

**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 30-025-25825
<sup>4</sup> Property Code 329831	<sup>5</sup> Property Name HARRISON	<sup>6</sup> Well No. #002

<sup>7</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	25	24S	36E		660	S	1980	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
N	25	24S	36E		660	S	1980	W	LEA

<sup>9</sup> Pool Information

Pool Name	Pool Code
JALMAT; TANSILL-YATES-7 RVRs (GAS) // LANGLIE MATTIX; 7 RVRs-Q-GRAYBURG	79340 // 37240

## Additional Well Information

<sup>11</sup> Work Type A	<sup>12</sup> Well Type G	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type P	<sup>15</sup> Ground Level Elevation 3281'
<sup>16</sup> Multiple YES	<sup>17</sup> Proposed Depth 3620'	<sup>18</sup> Formation YATES-7 RVRs-QUEEN	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date 4/12/2023
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

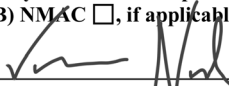
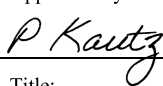
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	13.750"	8.625"	23#	1165'	550 sxs	Surface
Production	7.625"	4.500"	9.5#	3620'	300 sxs	2700'

## 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: 02/27/2023 Expiration Date: 02/27/2025	
Date: 30 JAN 2023	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 30-025-25825	<sup>2</sup> Pool Code 79240	<sup>3</sup> Pool Name JALMAT; TANSILL-YATES-7 RVRs (GAS)
<sup>4</sup> Property Code 329831	<sup>5</sup> Property Name HARRISON	<sup>6</sup> Well Number #002
<sup>7</sup> OGRID No. 329326	<sup>8</sup> Operator Name FAE II OPERATING, LLC	<sup>9</sup> Elevation 3281'

<sup>10</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	25	24S	36E		660	S	1980	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

<sup>12</sup> Dedicated Acres 160	<sup>13</sup> Joint or Infill N	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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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 _____ Date 01/30/2023 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 _____

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Revised August 1, 2011  
Submit one copy to appropriate  
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☐ AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-25825	<sup>2</sup> Pool Code 37240	<sup>3</sup> Pool Name LANGLIE MATTIX; 7 RVRs-QUEEN-GRAYBURG
<sup>4</sup> Property Code 329831	<sup>5</sup> Property Name HARRISON	<sup>6</sup> Well Number #002
<sup>7</sup> OGRID No. 329326	<sup>8</sup> Operator Name FAE II OPERATING, LLC	<sup>9</sup> Elevation 3281'

<sup>10</sup> Surface Location

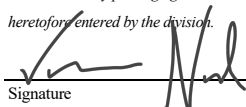
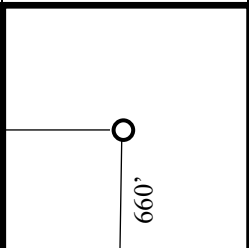
UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	25	24S	36E		660	S	1980	W	LEA

<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

<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill Y	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

<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>  01/30/2023 Signature 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
		SE/4 SW/4 Sec 25 (40 acres)		

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

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

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### Section 1 – Plan Description

Effective May 25, 2021

**I. Operator:** FAE II Operating, LLC **OGRID:** 329326 **Date:** 01/30/2023

**II. Type:** ☐ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☒ Other.

If Other, please describe: DO BPs, Add Perfs & Acidize Langlie Mattix pool in Harrison #002, DHC w/ Jalmat pool

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
HARRISON #002	30-025-25825	N-25-24S-36E	660' FSL & 1980' FWL	2	3	85

**IV. Central Delivery Point Name:** HARRISON BATTERY [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
HARRISON #002	30-025-25825	4/12/2023	4/12/2023	4/12/2023	4/21/2023	4/22/2023

**VI. Separation Equipment:** ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

**VII. Operational Practices:** ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

**VIII. Best Management Practices:** ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

**IX. Anticipated Natural Gas Production:**

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

**X. Natural Gas Gathering System (NGGS):**

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

**XI. Map.** ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

**XII. Line Capacity.** The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

**XIII. Line Pressure.** Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

**XIV. Confidentiality:** ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

### **Section 3 - Certifications**

**Effective May 25, 2021**

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☒ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system.

***If Operator checks this box, Operator will select one of the following:***

**Well Shut-In.** ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

**Venting and Flaring Plan.** ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

### **Section 4 - Notices**

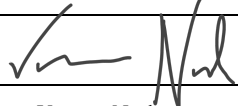
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Vanessa Neal
Title: Sr. Reservoir Engineer
E-mail Address: vanessa@faenergyus.com
Date: 30 JAN 2023
Phone: 832-219-0990

**OIL CONSERVATION DIVISION**  
**(Only applicable when submitted as a standalone form)**

Approved By:
Title:
Approval Date:
Conditions of Approval:

## **FAE II Operating, LLC (“FAE”) Natural Gas Management Plan**

### **VI. Separation Equipment**

- Separation equipment is sized to allow for retention time and velocity to adequately separate oil, gas, and water at anticipated peak rates.
- Valves and meters are designed to service without flow interruption or venting of gas.
- Gas from treater and wellhead will be tied into the sales line.

