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



Marshall@FAEnergyus.com

e-mail Address

ADMINISTRATIVE APPLICATION CHECK THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE **Application Acronyms:** [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication] [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling] [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement] [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion] [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase] [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response] [1] **TYPE OF APPLICATION** - Check Those Which Apply for [A] Location - Spacing Unit - Simultaneous Dedication NSL NSP SD Check One Only for [B] or [C] Commingling - Storage - Measurement [B]☑ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM [C]Injection - Disposal - Pressure Increase - Enhanced Oil Recovery ☐ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR [D] Other: Specify **NOTIFICATION REQUIRED TO: -** Check Those Which Apply, or Does Not Apply [2] Working, Royalty or Overriding Royalty Interest Owners [A] [B] Offset Operators, Leaseholders or Surface Owner [C] Application is One Which Requires Published Legal Notice [D] Notification and/or Concurrent Approval by BLM or SLO U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office [E] For all of the above, Proof of Notification or Publication is Attached, and/or, Waivers are Attached [F] SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE [3] OF APPLICATION INDICATED ABOVE. **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is accurate and complete to the best of my knowledge. I also understand that no action will be taken on this application until the required information and notifications are submitted to the Division. Note: Statement must be completed by an individual with managerial and/or supervisory capacity. **Engineering Tech** 6/25/2021 Marshall Bates Date Print or Type Name

<u>District I</u> 1625 N. French Drive, Hobbs, NM 88240

District II 811 S. First St., Artesia, NM 88210 District III

District IV

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

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

APPLICATION FOR DOWNHOLE COMMINGLING

All Lichtion	
X Single	Well
Establish Pre-Approved	Pools
EXISTING WELLE	ORE
X Yes	No

Form C-107A

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Revised August 1, 2011

FAE II Operating, LLC	11757 Katy Fwy. Ste. 10	00, Houston, TX 77079	
Operator Emery King SE	3 J-01	Lea	
Lease 329326 OGRID No. Property Cod	326929 30-0	Section-Township-Range 125-09196 Lease Type:	County X FederalStateFee
DATA ELEMENT	UPPER ZONE	INTERMEDIATE ZONE	LOWER ZONE
	Jalmat		Langlie Mattix
Pool Name	79240		37240
Pool Code Top and Bottom of Pay Section (Perforated or Open-Hole Interval)	3,109 – 3,247'		3,595 – 3,732
Method of Production (Flowing or Artificial Lift)	Artificial Lift		Artificial Lift
Bottomhole Pressure (Note: Pressure data will not be required if the bottom perforation in the lower zone is within 150% of the depth of the top perforation in the upper zone)			
Oil Gravity or Gas BTU (Degree API or Gas BTU)	35.0API / 1.372 BTU		35.0 API / 1.372 BTU
Producing, Shut-In or New Zone	Producing		Shut-In
Date and Oil/Gas/Water Rates of Last Production. (Note: For new zones with no production history, applicant shall be required to attach production	See Attached Date:	Date:	See Attached Date:
estimates and supporting data.)	Rates:	Rates:	Rates:
Fixed Allocation Percentage (Note: If allocation is based upon something other than current or past production, supporting data or explanation will be required.)	Oil Gas 71 %	Oil Gas %	Oil Gas 100 % 29 %
	ADDITIO	NAL DATA	
Are all working, royalty and overriding If not, have all working, royalty and over Are all produced fluids from all commit Will commingling decrease the value of	rerriding royalty interest owners been ingled zones compatible with each	en notified by certified mail?	Yes X No
If this well is on, or communitized with or the United States Bureau of Land M	n, state or federal lands, has either t anagement been notified in writing	of this application?	YesX No
For zones with no production histo Data to support allocation method Notification list of working, royalt	gled showing its spacing unit and a at least one year. (If not available bry, estimated production rates and	creage dedication. , attach explanation.) supporting data. or uncommon interest cases.	
	PRE-APPRO	OVED POOLS	У.
If application is	s to establish Pre-Approved Pools,	the following additional information w	rill 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.

