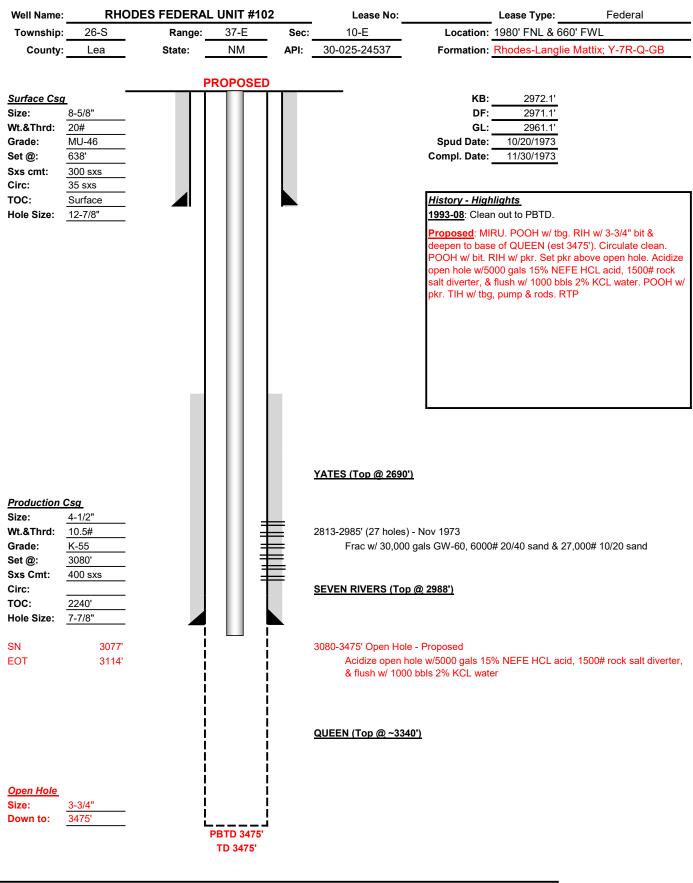
3 Pool Name

² Pool Code

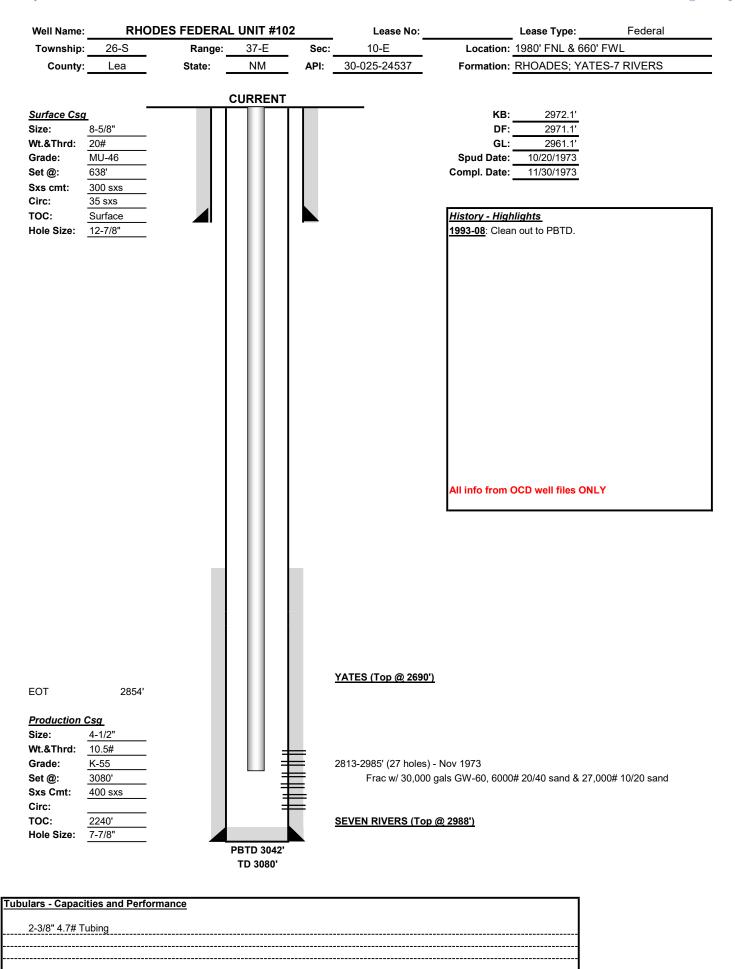
| 4 Property Code | e | | | 5 | Doggarda Maria | | | | | | |
|------------------------|-----------------------|---------------|--------------------|--|----------------|--------------|-----------|----------|----------|--|--|
| 22/211 | | | | ⁵ Property Name ⁶ Well N | | | | | | | |
| 326344 | | | | RHODE | S FEDERAL U | JNIT | | # | #102 | | |
| ⁷ OGRID No. | | | | 8 | Operator Name | | | 9 E | levation | | |
| 329326 | | | | FAE II (| OPERATING, | LLC | | 2 | 961' | | |
| | | | | 10 Sur | face Location | n | | | | | |
| UL - Lot Se | ection | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County | | |
| E | 10 | 26S | 37E | | 1980 | N | 660 | W | LEA | | |
| | | 1-5-6 | " Bottom | Hole Locat | ion If Differe | ent From Sur | rface | | | | |
| UL - Lot Se | ection | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County | | |
| E | 10 | 26S | 37E | | 1980 | N | 660 | W | LEA | | |
| Dedicated Acres 13 | ³ Joint of | r 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.

