

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

Form C-101  
Revised July 18, 2013

☐ AMENDED REPORT

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

|  |   |   |
|--|---|---|
| <sup>1</sup> Operator Name and Address<br>Opal Operating Company LLC<br>4811 Gaillardia Parkway, Suite 100<br>Oklahoma City OK 73142<br>(405) 849-5606 |   | <sup>2</sup> OGRID Number<br>330887     |
|  |   | <sup>4</sup> API Number<br>30-025-36940 |
| <sup>4</sup> Property Code<br>331544   | <sup>3</sup> Property Name<br>Boots BOO State Com | <sup>6</sup> Well No.<br>1              |

<sup>7</sup> Surface Location

| UL - Lot | Section | Township | Range | Lot Idn | Feet from | N/S Line | Feet From | E/W Line | County |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| E        | 9       | 11 S     | 35 E  |         | 1830      | N        | 660       | 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 |
|----------|---------|----------|-------|---------|-----------|----------|-----------|----------|--------|
| E        | 9       | 11 S     | 35 E  |         | 1830      | N        | 660       | W        | Lea    |

<sup>9</sup> Pool Information

| Pool Name                       | Pool Code |
|---------------------------------|-----------|
| WC-025 G-01 S113509E;SAN ANDRES | 98381     |

|   |                                       |   |  |   |
|---|---------------------------------------|---|--|---|
| <sup>11</sup> Work Type<br>A            | <sup>12</sup> Well Type<br>O          | <sup>13</sup> Cable/Rotary<br>R                                 | <sup>14</sup> Lease Type<br>S                | <sup>15</sup> Ground Level Elevation<br>4127'                 |
| <sup>16</sup> Multiple<br>N             | <sup>17</sup> Proposed Depth<br>5200' | <sup>18</sup> Formation<br>San Andres                           | <sup>19</sup> Contractor<br>To be determined | <sup>20</sup> Spud Date<br>June 1, 2023                       |
| Depth to Ground water<br>35' in L 05000 |                                       | Distance from nearest fresh water well<br>0.74 mi NW of L 05000 |  | Distance to nearest surface water<br>≈3900' NE of stock ponds |

☒ A closed-loop system will be used instead 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      | 17.5"     | 13.375"     | 48# ??           | GL - 432'     | 440             | GL (circ.)    |
| Intermediate | 12.25"    | 9.625"      | 36# & 40# ??     | GL - 4208'    | 1460            | GL (circ.)    |
| Production   | 8.75"     | 5.5#        | 17# L-80 ??      | GL - 12959'   | 2910            | 1446' (CBL)   |

Casing/Cement Program: Additional Comments

|  |
|--|
| GL - 5200': fresh-water spud mud. Will set CIBPs at 12000' & 5200' & top each w/ 20' cmt. Perf San Andres 4910' - 4930'. |
|--|

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

| Type                  | Working Pressure (psi) | Test Pressure (psi) | Manufacturer     |
|-----------------------|------------------------|---------------------|------------------|
| annular & double rams | 5000                   | 3000                | To be determined |

|   |                     |  |  |
|---|---------------------|--|--|
| <sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.<br>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.<br>Signature:  |                     | OIL CONSERVATION DIVISION  |  |
| Printed name: Brian Wood  |                     | Approved By:  |  |
| Title: Consultant   |                     | Title:   |  |
| E-mail Address: brian@permitswest.com   |                     | Approved Date: 05/17/2023 Expiration Date: 05/17/2025  |  |
| Date: 4-21-23   | Phone: 505 466-8120 | Conditions of Approval Attached  |  |

## 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 &amp; 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<br>30-025-36940 | <sup>2</sup> Pool Code                                   | <sup>3</sup> Pool Name<br>WILDCAT; SAN ANDRES |
| <sup>4</sup> Property Code<br>331544    | <sup>5</sup> Property Name<br>BOOTS BOO STATE COM        | <sup>6</sup> Well Number<br>001               |
| <sup>7</sup> OGRID No.<br>330887        | <sup>8</sup> Operator Name<br>OPAL OPERATING COMPANY LLC | <sup>9</sup> Elevation<br>4127                |