SIGNATURE Mosates	TITLE_	Engineering Tech	DATE6/24/2021	-
TYPE OR PRINT NAME Marshall Bates		TELEPHONE NO.	(832) 706 - 0041	

E-MAIL ADDRESS__ Marshall@FAEnergyus.com

fae I Toperating

June 22, 2021

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

Re:

Emery King SE #003: API 30-025-09196

Jalmat Pool: 79240

Langlie Mattix Pool: 37240

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 loperating

June 23, 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 Jalmat and Langlie Mattix Pools for the Emery King SE #3 well located in Sec. 1, T-23S, R-36E, 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 Jalmat and Langlie Mattix Pools for its Emery King SE #3 well located in Unit Letter J, Section 1, T-23S, R-36E, 2,310 feet FSL and 1,650 feet FEL, as shown in the attached C-102's for each zone.

Emery King SE #3 is currently open to the Yates-Seven Rivers interval, which translates to the JALMAT; TAN-YATES-7 RVRS (GAS) [Pool ID: 79240]. 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 Emery King SE #3 is the Seven Rivers-Queen, which translates to the LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG [Pool ID: 37240]. To develop a forecast for this zone, forty-five (45) surrounding wells with production history from the Seven Rivers-Queen were used as an offset to prove up hole potential 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 2.3 BOPD and 21.3 MCFPD is the expected total, and of that, 2.3 BOPD and 6.3 MCFPD will come from the Seven Rivers-Queen zone. The Yates-Seven Rivers is projected to yield 0.0 BOPD and 15.0 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.

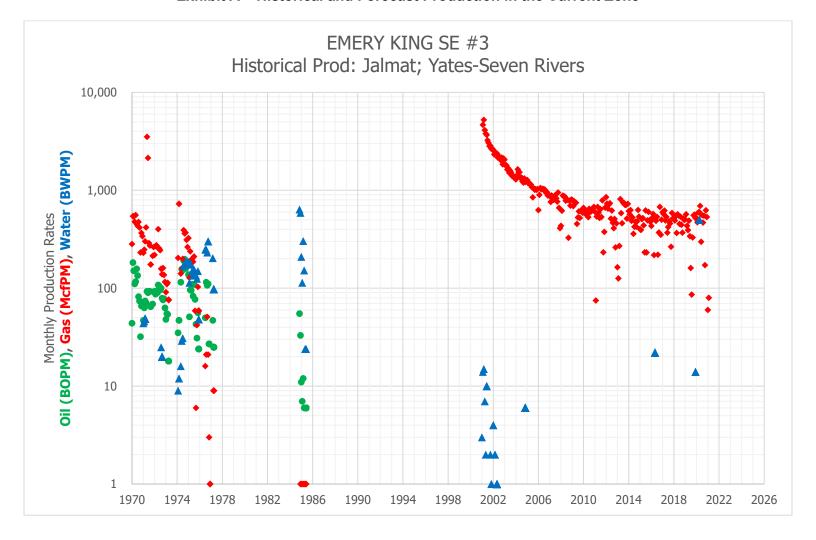
This proposed commingling of production is in the interest of conservation and will not result in reduced royalty or improper measurement of production. If there are further questions concerning this application, please feel free to contact the undersigned by email at marshall@faenergyus.com or by telephone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