### **VII. Operational Practices**

#### **19.15.27.8 (A)**

FAE’s field operations are designed with the goal of minimizing venting of natural gas. Wellhead and existing production equipment are tied into the gas sales line.

#### **19.15.27.8 (B) Venting and Flaring during drilling operations**

- Venting will only occur if there is an equipment malfunction and/or to avoid risk of an immediate and substantial adverse impact on safety, public health, or the environment.
- Daily vented volumes during drilling operations will be estimated on the daily report.
- All equipment will be available to process wellhead production upon completion of the well.

#### **19.15.27.8 (C) Venting and Flaring during completions or recompletions operations.**

- During all phases of flowback, wells will flow through a sand separator, or other appropriate flowback separation equipment, and the well stream will be directed to a central tank battery (CTB) through properly sized flowlines.
- The CTB will have properly sized separation equipment for maximum anticipated flowrates.
- All gas from wellhead and treater will be routed to a sales outlet. Fluids will be routed to tanks; vented gas volumes from oil tanks will be estimated based on annual GOR since expected production from well is <60 MCFPD.

#### **19.15.27.8 (D) Venting and Flaring during production operations.**

- During production, the well stream will be routed to the CTB where multiple stages of separation will separate gas from liquids. All gas from wellhead and treater will be routed to a sales outlet. Fluids will be routed to tanks; vented gas volumes from oil tanks will be estimated based on annual GOR since expected production from well is <60 MCFPD.
- AVO inspections will be conducted on the well and facility as required (weekly or monthly) based on actual daily production from the well or facility. Records of inspections will be kept for no less than 5 years. Any active leaks or releases will be reported as required and repaired in a timely manner.
- Gas sales volumes are recorded and monitored via EFMS.

#### **19.15.27.8 (E) Performance Standards**

- Production equipment will be designed to handle maximum anticipated rates and pressure.
- AVO inspections will be conducted on the well and facility as required (weekly or monthly) based on actual daily production from the well or facility. Records of inspections will be kept for no less than 5 years. Any active leaks or releases will be reported as required and repaired in a timely manner.
- Gas/H<sub>2</sub>S detectors will be installed throughout the facilities and wellheads to detect leaks and enable timely repairs.



**19.15.27.8 (F) Measurement or estimation of vented and flared natural gas**

- All gas from wellhead and treater will be routed to a sales outlet.
- When metering is not practical due to low pressure/low rate (<60 MCFPD), the vented volume will be estimated based on annual GOR.

**VIII. Best Management Practices**

- FAE will use best management practices to vent as minimally as possible during well intervention operations and downhole well maintenance.
- All gas from wellhead and treater will be routed to a sales outlet. Fluids will be routed to tanks; vented gas volumes from oil tanks will be estimated based on annual GOR since expected production from well is <60 MCFPD. All venting events will be recorded and all start-up, shutdown, maintenance logs will be kept for control equipment
- All equipment will be maintained to provide highest run-time possible.
- AVO inspections will be conducted on the well and facility as required (weekly or monthly) based on actual daily production from the well or facility. Records of inspections will be kept for no less than 5 years. Any active leaks or releases will be reported as required and repaired in a timely manner.
- Gas sales volumes are recorded and monitored via EFMS.
- All procedures are drafted to keep venting to the absolute minimum.

Well Name: Harrison #002

Location: 660' FSL & 1980' FWL

County: Lea

Lease Number: 329831

Sec: 25

State: NM

Township: 24-S

API: 30-025-25825

Lease Type: Fee

Range: 36-E

Formation: Jalmat

Surface Csg

Size: 8-5/8"

Wt.&Thrd: 23#

Grade:

Set @: 1165'

Sxs cmt: 550 sxs

Circ: 20 sxs

TOC: Surface

Hole Size: 13-3/4"

KB:

DF:

GL: 3281.1'

Spud Date: 2/1/1978

Compl. Date: 3/15/1978

History - Highlights

1982-12: Change pump  
1988-06: Change pump  
1994-04: HIT  
1997-10: Tagged fill @ 2986'  
1998-12: HIT; Tagged Fill @ 2986'  
2000-06: Clean out to 2995'. Hard bottom

SN 3550'

EOT 3586'

Production Csg

Size: 4-1/2"

Wt.&Thrd: 9.5#

Grade: J-55 ST&C 8rd

Set @: 3620'

Sxs Cmt: 300 sxs

Circ:

TOC:

Hole Size: 7-5/8"

YATES (Top @ 2887')

2895', 2909', 2923', 2927', 2929', 2933', 2935', 2938', 2959', 2961', 2963', 2976', 2989', 3002', 3004', 3020', 3027', 3076', 3079', 3089', 3091', & 3094' (19 holes) - Jun 1979  
Acidize w/ 1500 gals; Foam Frac w/ 3950 gals 3% KCL water, 30,000 gals gel CO2 water, 50,000# 20/40 sand & 60,000# 10/20 sand