<sup>10</sup> Surface Location

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E             | 09      | 11 S     | 35 E  |         | 1830          | N                | 660           | W              | LEA    |

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

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| E             | 09      | 11 S     | 35 E  |         | 1830          | N                | 660           | W              | LEA    |

|  |                               |                                  |                         |
|--|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres<br>40.00 | <sup>13</sup> Joint or Infill | <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>17</sup> <b>OPERATOR CERTIFICATION</b><br>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.<br><br>Signature Date<br>BRIAN WOOD<br>Printed Name<br>brian@permitswest.com<br>E-mail Address<br>505 466-8120 |  |  |
|  | <sup>18</sup> <b>SURVEYOR CERTIFICATION</b><br>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.<br>Date of Survey<br>Signature and Seal of Professional Surveyor:<br>Original survey by<br>Herschel Jones 3640<br>dated 11-4-2004<br>on file with NMOCD<br>Certificate Number  |  |  |
|  |   |  |  |
|  |   |  |  |

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:** OPAL OPERATING COMPANY LLC **OGRID:** 330887 **Date:** 04 / 21 / 23

**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: \_\_\_\_\_

**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 |
|-----------------------|--------------|-------------|----------|-----------------------|-----------------------|----------------------------------|
| BOOTS BOO STATE COM 1 | 30-025-36940 | E-9-11S-35E | 1830 FNL | 30                    | 5                     | 45                               |
|                       |              |             | 660 FWL  |                       |                       |                                  |

**IV. Central Delivery Point Name:** EXISTING TARGA PIPELINE ON SAME PAD [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 |
|-----------------------|--------------|-----------|-----------------|------------------------------|------------------------|-----------------------|
| BOOTS BOO STATE COM 1 | 30-025-36940 | 1-21-05   | 3-3-05          | 6-1-23                       | 6-15-23                | 6-22-23               |
|                       |              |           |                 |                              |                        |                       |

**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**

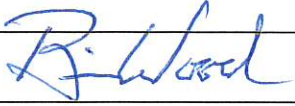
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:   | BRIAN WOOD  |
| Title:  | CONSULTANT  |
| E-mail Address:   | brian@permitswest.com   |
| Date:   | 4-21-23   |
| Phone:  | 505 466-8120  |
| <b>OIL CONSERVATION DIVISION</b><br>(Only applicable when submitted as a standalone form) |   |
| Approved By:  |   |
| Title:  |   |
| Approval Date:  |   |
| Conditions of Approval:   |   |

## VI. Separation Equipment

An on-pad separator will be used. Separated gas will then be piped into an existing Targa pipeline on the same pad.

## VII. Operational Practices

### NMAC 19.15.27.8 (A) Venting & Flaring of Natural Gas

1. Opal Operating Company LLC will comply with NMAC 19.15.27.8 – venting and flaring of gas during drilling, completion, or production that constitutes waste as defined in 19.15.2 is banned.

### NMAC 19.15.27.8 (B) Venting & Flaring During Drilling

1. Opal Operating Company LLC will capture or combust gas if technically feasible during drilling operations using best industry practices.
2. A flare stack with a 100% capacity for expected volume will be set on the pad  $\geq 100$  feet from the nearest well head and storage tank.
3. In an emergency, Opal Operating Company LLC will vent gas in order to avoid substantial impact. Opal Operating Company LLC will report vented or flared gas to the NMOCD.

### NMAC 19.15.27.8 (C) Venting & Flaring During Completion or Recompletion

1. Facilities will be built and ready from the first day of flowback
2. Test separator will be properly separate gas and liquids. Temporary test separator will be used initially to process volumes. In addition, separator will be tied into flowback tanks which will be tied into the gas processing equipment for sale down a pipeline.
3. Should the facility not be ready to process gas, or the gas does not meet quality standards, then storage tanks will be set that are tied into gas busters or a temporary flare to manage all gas. This flare would meet the following requirements:
  - a) An appropriately sized flare stack with an automatic igniter
  - b) Opal Operating Company LLC analyzes gas samples twice a week
  - c) Opal Operating Company LLC flows the gas into a gathering line as soon as the line specifications are met
  - d) Opal Operating Company LLC provides the NMOCD with pipeline specifications and natural gas data.

