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 1000 Rio Brazos Rd., Aztec, NM 87410  
 District IV – (505) 476-3460  
 1220 S. St. Francis Dr., Santa Fe, NM  
 87505

State of New Mexico  
 Energy, Minerals and Natural Resources

Form C-103  
 Revised July 18, 2013

OIL CONSERVATION DIVISION  
 1220 South St. Francis Dr.  
 Santa Fe, NM 87505

|                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                     |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br>(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)<br>1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other |  | WELL API NO.<br>30-015-55144<br>5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/><br>6. State Oil & Gas Lease No. |
| 2. Name of Operator<br>Permian Resources Operating LLC                                                                                                                                                                                                                                                                 |  | 7. Lease Name or Unit Agreement Name<br>BETTY                                                                                                                       |
| 3. Address of Operator<br>300 N Marienfeld St Ste 1000                                                                                                                                                                                                                                                                 |  | 8. Well Number<br>222H                                                                                                                                              |
| 4. Well Location<br>Unit Letter <u>F</u> : <u>1410</u> feet from the <u>North</u> line and <u>1667</u> feet from the <u>West</u> line<br>Section <u>4</u> Township <u>22S</u> Range <u>27E</u> NMPM County <u>Eddy</u>                                                                                                 |  | 9. OGRID Number<br>372165                                                                                                                                           |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)                                                                                                                                                                                                                                                                     |  | 10. Pool name or Wildcat<br>Purple Sagel Wolfcamp (Gas)                                                                                                             |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO:                        |                                                  | SUBSEQUENT REPORT OF:                            |                                          |
|------------------------------------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/>        | REMEDIAL WORK <input type="checkbox"/>           | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/>   | CHANGE PLANS <input checked="" type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/>         |
| PULL OR ALTER CASING <input type="checkbox"/>  | MULTIPLE COMPL <input type="checkbox"/>          | CASING/CEMENT JOB <input type="checkbox"/>       |                                          |
| DOWNHOLE COMMINGLE <input type="checkbox"/>    |                                                  |                                                  |                                          |
| CLOSED-LOOP SYSTEM <input type="checkbox"/>    |                                                  |                                                  |                                          |
| OTHER: <input type="checkbox"/>                |                                                  | OTHER: <input type="checkbox"/>                  |                                          |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Permian Resources Operating LLC Respectfully submits the following NOI to APD Change for the Production hole size. The production hole size will be tapered according to the attached drilling plan. We will drill a 8.75" Hole from 0 – 9362' and then a 7.875 hole from 9362' – 19721'.

Spud Date:  Rig Release Date:

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

SIGNATURE \_\_\_\_\_ TITLE Regulatory Specialist DATE 6/13/24

Type or print name Cassie Evans E-mail address: Cassie.Evans@permianres.com PHONE: 432-313-1732

**For State Use Only**

APPROVED BY: \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

Conditions of Approval (if any):

## Permian Resources - Betty 222H

## 1. Geologic Formations

| Formation            | Elevation | TVD  | Target |
|----------------------|-----------|------|--------|
| Rustler              | 2918      | 275  | No     |
| Top of Salt          | NP        | NP   | No     |
| Lamar                | 1433      | 1760 | No     |
| Capitan              | 2843      | 350  | No     |
| Bell Canyon          | 1217      | 1976 | No     |
| Cherry Canyon        | 383       | 2810 | No     |
| Brushy Canyon        | -567      | 3760 | No     |
| Bone Spring Lime     | -1900     | 5093 | No     |
| 1st Bone Spring Sand | -3119     | 6312 | No     |
| 2nd Bone Spring Sand | -3903     | 7096 | No     |
| 3rd Bone Spring Sand | -5203     | 8396 | No     |
| Wolfcamp             | -5499     | 8692 | Yes    |