| 16 | | | 17 OPERATOR CERTIFICATION |
|------------------|--|-----|--|
| | | | I hereby certify that the information contained herein is true and complete to |
| | | | the best of my knowledge and belief, and that this organization either owns a |
| - | | | working interest or unleased mineral interest in the land including the |
| 1980, | | | proposed bottom hole location or has a right to drill this well at this location |
| <u> </u> | | | pursuant to a contract with an owner of such a mineral or working interest, |
| | | | or to a voluntary pooling agreement or a compulsory pooling order |
| | | | heretofore entered by the division. |
| | | | mBates 6/22/2021 |
| | | | Signature Date |
| ((0) | | | Marshall Bates |
| 660' | | | Printed Name |
| | | | M. I. Wara |
| CAMIA NIMIA | | | Marshall@FAEnergyus.com E-mail Address |
| SW/4 NW/4 | | | |
| Sec 9 (40 acres) | | | |
| | | | *SURVEYOR CERTIFICATION |
| | | | 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 supervision, and that the same is true |
| | | | |
| | | - 1 | and correct to the best of my belief. |
| | | | |
| | | | Date of Survey |
| | | | Signature and Seal of Professional Surveyor: |
| | | | |
| | | | |
| | | | |
| | | _ | |
| | | | |
| | | | Certificate Number |
| | | | |



| Tub | ulars - Capacities and Performance |
|-----|--|
| | 2-3/8" 4.7# J-55 EUE 8rd Tubing (~98 jts 2-3/8" tbg, SN, 4' perf sub, MA w/ bull plug) |
| | |
| | |
| | |



From: <u>Vanessa Neal</u>

To: McClure, Dean, EMNRD

Subject: RE: [EXTERNAL] DHC Applications Format & Missing Items?

Date: Wednesday, November 3, 2021 12:16:21 PM

Attachments: <u>image001.png</u>

BLM DHC CE Lamunyon #090 Sundry Submittal 2021-11-03.pdf

Awesome, thank you Dean!

Here are the tracking numbers we have for the submitted DHCs. I'm not sure which ones you were waiting on, so I included all the tracking numbers we had documented.