## NMAC 19.15.27.8 (D) Venting &amp; Flaring During Production

Opal Operating Company LLC will not vent or flare natural gas except:

1. During an emergency or malfunction
2. To unload or clean-up liquid holdup in a well to atmospheric pressure, provided
  - a) Opal Operating Company LLC does not vent after the well achieves a stabilized rate and pressure
  - b) Opal Operating Company LLC will be on-site while unloading liquids by manual purging and take all reasonable actions to achieve a stabilized rate and pressure as soon as possible
  - c) Opal Operating Company LLC will optimize the system to minimize gas venting if the well is equipped with a plunger lift or auto control system
  - d) Best management practices will be used during downhole well maintenance.
3. During the first year of production from an exploratory well provided
  - a) Opal Operating Company LLC receives approval from the NMOCD
  - b) Opal Operating Company LLC stays in compliance with NMOCD gas capture requirements
  - c) Opal Operating Company LLC submits an updated C-129 form to the NMOCD
4. During the following activities unless prohibited
  - a) Gauging or sampling a storage tank or low-pressure production vessel
  - b) Loading out liquids from a storage tank
  - c) Repair and maintenance
  - d) Normal operation of a gas-activated pneumatic controller or pump
  - e) Normal operation of a storage tank but not including venting from a thief hatch
  - f) Normal operation of dehydration units
  - g) Normal operations of compressors, engines, turbines, valves, flanges, & connectors
  - h) During a bradenhead, packer leakage test, or production test lasting <24 hours
  - i) When natural gas does not meet the gathering line specifications
  - j) Commissioning of pipes, equipment, or facilities only for as long as necessary to purge introduced impurities.

## NMAC 19.15.27.8 (E) Performance Standards

1. Opal Operating Company LLC will use a safety factor to design the separation and storage equipment. The equipment will be routed to a vapor recovery system and use a flare as back up for startup, shutdown, maintenance, or malfunction of the VRU system.
2. Opal Operating Company LLC will install a flare that will handle the full volume of vapors from the facility in case of VRU failure. It will have an auto-ignition system.
3. Flare stacks will be appropriately sized and designed to ensure proper combustion efficiency
  - a) Flare stacks installed or replaced will be equipped with an automatic ignitor or continuous pilot.

- b) Previously installed flare stacks will be retrofitted within 18 months of May 25, 2021, with an automatic ignitor, continuous pilot, or technology that alerts Opal Operating Company LLC to flare malfunction.
  - c) Flare stacks replaced after May 25, 2021, will be equipped with an automatic ignitor or continuous pilot if at a well or facility with an average production of  $\leq 60$  Mcfd of natural gas.
  - d) Flare stacks will be located  $>100$  feet from well head and tanks and securely anchored.
4. Opal Operating Company LLC will conduct an AVO inspection on all components for leaks and defects every week.
  5. Opal Operating Company LLC will make and keep records of AVO inspections available to the NMOCD for at least 5 years.
  6. Opal Operating Company LLC may use a remote or automated monitoring technology to detect leaks and releases in lieu of AVO inspections with prior NMOCD approval.
  7. Facilities will be designed to minimize waste.
  8. Opal Operating Company LLC will resolve emergencies as promptly as possible.

NMAC 19.15.27.8 (F) Measuring or Estimating Vented & Flared Natural Gas

1. Opal Operating Company LLC will have meters on both the low and high-pressure sides of the flares. Volumes will be recorded in the SCADA system.
2. Opal Operating Company LLC will install equipment to measure the volume of flared natural gas that has an average production of  $\geq 60$  Mcfd.
3. Opal Operating Company LLC's measuring equipment will conform to industry standards.
4. Measurement system will be designed such that it cannot be bypassed except for inspections and servicing the meters.
5. Opal Operating Company LLC will estimate the volume of vented or flared gas using a methodology that can be independently verified if metering is not practicable due to low flow rate or pressure.
6. Opal Operating Company LLC will estimate the volume of vented and flared gas based on the results of an annual GOR test for wells that do not require measuring equipment reported on form C-116.
7. Opal Operating Company LLC will install measuring equipment whenever the NMOCD determines that metering is necessary.