## 2. Blowout Prevention

| BOP installed and tested before drilling | Size?   | Min. Required WP | Type       | x | Tested to: |
|------------------------------------------|---------|------------------|------------|---|------------|
| 12.25                                    | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                          |         |                  | Blind Ram  | x | 5000 psi   |
|                                          |         |                  | Pipe Ram   | x |            |
|                                          |         |                  | Double Ram |   |            |
|                                          |         |                  | Other*     |   |            |
| 8.75                                     | 13-5/8" | 5M               | Annular    | x | 2500 psi   |
|                                          |         |                  | Blind Ram  | x | 5000 psi   |
|                                          |         |                  | Pipe Ram   | x |            |
|                                          |         |                  | Double Ram |   |            |
|                                          |         |                  | Other*     |   |            |

**Equipment:** BOPE with working pressure ratings in excess of anticipated maximum surface pressure will be utilized for well control from drill out of surface casing to TMD. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested. All BOPE connections shall be flanged, welded or clamped. All choke lines shall be straight unless targeted with running tees or tee blocks are used, and choke lines shall be anchored to prevent whip and reduce vibrations. All valves in the choke line & the choke manifold shall be full opening as to not cause restrictions and to allow for straight fluid paths to minimize potential erosion. All gauges utilized in the well control system shall be of a type designed for drilling fluid service. A top drive inside BOP valve will be utilized at all times. Subs equipped with full opening valves sized to fit the drill pipe and collars will be available on the rig floor in the open position. The key to operate said valve equipped subs will be on the rig floor at all times. The accumulator system will have sufficient capacity to open the HCR and close all three sets of rams plus the annular preventer while retaining at least 300 psi above precharge on the closing manifold (accumulator system shall be capable of doing so without using the closing unit pumps). The fluid reservoir capacity will be double the usable fluid volume of the accumulator system capacity, and the fluid level will be maintained at the manufacturer's recommended level. Prior to connecting the closing unit to the BOP stack, an accumulator precharge pressure test shall be performed to ensure the precharge pressure is within 100 psi of the desired precharge pressure (only nitrogen gas will be used to precharge). Two independent power sources will be made available at all times to power the closing unit pumps so that the pumps can automatically start when the closing valve manifold pressure has decreased to the preset level. Closing unit pumps will be sized to allow opening of HCR and closing of annular preventer on 5" drill pipe achieving at least 200 psi above precharge pressure with the accumulator system isolated from service in less than two minutes. A valve shall be installed in the closing line as close to the annular preventer as possible to act as a locking device; the valve shall be maintained in the open position and shall be closed only when the power source for the accumulator system is inoperative. Remote controls capable of opening and closing all preventers & the HCR shall be readily accessible to the driller; master controls with the same capability will be operable at the accumulator. The wellhead will be a multibowl speed head allowing for hangoff of intermediate casing & isolation of the 133/8 x 95/8 annulus without breaking the connection between the BOP & wellhead to install an additional casing head. A wear bushing will be installed & inspected frequently to guard against internal wear to wellhead. VBRs (variablebore rams) will be run in upper rambody of BOP stack to provide redundancy to annular preventer while RIH w/ production casing;

**Requesting Variance?** YES

**Variance request:** Flex hose and offline cement variances, see attachments in section 8.

**Testing Procedure:** The BOP test shall be performed before drilling out of the surface casing shoe and will occur at a minimum: a. when initially installed b. whenever any seal subject to test pressure is broken c. following related repairs d. at 30 day intervals e. checked daily as to mechanical operating conditions. The ram type preventer(s) will be tested using a test plug to 250 psi (low) and 5,000 psi (high) (casinghead WP) with a test plug upon its installation onto the 13 surface casing. If a test plug is not used, the ram type preventer(s) shall be tested to 70% of the minimum internal yield pressure of the casing. The annular type preventer(s) shall be tested to 3500 psi. Pressure will be maintained for at least 10 minutes or until provisions of the test are met, whichever is longer. A Sundry Notice (Form 3160 5), along with a copy of the BOP test report, shall be submitted to the local BLM office within 5 working days following the test. If the bleed line is connected into the buffer tank (header), all BOP equipment including the buffer tank and associated valves will be rated at the required BOP pressure. The BLM office will be provided with a minimum of four (4) hours notice of BOP testing to allow witnessing. The BOP Configuration, choke manifold layout, and accumulator system, will be in compliance with Onshore Order 2 for a 5,000 psi system. A remote accumulator and a multi-bowl system will be used, please see attachment in section 8 for multi-bowl procedure. Pressures, capacities, and specific placement and use of the manual and/or hydraulic controls, accumulator controls, bleed lines, etc., will be identified at the time of the BLM 'witnessed BOP test. Any remote controls will be capable of both opening and closing all preventers and shall be readily accessible.