I've also attached a PDF of the DHC submitted to the BLM for C E Lamunyon #90; a DHC application was submitted earlier this week to the OCD. Is the PDF attached an acceptable substitute for the BLM tracking numbers for future submissions?

| Project | API | SLO/BLM Submittal Tracking Info |
|--------------------------|--------------|---------------------------------|
| State A A/C 2 #062 | 30-025-25542 | 7020 0640 0000 9346 5293 |
| State C TR 11 #003 | 30-025-23103 | 7020 0640 0000 9346 5293 |
| State C TR 11 #005 | 30-025-25517 | 7020 0640 0000 9346 5293 |
| State I Com #002 | 30-025-06133 | 7020 0640 0000 9346 5293 |
| C D Woolworth #008 | 30-025-32862 | 7020 0640 0000 9346 5293 |
| Cagle C #005 | 30-025-34450 | 7021 0350 0001 5380 9936 |
| Cagle C Federal Com #006 | 30-025-37342 | 7021 0350 0001 5380 9936 |
| Myers B #006 | 30-025-31382 | 7021 0350 0001 5380 9936 |
| Rhodes Federal Unit #047 | 30-025-20011 | 7021 0350 0001 5380 9936 |
| Rhodes Federal Unit #096 | 30-025-24536 | 7021 0350 0001 5380 9936 |
| Rhodes Federal Unit #098 | 30-025-37514 | 7021 0350 0001 5380 9936 |
| Rhodes Federal Unit #102 | 30-025-24537 | 7021 0350 0001 5380 9936 |
| Shell A State COM #006 | 30-025-32030 | 7020 0640 0000 9346 3985 |
| State A A/C 1 #096 | 30-025-09250 | 7020 0640 0000 9346 5293 |
| State A A/C 1 #129 | 30-025-34877 | 7020 0640 0000 9346 5293 |
| State A A/C 2 #057 | 30-025-20297 | 7020 0640 0000 9346 5293 |
| Stevens A-35 Com #002 | 30-025-09467 | 7021 0350 0001 5380 9936 |

Thank you,

Vanessa Neal | Sr Reservoir Engineer

forty acres energy

O 832.219.0990 (ext 165)

C 979.255.3476

From: McClure, Dean, EMNRD < Dean. McClure@state.nm.us>

Sent: Tuesday, November 2, 2021 6:41 PM **To:** Vanessa Neal <vanessa@faenergyus.com>

Subject: RE: [EXTERNAL] DHC Applications Format & Missing Items?

Hello Vanessa,

Quite busy, but I suppose I can't complain; hopefully everything in your world is going great.

Based off my conversations with Marshall, I think he had mentioned that there may be some applications in the current batch that require notice to either the BLM or SLO which the evidence of which has not been provided, but I have not had a chance to sit down and go through them all quite yet. Regarding format and future submittals, I have an outdated guidance document regarding DHCs, but I will see if I can update it and help make it more specific to what would be more relevant to FAE. Please note that there are different requirements based upon whether the pools being commingled have been commonly commingled in the area or not. For FAE, this becomes relevant because some of your proposed pools to be commingled are common and some are not. An example of an application that is not is DHC-5150 for the E C Hill A 7.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

From: Vanessa Neal < <u>vanessa@faenergyus.com</u>>

Sent: Tuesday, November 2, 2021 5:25 PM

To: McClure, Dean, EMNRD < <u>Dean.McClure@state.nm.us</u>> **Subject:** [EXTERNAL] DHC Applications Format & Missing Items?

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

Hi Dean,

I hope everything is going great in your world.

I am going to be helping Marshall Bates submit downhole commingle applications in the future and I was wondering if you had a preferred format for submissions? I would also like to make sure you get everything you need for approval upon initial submission, if possible; is there anything that we have repeatedly missed in the past that you have had to ask for?

I know that we are planning a lot of work in 2022 that will require DHC permits, so I am hoping to get those to you as soon as possible. For the DHC applications currently in your que, are you waiting on any missing items from us? If you let me know what you need I will get it to you ASAP.