Very truly yours,

FAE II Operating, LLC

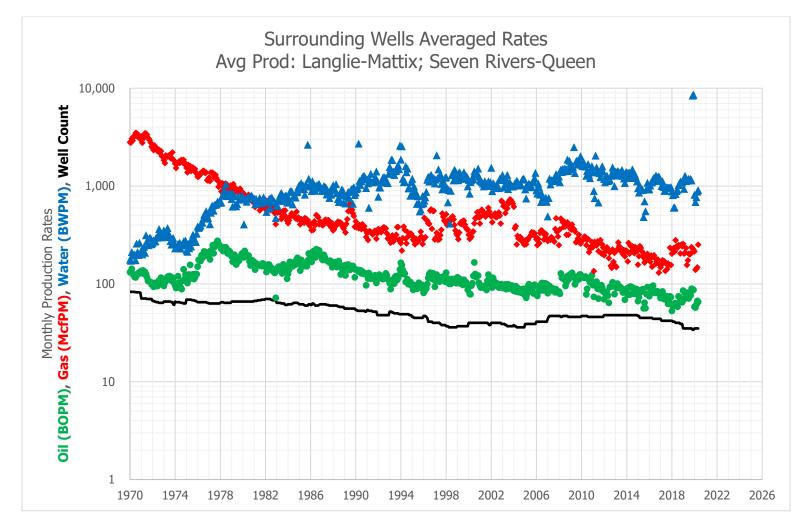
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Exhibit A - Historical and Forecast Production in the Current Zone



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Exhibit B – Historical Average Production in the Proposed Zone



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Exhibit C – Historical Production and Decline Curve