Choke Diagram Attachment: 5 M Choke Manifold

BOP Diagram Attachment: BOP Schematic

## 3. Casing

| String                | Hole Size | Casing Size | Top  | Bottom | Top TVD | Bottom TVD | Length | Grade  | Weight | Connection | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------------------|-----------|-------------|------|--------|---------|------------|--------|--------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
| Surface               | 17.5      | 13.375      | 0    | 300    | 0       | 300        | 300    | J55    | 54.5   | BTC        | 7.62        | 52.49    | Dry           | 7.81     | Dry          | 7.33    |
| Intermediate          | 12.25     | 9.625       | 0    | 1810   | 0       | 1810       | 1810   | J55    | 40     | BTC        | 2.65        | 1.59     | Dry           | 4.14     | Dry          | 3.65    |
| Production            | 8.75      | 5.5         | 0    | 9362   | 0       | 8890       | 9362   | P110RY | 20     | TCBC-HT    | 2.29        | 2.38     | Dry           | 2.31     | Dry          | 2.31    |
| Production            | 7.875     | 5.5         | 9362 | 19721  | 8890    | 8890       | 10359  | P110RY | 20     | TCBC-HT    | 2.29        | 2.38     | Dry           | 2.31     | Dry          | 2.31    |
| BLM Min Safety Factor |           |             |      |        |         |            |        |        |        |            | 1.125       | 1        |               | 1.6      |              | 1.6     |

Non API casing spec sheets and casing design assumptions attached.

## 4. Cement

| String       | Lead/Tail | Top MD | Bottom MD | Quantity (sx) | Yield | Density | Cu Ft | Excess % | Cement Type | Additives                                       |
|--------------|-----------|--------|-----------|---------------|-------|---------|-------|----------|-------------|-------------------------------------------------|
| Surface      | Lead      | 0      | 240       | 190           | 1.88  | 12.9    | 340   | 100%     | Class C     | EconoCem-HLC + 5% Salt + 5% Kol-Seal            |
| Surface      | Tail      | 240    | 300       | 60            | 1.34  | 14.8    | 70    | 50%      | Class C     | Accelerator                                     |
| Intermediate | Lead      | 0      | 1440      | 370           | 1.88  | 12.9    | 680   | 50%      | Class C     | EconoCem-HLC + 5% Salt + 5% Kol-Seal            |
| Intermediate | Tail      | 1440   | 1810      | 140           | 1.34  | 14.8    | 180   | 50%      | Class C     | Retarder                                        |
| Production   | Lead      | 0      | 8759      | 1220          | 2.41  | 11.5    | 2930  | 40%      | Class H     | POZ, Extender, Fluid Loss, Dispersant, Retarder |
| Production   | Tail      | 8759   | 19721     | 1420          | 1.73  | 12.5    | 2440  | 25%      | Class H     | POZ, Extender, Fluid Loss, Dispersant, Retarder |

## 5. Circulating Medium

**Mud System Type:** Closed

**Will an air or gas system be used:** No

**Describe what will be on location to control well or mitigate other conditions:** Sufficient quantities of mud materials will be on the well site at all times for the purpose of assuring well control and maintaining wellbore integrity. Surface interval will employ fresh water mud. The intermediate hole will utilize a saturated brine fluid to inhibit salt washout. The production hole will employ brine based and oil base fluid to inhibit formation reactivity and of the appropriate density to maintain well control.

**Describe the mud monitoring system utilized:** Centrifuge separation system. Open tank monitoring with EDR will be used for drilling fluids and return volumes. Open tank monitoring will be used for cement and cuttings return volumes. Mud properties will be monitored at least every 24 hours using industry accepted mud check practices.

