

**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

Form C-101  
Revised July 18, 2013

## Energy Minerals and Natural Resources

## Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

## APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

<sup>1</sup> Operator Name and Address FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079		<sup>2</sup> OGRID Number 329326
		<sup>3</sup> API Number 30-025-28512
<sup>4</sup> Property Code <b>331162</b>	<sup>5</sup> Property Name STATE A A/C 1	<sup>6</sup> Well No. #117

<sup>7</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	03	23S	36E		1395	S	1345	W	LEA

<sup>8</sup> Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	03	23S	36E		1395	S	1345	W	LEA

<sup>9</sup> Pool Information

Pool Name LANGLIE MATTIX; 7 RVRS-Q-GRAYBURG	Pool Code 37240
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## Additional Well Information

<sup>11</sup> Work Type E	<sup>12</sup> Well Type I	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type S	<sup>15</sup> Ground Level Elevation 3472'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 3830'	<sup>18</sup> Formation 7 RVRS/QUEEN	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date 11/1/2022
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits<sup>21</sup> Proposed Casing and Cement Program

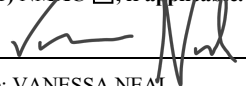
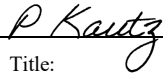
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	12.250"	8.625"	24#	435'	275 sxs	Surface
Production	7.875"	5.500"	14#	3830'	1300 sxs	Surface

## Casing/Cement Program: Additional Comments

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<sup>22</sup> Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3,000#	3,000#	Unknown

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input type="checkbox"/> , if applicable. Signature: 		OIL CONSERVATION DIVISION	
Printed name: VANESSA NEAL		Approved By: 	
Title: SR RESERVOIR ENGINEER		Title:	
E-mail Address: <a href="mailto:vanessa@faenergyus.com">vanessa@faenergyus.com</a>		Approved Date: <b>10/28/2022</b> Expiration Date: <b>10/28/2024</b>	
Date: 17 OCT 2022	Phone: 832-219-0990	Conditions of Approval Attached	

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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

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-28512	<sup>2</sup> Pool Code 37240	<sup>3</sup> Pool Name LANGLIE MATTIX; 7 RVRs-QUEEN-GRAYBURG
<sup>4</sup> Property Code <b>331162</b>	<sup>5</sup> Property Name STATE A A/C 1	<sup>6</sup> Well Number #117
<sup>7</sup> OGRID No. 329326	<sup>8</sup> Operator Name FAE II OPERATING, LLC	<sup>9</sup> Elevation 3472'

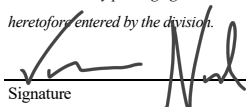
<sup>10</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	03	23S	36E		1395	S	1345	W	LEA

<sup>11</sup> Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
K	03	23S	36E		1395	S	1345	W	LEA
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill Y	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No. <b>R-21956</b>						

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.

<sup>16</sup>				<b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>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.</i>  Signature 10/17/2022 Date VANESSA NEAL Printed Name vanessa@faenergyus.com E-mail Address
				<b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>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.</i> Date of Survey Signature and Seal of Professional Surveyor: Certificate Number

1345'

NE/4 SW/4  
Sec 03 (40 acres)

1395'

<div style="display: flex; align-items: center;"> <div style="font-size: 2em; margin-right: 10px;">faeII</div> <div> <b>WELLBORE DIAGRAM</b>  <b>State A A/C 1 #117</b> </div> </div>		Date: 10/17/2022 OGRID# API# 30-025-28512				
County	Lea	State	NM	Field		
Surf Location:	SEC B03 T23S R36E, 1930 FNL, 660 FWL			GL Elev:	3468'	
Wellhead				TVD:	PBTD:	3550 TD: 3830
Original Spud Date:	3/17/1984		Completed Pool:			

Set Depth	Csg Details	Hole Size
Surface		
435'	8 5/8" 24#	12.25 inch
	275 sx, circ to surface	

PROPOSED

PERFORATIONS:
3640-3820': Seven Rivers/Queen

Prod	Csg Details	Hole Size
3830'	5.5" 14#	7.88 inch
	1300 sx, circ to surface	

PBTD = 3550

Surface Casing	
Hole Size:	12 1/4"
Casing Size:	8 5/8"
Depth Set:	435'
Top of Cement:	surface
Cement with:	275 sx
Method Determined:	circulated

Production Casing	
Hole Size:	7 7/8"
Casing Size:	5 1/2"
Depth Set:	3830'
Top of Cement:	surface
Cement with:	1300 sx
Method Determined:	circulated

Proposed Injection Interval	
Seven Rivers/Queen Inj. Zone	
3,640'	to 3820'
Zone will be perforated	