Surrounding Wells Averaged Rates Avg Prod: Langlie-Mattix; Seven Rivers-Queen				EMERY KING SE #3 Historical Prod: Jalmat; 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	56	205	481	45	9/1/2011	(BOFIVI)	790	(BVVFIVI)	1	70.4	647	1,249
8/1/2015	64	165	698	45	10/1/2011		233		2	70.1	645	1,245
9/1/2015	56	176	552	45	11/1/2011		377		3	69.7	644	1,241
10/1/2015	79	192	930	45	12/1/2011		664		4	69.4	642	1,237
11/1/2015	92	203	1,081	45	1/1/2012		851		5	69.1	640	1,232
12/1/2015	77	188	921	45	2/1/2012		731		6	68.7	639	1,228
1/1/2016	75	179	927	45	3/1/2012		650		7	68.4	637	1,224
2/1/2016	81	168	1,012	45	4/1/2012		717		8	68.1	636	1,220
3/1/2016	93	195	1,089	45	5/1/2012		737		9	67.8	634	1,216
4/1/2016	88	149	1,091	45	6/1/2012		515		10	67.4	632	1,212
5/1/2016	96	189	1,179	44	7/1/2012		620		11	67.1	631	1,208
6/1/2016	81	196	1,212	44	8/1/2012		467		12	66.8	629	1,204
7/1/2016	81	184	1,124	44	9/1/2012		410		13	66.5	628	1,200
8/1/2016	82	160	1,281	44	10/1/2012		511		14	66.1	626	1,196
9/1/2016	84	169	1,239	44	11/1/2012		261		15	65.8	625	1,193
10/1/2016	83	178	1,222	44	12/1/2012		460		16	65.5	623	1,189
11/1/2016	79	130	1,256	44	1/1/2013		164		17	65.2	621	1,185
12/1/2016	79	157	1,214	44	2/1/2013		126		18	64.9	620	1,181
1/1/2017	71	147	1,149	44	3/1/2013		270		19	64.6	618	1,177
2/1/2017	78	156	1,002	42	4/1/2013		815		20	64.3	617	1,173
3/1/2017	84	175	1,121	42	5/1/2013		585		21	64.0	615	1,169
4/1/2017	73	170	978	42	6/1/2013		462		22	63.7	614	1,165
5/1/2017	70	170	891	42	7/1/2013		746		23	63.4	612	1,162
6/1/2017	69	136	902	42	8/1/2013		743		24	63.1	611	1,158
7/1/2017	75	160	972	42	9/1/2013		711		25	62.8	609	1,154
8/1/2017	71	141	965	42	10/1/2013		708		26	62.5	608	1,150
9/1/2017	62	162	963	42	11/1/2013		515		27	62.2	606	1,146
10/1/2017	64	157	961	42	12/1/2013		726		28	61.9	605	1,143
11/1/2017	75	234	956	42	1/1/2014		615		29	61.6	603	1,139
12/1/2017	73	156	974	42	2/1/2014		567		30	61.3	602	1,135
1/1/2018	53	203	882	42	3/1/2014		628		31	61.0	600	1,131
2/1/2018	59	223	806	41	4/1/2014		488		32	60.7	599	1,128
3/1/2018	61	232	599	41	5/1/2014		528		33	60.4	597	1,124
4/1/2018	63	213	605	41	6/1/2014		360		34	60.1	596	1,120
5/1/2018	63	279	829	40	7/1/2014		425		35	59.8	594	1,117
6/1/2018	61	242	890	40	8/1/2014		477		36	59.5	593	1,113
7/1/2018	58	234	918	40	9/1/2014		425		37	59.2	591	1,109
8/1/2018	75	249	1,023	40	10/1/2014		482		38	59.0	590	1,106
9/1/2018	74	246	1,034	40	11/1/2014		630		39	58.7	588	1,102
10/1/2018	69	204	1,114	39	12/1/2014		538		40	58.4	587	1,098
11/1/2018	67	252	1,086	39	1/1/2015		401		41	58.1	585	1,095
12/1/2018	65	242	1,095	39	2/1/2015		394		42	57.8	584	1,091
1/1/2019	85	256	1,144	35	3/1/2015		508		43	57.6	582	1,088
2/1/2019	70	204	935	35	4/1/2015		521		44	57.3	581	1,084
3/1/2019	81	209	1,272	35	5/1/2015		440		45	57.0	579	1,080
4/1/2019	78	233	1,124	35	6/1/2015		233		46	56.7	578	1,077
5/1/2019	81	156	1,157	35	7/1/2015		624		47	56.5	576	1,073
6/1/2019	74	174	1,136	35	8/1/2015		232		48	56.2	575	1,070
7/1/2019	71	202	1,186	35	9/1/2015		494		49	55.9	574	1,066
8/1/2019	76	201	1,148	35	10/1/2015		603		50	55.7	572	1,063
9/1/2019	76	203	1,180	35	11/1/2015		494		51	55.4	571	1,059
10/1/2019	89	237	1,144	35	12/1/2015		478		52	55.1	569	1,056
11/1/2019	86	230	8,390	34	1/1/2016		432	-	53	54.9	568	1,052
12/1/2019	87	223	8,563	34	2/1/2016		525	-	54	54.6	566	1,049
1/1/2020	58	215	814	35	3/1/2016		574	-	55	54.4	565	1,045
2/1/2020	57	139	687	35	4/1/2016		218	-	56	54.1	564	1,042
3/1/2020	61	142	768	35	5/1/2016		514	22	57	53.8	562	1,039
4/1/2020	67	147	876	35	6/1/2016		489	-	58	53.6	561	1,035
5/1/2020	65	251	909	35	7/1/2016		536	-	59	53.3	559	1,032
6/1/2020	66	211	828	35	8/1/2016		220	-	60	53.1	558	1,028
7/1/2020	54	226	788	35	9/1/2016		371	-	- 30	55.1	330	1,020
8/1/2020	52	215	869	35	10/1/2016		677	-				
9/1/2020	64	213	870	34	11/1/2016		352	-				
10/1/2020	70	191	934	34	12/1/2016		501	-				
11/1/2020	75	242	1,051	34	1/1/2016		597					
			1 1 1 1	3/	1/1/201/		34/					

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Exhibit D – Decline Curve IP Rates and Zone Allocation Percentage

Zone (1)	Zone (2)	Oil IP (BOPD)	Gas IP (MCFD)	Water IP (BWPD)
Jalmat	Yates-Seven Rivers	0.0	15.0	0.0
Langlie Mattix	Seven Rivers-Queen	2.3	6.3	41.1
	Total	2.3	21.3	41.1
Jalmat	Yates-Seven Rivers	0%	71%	0%
Langlie Mattix	Seven Rivers-Queen	100%	29%	100%
	Total (%)	100%	100%	100%