### **VIII. Best Management Practices**

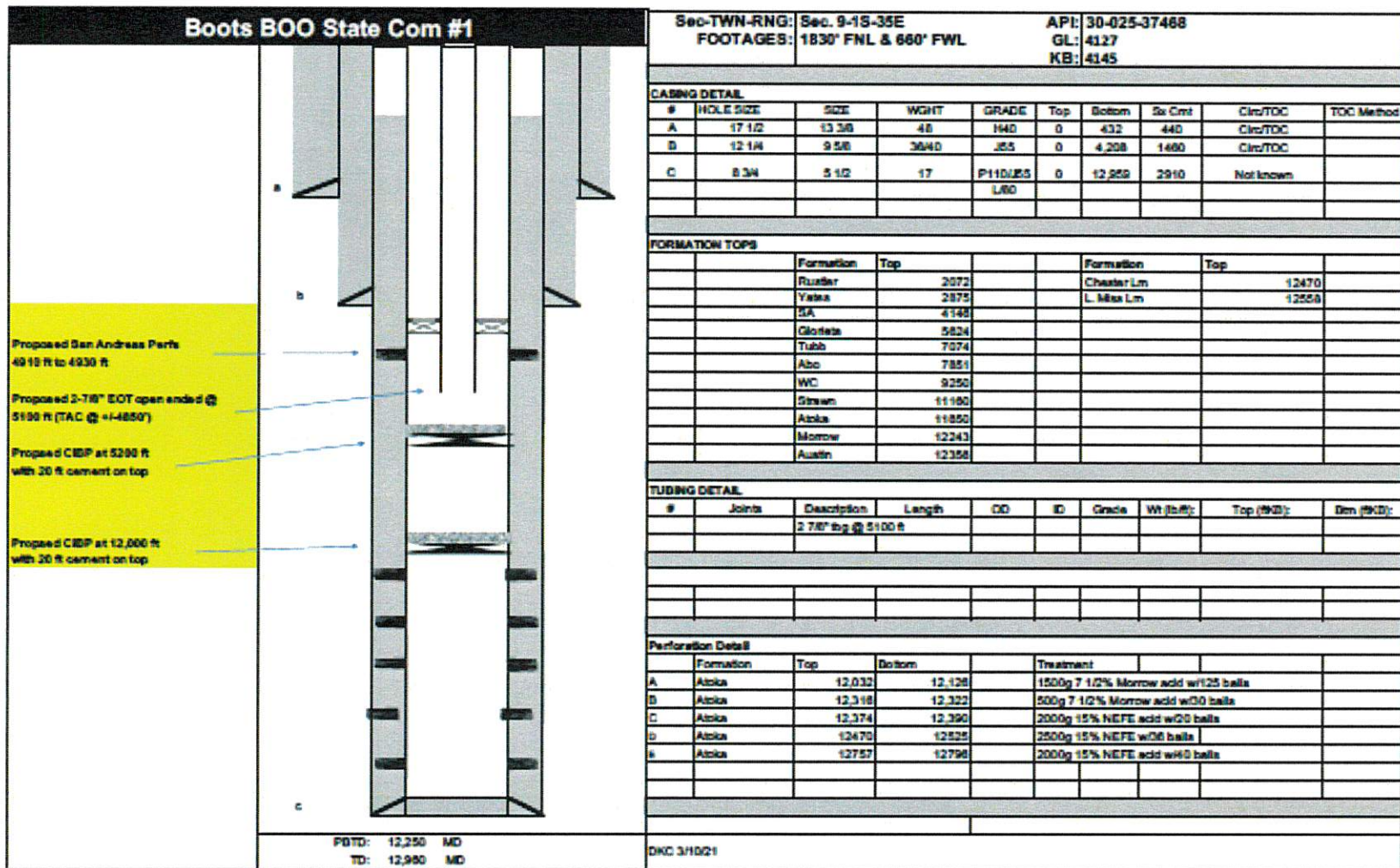
Opal Operating Company LLC will minimize venting during maintenance by:

1. System will be designed and operated to route storage tank and process equipment emissions to the VRU. If the VRU is not operable, then vapors will be routed to the flare.
2. Scheduling maintenance for multiple tasks to minimize the need for blowdowns.
3. After completion of maintenance, gas will be flared until it meets pipeline specifications.