**Cuttings Volume:** 8400 Cu Ft

Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type        | Min Weight | Max Weight |
|-----------|--------------|-----------------|------------|------------|
| 0         | 300          | Spud Mud        | 8.6        | 9.5        |
| 300       | 1810         | Water Based Mud | 10         | 10         |
| 1810      | 9362         | Water Based Mud | 9          | 10.5       |
| 9362      | 19721        | OBM             | 9          | 10.5       |

**6. Test, Logging, Coring**

**List of production tests including testing procedures, equipment and safety measures:**

Will utilize MWD/LWD (Gamma Ray logging) from intermediate hole to TD of the well.

**List of open and cased hole logs run in the well:**

DIRECTIONAL SURVEY, GAMMA RAY LOG,

**Coring operation description for the well:**

N/A

**7. Pressure**

|                                                     |      |     |
|-----------------------------------------------------|------|-----|
| Anticipated Bottom Hole Pressure                    | 4860 | psi |
| Anticipated Surface Pressure                        | 2898 | psi |
| Anticipated Bottom Hole Temperature                 | 146  | °F  |
| Anticipated Abnormal pressure, temp, or geo hazards | No   |     |

**8. Waste Management**

|                               |                                                  |
|-------------------------------|--------------------------------------------------|
| <b>Waste Type:</b>            | <b>Drilling</b>                                  |
| Waste content description:    | Fresh water based drilling fluid                 |
| Amount of waste:              | 1500 bbls                                        |
| Waste disposal frequency:     | Weekly (after drilling all surfaces)             |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type:          | Haul to commercial facility                      |
| Disposal location ownership:  | Commercial                                       |
| <b>Waste Type:</b>            | <b>Grey Water &amp; Human Waste</b>              |
| Waste content description:    | Grey Water/Human Waste                           |
| Amount of waste:              | 5000 gallons                                     |
| Waste disposal frequency:     | Weekly                                           |
| Safe containment description: | Approved waste storage tanks with containment    |
| Waste disposal type:          | Haul to commercial facility                      |
| Disposal location ownership:  | Commercial                                       |
| <b>Waste Type:</b>            | <b>Garbage</b>                                   |
| Waste content description:    | General trash/garbage                            |
| Amount of waste:              | 5000 lbs                                         |
| Waste disposal frequency:     | Weekly                                           |
| Safe containment description: | Enclosed trash trailer                           |
| Waste disposal type:          | Haul to commercial facility                      |
| Disposal location ownership:  | Commercial                                       |
| <b>Waste Type:</b>            | <b>Drilling</b>                                  |
| Waste content description:    | Drill Cuttings                                   |
| Amount of waste:              | 8400 Cu Ft                                       |
| Waste disposal frequency:     | Per well                                         |
| Safe containment description: | Steel tanks                                      |
| Waste disposal type:          | Haul to commercial facility                      |
| Disposal location ownership:  | Commercial                                       |
| <b>Waste Type:</b>            | <b>Drilling</b>                                  |
| Waste content description:    | Brine water based drilling fluid                 |
| Amount of waste:              | 1500 bbls                                        |
| Waste disposal frequency:     | Monthly                                          |
| Safe containment description: | Steel tanks with plastic-lined containment berms |
| Waste disposal type:          | Haul to commercial facility                      |
| Disposal location ownership:  | Commercial                                       |

**9. Other Information**

Well Plan and AC Report: attached  
Batching Drilling Procedure: attached  
WBD: attached  
Flex Hose Specs: attached  
Offline Cementing Procedure Attached:

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

CONDITIONS

Action 354148

CONDITIONS

|                                                                                                     |                                                      |
|-----------------------------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>Permian Resources Operating, LLC<br>300 N. Marienfeld St Ste 1000<br>Midland, TX 79701 | OGRID:<br>372165                                     |
|                                                                                                     | Action Number:<br>354148                             |
|                                                                                                     | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By  | Condition                                                                                                                                 | Condition Date |
|-------------|-------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| ward.rikala | All original COA's still apply. Additionally, if cement is not circulated to surface during cementing operations, then a CBL is required. | 6/17/2024      |