Top Perf Btm Perf

3109

3595

3638

3663

3704

3716

3247

3603

3654

3693

3713

3732

Type

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INACTIVE

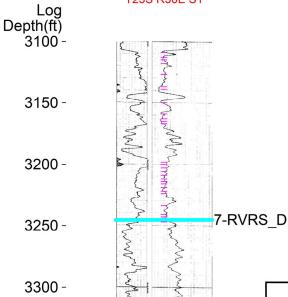
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INACTIVE

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3600 -	
3650 -	QUEEN
3700 -	
3750 -	

3800 - EMERY KING SE 3 ELEV_KB : 3,416 TD : 3,758

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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

		V	VELL LOCAT	ION AND	ACREAGE	DEDICATI	ON PLAT		
¹ API Number ² Pool				ool Code	ode ³ Pool Name				
30-	025-091	96	7:	9240		JALMAT;	TAN-YATES-7 R	RVRS (GAS)	9
⁴ Property C	Code			5	Property Name			⁶ We	ll Number
32692	9			EMI	ERY KING SE			#	#003
⁷ OGRID	No.			. 8	Operator Name	-		9 E	levation
32932	6			FAE II (FAE II OPERATING, LLC				
				10 Sur	face Location	n			
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	1	23S	36E		2310	S	1650	E	LEA
			" Bottom	Hole Locat	ion If Differe	ent From Sur	face		
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	1	23S	36E		2310	S	1650	E	LEA
12 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.

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
	1 - 2			working interest or unleased mineral interest in the land including the
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			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
n n				heretofore entered by the division.
	-			m Bates 6/22/2021
		- :		Signature Date
				Marshall Bates
	(9)			Printed Name
				M. T. HORAE
				Marshall@FAEnergyus.com E-mail Address
			1(50)	*SURVEYOR CERTIFICATION
		∩	1650'	I hereby certify that the well location shown on this plat
1. 11.		Ĭ		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.
				and correct to the best of my better.
		NW/4 SE/4		
	7	Sec 1 (40 acres)		Date of Survey
]	Signature and Seal of Professional Surveyor:
		2310'		
		23		
				Certificate Number
			*	Continuate Number

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

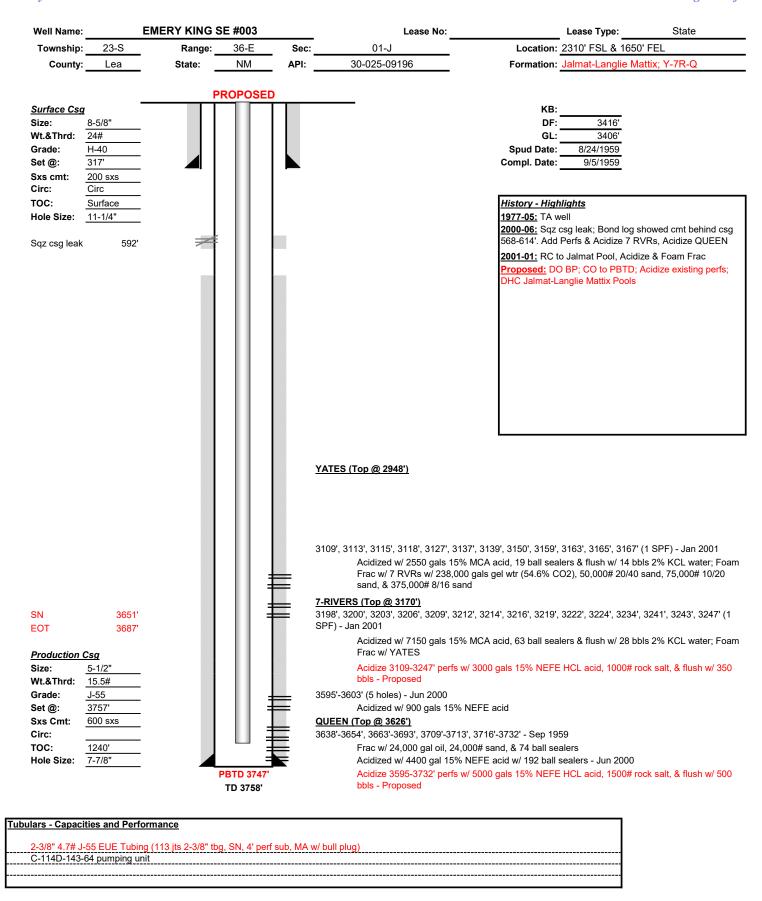
Form C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