"As Is"

| Boots BOO State Com #1  |           | Sec-TWN-RNG:              | Sec. 8-13S-35E       | API: 30-025-37488    |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|---|-----------|---------------------------|----------------------|----------------------|--------------------------------------|--------|------------|------------|------------|--|--|--|--|--|---|-----------|------|------|-------|-----|--------|---------|----------|------------|---|--------|--------|----|-----|---|-----|-----|----------|--|---|--------|-------|------|-----|---|-------|------|----------|--|---|-------|-------|----|----------------|---|--------|------|-----------|--|----------------|--|--|--|--|-----------|-----|--|--|---------|------|--|--|-------|------|--|--|----|------|--|--|----------|------|--|--|------|------|--|--|-----|------|--|--|----|------|--|--|--------|-------|--|--|--------|-------|--|--|--------|-------|--|--|--------|-------|--|---------------|--|--|--|--|--|--|--|--|--|---|--------|-------------|--------|----|----|-------|------------|------------|------------|--|--|---------------------------|--|--|--|--|--|--|--|--------------------|--|--|--|--|--|--|--|--|-----------|-----|--------|--------|-----------|--|--|---|--------|--------|--------|--------|--------------------------------------|--|--|---|--------|--------|--------|-----|------------------------------------|--|--|---|--------|--------|--------|-----|--------------------------------|--|--|---|--------|-------|-------|-----|---------------------------|--|--|---|--------|-------|-------|-----|--------------------------------|--|--|
|   |           | FOOTAGES:                 | 1830' FNL & 660' FWL | GL: 4127<br>KB: 4145 |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>TOC ?</p> <p>Part A<br/>4/4/00 Set CIBP @ 12250 w/0.5' cmt<br/>Part B<br/>3/30/00 Set CIBP @ 12301<br/>Part C<br/>3/30/00 Set CIBP @ 12720 w/0.5' cmt<br/>Part D<br/>3/30/00 Set CIBP @ 12720 w/0.5' cmt<br/>Part E</p> <p>PSTD: 12,250 MD<br/>TD: 12,960 MD</p> </div> <div style="width: 50%;"> <table border="1"> <thead> <tr> <th colspan="10">CASING DETAIL</th> </tr> <tr> <th>#</th> <th>HOLE SIZE</th> <th>SIZE</th> <th>WGHT</th> <th>GRADE</th> <th>Top</th> <th>Bottom</th> <th>Sealant</th> <th>Circ/TOC</th> <th>TOC Method</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>17 1/2</td> <td>13.3/8</td> <td>48</td> <td>H40</td> <td>0</td> <td>432</td> <td>440</td> <td>Circ/TOC</td> <td></td> </tr> <tr> <td>B</td> <td>12 1/4</td> <td>9.5/8</td> <td>3640</td> <td>J55</td> <td>0</td> <td>4,208</td> <td>1480</td> <td>Circ/TOC</td> <td></td> </tr> <tr> <td>C</td> <td>8 3/4</td> <td>5 1/2</td> <td>17</td> <td>P110US5<br/>L80</td> <td>0</td> <td>12,959</td> <td>2910</td> <td>Not known</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="4">FORMATION TOPS</th> </tr> <tr> <th></th> <th>Formation</th> <th>Top</th> <th></th> </tr> </thead> <tbody> <tr> <td></td> <td>Rustler</td> <td>2072</td> <td></td> </tr> <tr> <td></td> <td>Yates</td> <td>2875</td> <td></td> </tr> <tr> <td></td> <td>SA</td> <td>4140</td> <td></td> </tr> <tr> <td></td> <td>Glorieta</td> <td>5624</td> <td></td> </tr> <tr> <td></td> <td>Tubb</td> <td>7074</td> <td></td> </tr> <tr> <td></td> <td>Abn</td> <td>7851</td> <td></td> </tr> <tr> <td></td> <td>WC</td> <td>9250</td> <td></td> </tr> <tr> <td></td> <td>Strawn</td> <td>11160</td> <td></td> </tr> <tr> <td></td> <td>Alaska</td> <td>11650</td> <td></td> </tr> <tr> <td></td> <td>Morrow</td> <td>12242</td> <td></td> </tr> <tr> <td></td> <td>Austin</td> <td>12366</td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="10">TUBING DETAIL</th> </tr> <tr> <th>#</th> <th>Joints</th> <th>Description</th> <th>Length</th> <th>OD</th> <th>ID</th> <th>Grade</th> <th>Wt (lb/ft)</th> <th>Top (ft/D)</th> <th>Bot (ft/D)</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td>2 7/8" top/pecker @ 11765</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th colspan="8">Perforation Detail</th> </tr> <tr> <th></th> <th>Formation</th> <th>Top</th> <th>Bottom</th> <th>Active</th> <th>Treatment</th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td>A</td> <td>Alaska</td> <td>12,030</td> <td>12,120</td> <td>Active</td> <td>1500g 7 1/2% Morrow acid w/125 balls</td> <td></td> <td></td> </tr> <tr> <td>B</td> <td>Alaska</td> <td>12,316</td> <td>12,322</td> <td>Abn</td> <td>500g 7 1/2% Morrow acid w/30 balls</td> <td></td> <td></td> </tr> <tr> <td>C</td> <td>Alaska</td> <td>12,374</td> <td>12,390</td> <td>Abn</td> <td>2000g 15% NEFE acid w/20 balls</td> <td></td> <td></td> </tr> <tr> <td>D</td> <td>Alaska</td> <td>12470</td> <td>12525</td> <td>Abn</td> <td>2500g 15% NEFE w/60 balls</td> <td></td> <td></td> </tr> <tr> <td>E</td> <td>Alaska</td> <td>12757</td> <td>12796</td> <td>Abn</td> <td>2000g 15% NEFE acid w/40 balls</td> <td></td> <td></td> </tr> </tbody> </table> <p>DWC 3/10/21</p> </div> </div> |           |                           |                      |                      | CASING DETAIL                        |        |            |            |            |  |  |  |  |  | # | HOLE SIZE | SIZE | WGHT | GRADE | Top | Bottom | Sealant | Circ/TOC | TOC Method | A | 17 1/2 | 13.3/8 | 48 | H40 | 0 | 432 | 440 | Circ/TOC |  | B | 12 1/4 | 9.5/8 | 3640 | J55 | 0 | 4,208 | 1480 | Circ/TOC |  | C | 8 3/4 | 5 1/2 | 17 | P110US5<br>L80 | 0 | 12,959 | 2910 | Not known |  | FORMATION TOPS |  |  |  |  | Formation | Top |  |  | Rustler | 2072 |  |  | Yates | 2875 |  |  | SA | 4140 |  |  | Glorieta | 5624 |  |  | Tubb | 7074 |  |  | Abn | 7851 |  |  | WC | 9250 |  |  | Strawn | 11160 |  |  | Alaska | 11650 |  |  | Morrow | 12242 |  |  | Austin | 12366 |  | TUBING DETAIL |  |  |  |  |  |  |  |  |  | # | Joints | Description | Length | OD | ID | Grade | Wt (lb/ft) | Top (ft/D) | Bot (ft/D) |  |  | 2 7/8" top/pecker @ 11765 |  |  |  |  |  |  |  | Perforation Detail |  |  |  |  |  |  |  |  | Formation | Top | Bottom | Active | Treatment |  |  | A | Alaska | 12,030 | 12,120 | Active | 1500g 7 1/2% Morrow acid w/125 balls |  |  | B | Alaska | 12,316 | 12,322 | Abn | 500g 7 1/2% Morrow acid w/30 balls |  |  | C | Alaska | 12,374 | 12,390 | Abn | 2000g 15% NEFE acid w/20 balls |  |  | D | Alaska | 12470 | 12525 | Abn | 2500g 15% NEFE w/60 balls |  |  | E | Alaska | 12757 | 12796 | Abn | 2000g 15% NEFE acid w/40 balls |  |  |