Looking forward to working with you! Vanessa Neal |Sr Reservoir Engineer

forty acres energy

11757 Katy Freeway, Suite 725 | Houston, TX 77079

O 832.219.0990 (ext 165)

C <u>979.255.3476</u>

E <u>vanessa@faenergyus.com</u>

From: Engineer, OCD, EMNRD

To: Marshall Bates; Vanessa Neal

Cc: McClure, Dean, EMNRD; Kautz, Paul, EMNRD; Hawkins, James, EMNRD; Powell, Brandon, EMNRD;

lisa@rwbyram.com; Glover, James; Paradis, Kyle O; Walls, Christopher

Subject: Approved Administrative Order DHC-5142

Date: Wednesday, December 8, 2021 11:21:39 AM

Attachments: DHC5142 Order.pdf

NMOCD has issued Administrative Order DHC-5142 which authorizes FAE II Operating, LLC (329326) to downhole commingle production from 2 pools in their Rhodes Federal Unit 102 well (30-025-24537).

The administrative order is attached to this email and can also be found online at OCD Imaging.

Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me.

Dean McClure
Petroleum Engineer, Oil Conservation Division
New Mexico Energy, Minerals and Natural Resources Department
(505) 469-8211

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

APPLICATION FOR DOWNHOLE COMMINGLING SUBMITTED BY FAE II OPERATING, LLC

ORDER NO. DHC-5142

ORDER

The Director of the New Mexico Oil Conservation Division ("OCD"), having considered the application and the recommendation of the Engineering Bureau, issues the following Order.

FINDINGS OF FACT

- 1. FAE II Operating, LLC ("Applicant") submitted a complete application ("Application") to downhole commingle the pools described in Exhibit A ("the Pools") within the well bore of the well identified in Exhibit A ("the Well").
- 2. Applicant proposed a method to allocate the oil and gas production from the Well to each of the Pools that is satisfactory to the OCD and protective of correlative rights.
- 3. Applicant has certified that all produced fluids from all the Pools are compatible with each other.
- 4. Applicant has certified that downhole commingling the Pools will not decrease the value of the oil and gas production.
- 5. To the extent that ownership is identical, Applicant submitted a certification by a licensed attorney or qualified petroleum landman that ownership in the Pools is identical as defined by 19.15.12.7(B) NMAC.
- 6. To the extent that ownership is diverse, Applicant identified all owners of interest in the Pools, provided evidence a copy of the Application was given to each person, and those persons either submitted a written waiver or did not file an objection to the Application.
- 7. Applicant provided notice of the Application to the Bureau of Land Management ("BLM") or New Mexico State Land Office ("NMSLO"), as applicable.

CONCLUSIONS OF LAW

- 8. OCD has jurisdiction to issue this Order pursuant to the Oil and Gas Act, NMSA 1978, Sections 70-2-6, 70-2-11, 70-2-12, 70-2-16, 70-2-17, and 19.15.12 NMAC.
- 9. The downhole commingling of the Pools is common, or Applicant has provided evidence that the fluids are compatible and will not damage the Pools in accordance with 19.15.12.11(A)(1) NMAC.
- 10. The bottom perforation of the lower zone is within one hundred fifty percent (150%) of the depth of the top perforation in the upper zone or Applicant has provided evidence that the

Order No. DHC-5142 Page 1 of 3

- proposed commingling of the Pools shall not result in shut-in or flowing well bore pressure in excess of the commingled pool's fracture parting pressure in accordance with 19.15.12.11(A)(3) NMAC.
- 11. Applicant's proposed method of allocation, as modified herein, complies with 19.15.12.11(A)(8) NMAC.
- 12. To the extent that ownership is diverse, Applicant identified all owners of interest in the Pools and provided evidence the application was given to those persons in accordance with 19.15.12.11(C)(1)(b) NMAC.
- 13. By granting the Application with the conditions specified below, this Order prevents waste and protects correlative rights, public health, and the environment.