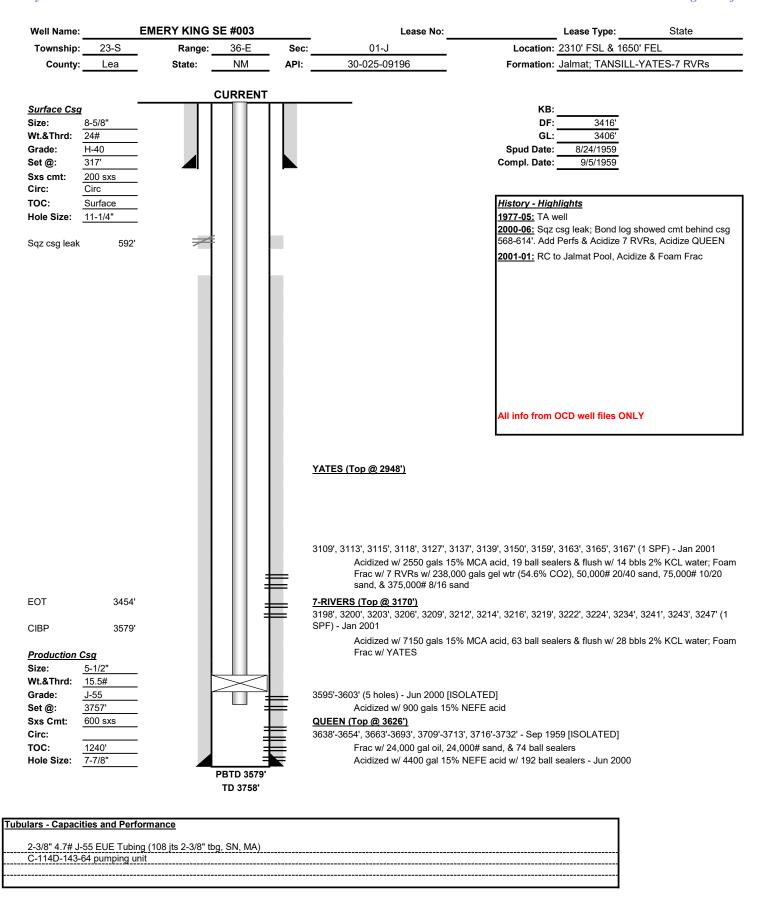
☐ AMENDED REPORT

		V	VELL LOCAT	ION AND	ACREAGE	DEDICATI	ON PLAT		
1 /	API Numbe	r	² Po	ol Code			³ Pool Name		
30-	025-091	96	3	7240		LANGLIE MA	ATTIX; 7 RVRS-	Q-GRAYBURG	
⁴ Property C	Code			5	Property Name			⁶ We	ll Number
326929	9			EMI	ERY KING SE			#	#003
⁷ OGRID !	No.			8	Operator Name			9 E	levation
32932	6			FAE II C	PERATING,	LLC			
				10 Sur	face Location	n			
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
J	1	238	36E		2310	S	1650	E	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
J	1	23S	36E		2310	S	1650	E	LEA
12 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.