| CASING DETAIL   |           |                           |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| #   | HOLE SIZE | SIZE                      | WGHT                 | GRADE                | Top                                  | Bottom | Sealant    | Circ/TOC   | TOC Method |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| A   | 17 1/2    | 13.3/8                    | 48                   | H40                  | 0                                    | 432    | 440        | Circ/TOC   |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| B   | 12 1/4    | 9.5/8                     | 3640                 | J55                  | 0                                    | 4,208  | 1480       | Circ/TOC   |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| C   | 8 3/4     | 5 1/2                     | 17                   | P110US5<br>L80       | 0                                    | 12,959 | 2910       | Not known  |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| FORMATION TOPS  |           |                           |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Formation | Top                       |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Rustler   | 2072                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Yates     | 2875                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | SA        | 4140                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Glorieta  | 5624                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Tubb      | 7074                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Abn       | 7851                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | WC        | 9250                      |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Strawn    | 11160                     |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Alaska    | 11650                     |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Morrow    | 12242                     |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Austin    | 12366                     |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| TUBING DETAIL   |           |                           |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| #   | Joints    | Description               | Length               | OD                   | ID                                   | Grade  | Wt (lb/ft) | Top (ft/D) | Bot (ft/D) |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   |           | 2 7/8" top/pecker @ 11765 |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| Perforation Detail  |           |                           |                      |                      |                                      |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
|   | Formation | Top                       | Bottom               | Active               | Treatment                            |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| A   | Alaska    | 12,030                    | 12,120               | Active               | 1500g 7 1/2% Morrow acid w/125 balls |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| B   | Alaska    | 12,316                    | 12,322               | Abn                  | 500g 7 1/2% Morrow acid w/30 balls   |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| C   | Alaska    | 12,374                    | 12,390               | Abn                  | 2000g 15% NEFE acid w/20 balls       |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| D   | Alaska    | 12470                     | 12525                | Abn                  | 2500g 15% NEFE w/60 balls            |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |
| E   | Alaska    | 12757                     | 12796                | Abn                  | 2000g 15% NEFE acid w/40 balls       |        |            |            |            |  |  |  |  |  |   |           |      |      |       |     |        |         |          |            |   |        |        |    |     |   |     |     |          |  |   |        |       |      |     |   |       |      |          |  |   |       |       |    |                |   |        |      |           |  |                |  |  |  |  |           |     |  |  |         |      |  |  |       |      |  |  |    |      |  |  |          |      |  |  |      |      |  |  |     |      |  |  |    |      |  |  |        |       |  |  |        |       |  |  |        |       |  |  |        |       |  |               |  |  |  |  |  |  |  |  |  |   |        |             |        |    |    |       |            |            |            |  |  |                           |  |  |  |  |  |  |  |                    |  |  |  |  |  |  |  |  |           |     |        |        |           |  |  |   |        |        |        |        |                                      |  |  |   |        |        |        |     |                                    |  |  |   |        |        |        |     |                                |  |  |   |        |       |       |     |                           |  |  |   |        |       |       |     |                                |  |  |