ORDER

- 1. Applicant is authorized to downhole commingle the Pools described in Exhibit A within the well bore of the well identified in Exhibit A.
- 2. Applicant shall allocate a fixed percentage of the oil and gas production from the Well to each of the Pools as described in Exhibit A.
- 3. If any of the pools being commingled is prorated, or the Well's production has been restricted by an OCD order in any manner, the allocated production from each producing pool in the commingled well bore shall not exceed the top oil or gas allowable rate for a well in that pool or rate restriction applicable to the well.
- 4. Prior to commingling production from the Pools within the Well's well bore, Applicant shall confirm the depth of the top of the Queen Formation with OCD's Engineering Bureau. If the depth confirmed by OCD's Engineering Bureau is different than the depth submitted within the Application as identified in Exhibit A, then no later than sixty (60) days after commingling production, Applicant shall submit Form C-103 to the OCD Engineering Bureau correcting the depth of the top of the Queen Formation.
- 5. If the Well is deepened, then Applicant shall conduct and, no later than forty-five (45) days after the Well is deepened, provide logs to OCD that are sufficient for OCD to determine which pool(s) each new completed interval of the Well will produce from.
- 6. If the downhole commingling of the Pools reduces the value of the oil and gas production to less than if it had remained segregated, no later than sixty (60) days after the decrease in value has occurred Applicant shall submit a new downhole commingling application to OCD to amend this Order to remove the pool that caused the decrease in value. If Applicant fails to submit a new application, this Order shall terminate on the following day, and if OCD denies the application, this Order shall terminate on the date of such action.
- 7. If a completed interval of the Well is altered from what is submitted within the Application as identified in Exhibit A, then no later than sixty (60) days after the alteration, Applicant

Order No. DHC-5142 Page 2 of 3

- shall submit Form C-103 to the OCD Engineering Bureau detailing the alteration and completed interval.
- 8. If OCD determines that Applicant has failed to comply with any provision of this Order, OCD may take any action authorized by the Oil and Gas Act or the New Mexico Administrative Code (NMAC).
- 9. OCD retains jurisdiction of this matter and reserves the right to modify or revoke this Order as it deems necessary.

STATE OF NEW MEXICO OIL CONSERVATION DIVISION

| WILL | DATE: | 12/07/2021 | |
|-------------------------------|-------|------------|--|
| ADRIENNE SANDOVAL DIRECTOR | | | |

Order No. DHC-5142 Page 3 of 3

State of New Mexico Energy, Minerals and Natural Resources Department

Exhibit A

Order: DHC-5142

Operator: FAE II Operating, LLC (329326) Well Name: Rhodes Federal Unit #102

Well API: 30-025-24537

Pool Name: RHODES; YATES-SEVEN RIVERS (GAS)

Pool ID: 83810 Current: X New: **Upper Zone Allocation: Fixed Percent** Oil: 0% Gas: 7% **Interval: Open-Hole Bottom: 3,240**

Pool Name:

Pool ID: Current: New: **Intermediate Zone** Oil: Allocation: Gas:

> Top: Interval: **Bottom:**

Top: 2,812

Bottom of Interval within 150% of Upper Zone's Top of Interval:

Pool Name: LEONARD; QUEEN, SOUTH

Pool ID: 38760 New: X **Current: Lower Zone Allocation: Fixed Percent** Gas: 93% Oil: 100%

> Interval: Open-Hole Top: 3,240 **Bottom: 3,475**

Bottom of Interval within 150% of Upper Zone's Top of Interval: YES

Top of Queen Formation: 3,340

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 33754

CONDITIONS

| Operator: | OGRID: |
|---|---|
| FAE II Operating LLC | 329326 |
| 11757 Katy Freeway, Suite 1000 Houston, TX 77079 | Action Number: 33754 |
| | Action Type: [C-107] Down Hole Commingle (C-107A) |

CONDITIONS

| Created By | | Condition Date |
|------------|--|-------------------|
| dmcclure | Please review the content of the order to ensure you are familiar with the authorities granted and any conditions of approval. If you have any questions regarding this matter, please contact me. | 12/8/2021 |