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
			proposed bottom hole location or has a right to drill this well at this location
		2	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.
			2022 Jan 6/22/2021
			Signature Date
			Signature
			Marshall Bates
			Printed Name
			Marshall@FAEnergyus.com
			E-mail Address
			and the second control of the second control
			18SURVEYOR CERTIFICATION
		1650'	I hereby certify that the well location shown on this plat
	I		
			was plotted from field notes of actual surveys made by
		1	me or under my supervision, and that the same is true
			and correct to the best of my belief.
	NW//4 CE//4		
	NW/4 SE/4		
	Sec 1 (40 acres)		Date of Survey
			Signature and Seal of Professional Surveyor:
	2310,		
	23		
	- 1		
			Certificate Number





From: Engineer, OCD, EMNRD

To: Vanessa Neal; Marshall Bates

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

lisa@rwbyram.com

Subject:Approved Administrative Order DHC-5136Date:Wednesday, December 22, 2021 5:30:43 PM

Attachments: DHC5136 Order.pdf

NMOCD has issued Administrative Order DHC-5136 which authorizes FAE II Operating, LLC (329326) to downhole commingle production from 2 pools in their Emery King SE #3 well (30-025-09196).

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

From: <u>Vanessa Neal</u>

To: <u>McClure, Dean, EMNRD; Marshall Bates</u>

Subject: [EXTERNAL] RE: downhole commingling application DHC-5136

Date: Tuesday, December 21, 2021 12:16:28 PM

Attachments: image001.png

WBD Emery King SE #003 CURRENT-PROPOSED 2021-12.pdf

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

Mr. McClure,

Please find the attached current and proposed wellbore diagrams for the downhole commingling application DHC-5136 which involves the Emery King SE #3 (30-025-09196) operated by FAE II Operating, LLC (329326).

Thank you,

Vanessa Neal | Sr Reservoir Engineer

forty acres energy

O 832.219.0990 (ext 165)

C <u>979.255.3476</u>

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

Sent: Wednesday, November 24, 2021 4:51 PM

To: Marshall Bates <marshall@faenergyus.com>; Vanessa Neal <vanessa@faenergyus.com>

Subject: downhole commingling application DHC-5136

Mr. Bates, Ms. Neal,

I am reviewing downhole commingling application DHC-5136 which involves the Emery King SE #3 (30-025-09196) operated by FAE II Operating, LLC (329326).

Please provide current and proposed well bore diagrams for this well.

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-5136

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-5136 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-5136 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.

DATE: 12/22/2021

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

Woul	
ADRIENNE SANDOVAL	
DIRECTOR	

Order No. DHC-5136 Page 3 of 3

Intermediate Zone

Bottom: 3,247

Bottom:

State of New Mexico Energy, Minerals and Natural Resources Department

Exhibit A

Order: DHC-5136

Operator: FAE II Operating, LLC (329326)

Well Name: Emery King SE #3 Well API: 30-025-09196

Pool Name: JALMAT; TAN-YATES-7 RVRS (GAS)

Pool ID: 79240 Current: X New: **Upper Zone Allocation: Fixed Percent** Oil: 0% Gas: 71%

Interval: Perforations

Pool Name: Pool ID: Current: New:

Oil: Allocation: Gas: Interval: Top:

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

Pool Name: LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG

Pool ID: 37240 **Current:** New: X **Lower Zone Allocation: Fixed Percent** Gas: 29% Oil: 100%

> **Interval: Perforations** Top: 3,595 **Bottom: 3,732**

Top: 3,109

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

Top of Queen Formation: 3,626

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 33739

CONDITIONS

Operator:	OGRID:
FAE II Operating LLC	329326
11757 Katy Freeway, Suite 1000	Action Number:
Houston, TX 77079	33739
	Action Type:
	[C-107] Down Hole Commingle (C-107A)

CONDITIONS

С	reated By	Condition	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.	12/22/2021