SEVEN RIVERS (Top @ 3110')

3158-3161', 3234-3244', 3334-3338', 3364-3370', 3390-3397', 3412-3417' (2 SPF) - Jul 1979  
Acidize w/ 5000 gals 15% HCL acid, 1500# rock salt, & flush w/ 1000 bbls 2% K

QUEEN (Top @ 3500')

3502-3505', 3564-3565', 3568', 3570', 3575', 3577-3578' (11 shots) - Mar 1978  
Acidize w/ 1750 gals acid  
Acidize w/ 2500 gals 15% HCL acid, 750# rock salt, & flush w/ 500 bbls 2% KCL wtr - Jun 2021

PBTD 3615'

TD 3620'

Tubulars - Capacities and Performance

bbl/ft	cf/ft	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID(in)	Drift (in)
2-7/8" Tubing (97 jts 2-7/8" tbg, SN, perf sub, MA w/ bull plug) @ 3586'						

Well Name: Harrison #002

Location: 660' FSL & 1980' FWL

County: Lea

Lease Number: 329831

Sec: 25

State: NM

Township: 24-S

API: 30-025-25825

Lease Type: Fee

Range: 36-E

Formation: Jalmat

Surface Csg

Size: 8-5/8"

Wt.&Thrd: 23#

Grade:

Set @: 1165'

Sxs cmt: 550 sxs

Circ: 20 sxs

TOC: Surface

Hole Size: 13-3/4"

KB:

DF:

GL: 3281.1'

Spud Date: 2/1/1978

Compl. Date: 3/15/1978

History - Highlights

1982-12: Change pump

1988-06: Change pump

1994-04: HIT

1997-10: Tagged fill @ 2986'

1998-12: HIT; Tagged Fill @ 2986'

2000-06: Clean out to 2995'. Hard bottom

EOT ~2950'

Top of Fill 2995'

CIBP 3490'

Production Csg

Size: 4-1/2"

Wt.&Thrd: 9.5#

Grade: J-55 ST&C 8rd

Set @: 3620'

Sxs Cmt: 300 sxs

Circ:

TOC:

Hole Size: 7-5/8"

YATES (Top @ 2887')

2895', 2909', 2923', 2927', 2929', 2933', 2935', 2938', 2959', 2961', 2963', 2976', 2989', 3002', 3004', 3020', 3027', 3076', 3079', 3089', 3091', & 3094' (19 holes) - Jun 1979

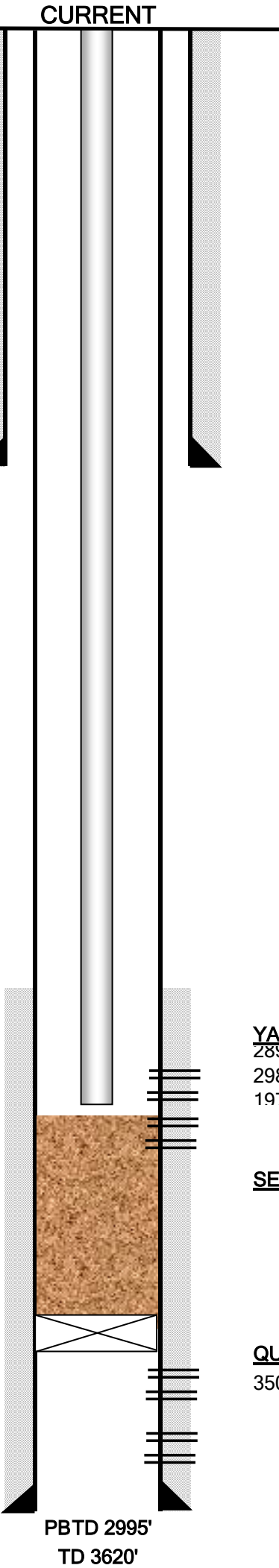
Acidize w/ 1500 gals; Foam Frac w/ 3950 gals 3% KCL water, 30,000 gals gel CO2 water, 50,000# 20/40 sand & 60,000# 10/20 sand

SEVEN RIVERS (Top @ 3110')

QUEEN (Top @ 3500') [ISOLATED]

3502-3505', 3564-3565', 3568', 3570', 3575', 3577-3578' (11 shots) - Mar 1978

Acidize w/ 1750 gals acid



Tubulars - Capacities and Performance							
	bbl/ft	cf/ft	Tensile (lbs)	Burst (psi)	Collapse (psi)	ID(in)	Drift (in)
2-7/8" Tubing (97 jts 2-7/8" tbg) @ ~2950'							

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

CONDITIONS  
  
Action 180503

CONDITIONS

Operator: FAE II Operating LLC 11757 Katy Freeway, Suite 725 Houston, TX 77079	OGRID: 329326
	Action Number: 180503
	Action Type: [C-101] Drilling Non-Federal/Indian (APD)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	2/27/2023