Tubing	
Tubing Size:	2 3/8"
Lining Material:	IPC
Type of Packer:	AS1X
Packer Depth Set:	3610'



MERIT ENERGY COMPANY

**Wellbore Diagram**

Lease & Well No. **State A A/C 1 # 117**  
 Field Name **Jalmat**  
 Location **1930' FNL 660' FWL; Unit K, Sec. 03, T23S, R36E**

Status **TA'd**  
 County & State **Lea County, NM**  
 API No. **30-025-28512**  
 Pool Name **Jalmat: Tansill Yates Seven Rivers**

**Well Information**

Spud: **3/17/1984** Ground Elevation: **3,468'** D.F. Elevation:  
 Completed: **4/03/84** KB Elevation: **3,830'** Total Depth: **3,830'**

**Pipe Data**

Surface						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
12-1/4"	435'	8-5/8"	24.0#		275 sx	CTS
Production						
Hole size	Depth	Size (OD)	Weight	Grade	Sx. Cmt	Comments
7-7/8"	3,830'	5-1/2"	14.0#		1,300 sx	CTS

**Downhole Tubulars (Top to Bttm):****Well History**

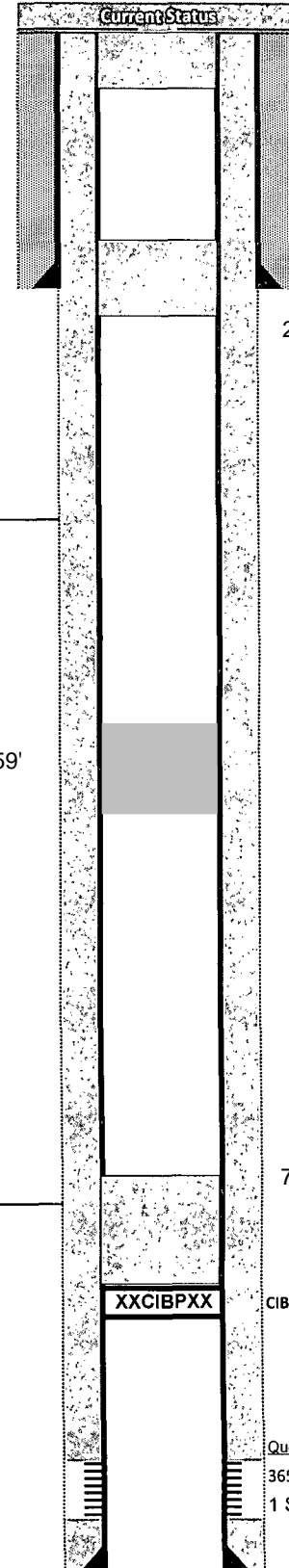
**4/3/1984** Perf 3772-96. 1 SPF, 25 holes. Acdz w/ 2500 gals 15%. Perf 3706-14, 3727-33, and 3748-58. 1 SPF, 27 holes Acdz w/ 2500 gals 15%. Perf 3652-60 and 3670-98. 1 SPF, 38 holes. Acdz w/ 3500 gals 15%.  
**4/10/1984** RIH w/ packer and turn to injection.  
**11/1/1987** Set CIBP @ 3550'. TA well.  
**3/20/2007** AFE in well file to recompleete Yates/7 Rivers. But Workover reports in 3/20/2008 show casing passing pressure test with CIBP at 3550'. If this is the case then the AFE work was never done.

25 sx @ 1300' to 1059'

TA expiration expires 12/16/2013

**POTENTIAL** Injection well for Queen waterflood?**Procedures**

1  
2  
3  
4  
5  
6  
7  
8  
9  
10



15 sx @ 63' to surf

25 sx @ 506' to 260'

**OCD Tops (MD)**

Tansill	2,986'
Yates	3,141'
7 Rivers	3,335'
Queen	3,747'
San Andres	
Glorieta	
Bone Spring	
Bone SS	
Abo	
Wolfcamp	
Strawn	
Atoka	

70 sx @ 3550' to 2876'

CIBP @ 3550'

**Queen**  
 3652-3796 (see history for detail  
 1 SPF, 90 holes total)

PBTD	3550
Total Depth	3,830

Prepared by  
 Brett Keener  
 Ops Engineer

State A Ac 1 - 117 WBD (PA).xls  
 WBD - P&A  
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Updated: 02/28/2011  
 Printed: 3/26/2015

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

CONDITIONS

Action 151460

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 151460
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	OPERATOR IS TO CONDUCT MIT AND BHT PRIOR TO INJECTION	10/28/2022