PROPOSED



Opal Operating Company LLC  
Boots Boo State Com 001

| Formation                                | Top           |
|--|---------------|
| Rustler                                  | 2072          |
| Yates                                    | 2875          |
| San Andres                               | 4146          |
| <i>Proposed<br/>San Andres<br/>perfs</i> | 4910' – 4930' |
| Glorieta                                 | 5624          |
| Tubb                                     | 7074          |
| Abo                                      | 7851          |
| WC                                       | 9250          |
| Strawn                                   | 11160         |
| Atoka                                    | 11650         |
| Morrow                                   | 12243         |
| PBTD                                     | 12250         |
| Austin                                   | 12356         |
| TD                                       | 12960         |

**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  
**District IV**  
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 211722

CONDITIONS

|   |   |
|---|---|
| Operator:<br>Opal Operating Company LLC<br>4811 Gaillardia Parkway<br>Oklahoma City, OK 73142 | OGRID:<br>330887  |
|   | Action Number:<br>211722                                  |
|   | Action Type:<br>[C-101] Drilling Non-Federal/Indian (APD) |

CONDITIONS

| Created By | Condition  | Condition Date |
|------------|--|----------------|
| pkautz     | MUST ADEQUATLY PLUG BACK LOWER PRODUCING INTERVAL PRIOR TO PERFORARTING THE SAN ANDRES | 5/17/2023      |