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 District I - (575) 393-6161  
 1625 N. French Dr., Hobbs, NM 88240  
 District II - (575) 748-1283  
 811 S. First St., Artesia, NM 88210  
 District III - (505) 334-6178  
 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

|   |  |   |
|---|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS<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.)                  |  | WELL API NO.<br><u>30-005-61150</u>   |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input checked="" type="checkbox"/> Other <input type="checkbox"/>  |  | 5. Indicate Type of Lease<br>STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator<br><u>JACK J. GRYNBERG</u>  |  | 6. State Oil & Gas Lease No.<br><u>STA-UG-566-1</u>   |
| 3. Address of Operator<br><u>3773 CHERRY CREEK N. DR., DENVER, CO 80202</u>   |  | 7. Lease Name or Unit Agreement Name<br><u>GRYNBERG 16 STATE</u>                                    |
| 4. Well Location<br>Unit Letter <u>N</u> : <u>660</u> feet from the <u>SOUTH</u> line and <u>1980</u> feet from the <u>WEST</u> line<br>Section <u>16</u> Township <u>5S</u> Range <u>24E</u> NMPM County <u>CHAVES</u> |  | 8. Well Number <u>2</u>   |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.)<br><u>4031 GR</u>  |  | 9. OGRID Number<br><u>11492</u>   |
|   |  | 10. Pool name or Wildcat<br><u>PECOS SLOPE, A30</u>   |

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒  
 TEMPORARILY ABANDON ☐ CHANGE PLANS ☐  
 PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐  
 DOWNHOLE COMMINGLE ☐  
 CLOSED-LOOP SYSTEM ☐  
 OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐  
 COMMENCE DRILLING OPNS. ☐ P AND A ☐  
 CASING/CEMENT JOB ☐

Notify OCD 24 hrs. prior to any work done

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.

REQUEST FOR PERMISSION TO PLUG + ABANDON WELL.

SEE ATTACHED PROCEDURE.

SEE CHANGES TO PROCEDURE

Spud Date:

9-12-2022

Rig Release Date:

9-16-2022

\*\*\*\*SEE ATTACHED COA's\*\*\*\*

MUST BE PLUGGED BY 8/11/2023

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

SIGNATURE

Adam Pfeifer

TITLE

CONSULTANT PROD ENG

DATE

8-6-2022

Type or print name

ADAM PFEIFER

E-mail address:

adam.pfeifer28@gmail.com

PHONE:

785-216-0160

For State Use Only

APPROVED BY:

[Signature]

TITLE

Staff Manager

DATE

8/11/2022

Conditions of Approval (if any):

**WELL NAME:** Grynberg 16 State #002**API #:** 30-005-61150**AFE:****DATE:** 7/19/2022**ENGINEER:** Adam Pfeifer**PROCEDURE:** Plug and Abandon**CURRENT OPERATION:**

This well is a currently active gas well. Due to economics this well has been selected to be plugged and abandoned.

**WELL SUMMARY:**

Formation Tops:

- Oil or Gas Sands or Zones:
  - Abo: 3,540'
- Important Water Sands:
  - San Andres: 475'
  - Glorieta: 1,355'

Use closed loop system - no fluids on ground

Cement in/out at all formation tops / shoes - cement must be from 50' below to 50' above

Perforation Depths:

- 3,585 – 3,604'
- 3,904 – 3,915'

Current Tubular Data:

| Tubular Data | Size (in) | Weight (lb/ft) | ID (in) | Depth Set (ft) | Hole Size (in) |
|--------------|-----------|----------------|---------|----------------|----------------|
| Surface      | 10.785    | 32.750         | 10.192  | 820            | 14.785         |
| Intermediate | 0.000     | 0.000          | 0.000   | 0              | 0.000          |
| Production   | 4.500     | 10.500         | 4.052   | 4050           | 7.875          |
| Tubing       | 2.375     | 4.700          | 1.995   | 3838           | NA             |

**REQUIRED NMOCD SUBMISSIONS:**

Form C-103 – Notice of Intent to P&amp;A

Form C-105 – Well Completion or Recompletion Report and Log (P&amp;A Details)

**GADECO CONTACTS:**Adam Pfeifer – Project Manager, Cell: 785-216-0160, [adam.pfeifer28@gmail.com](mailto:adam.pfeifer28@gmail.com)**EMERGENCY CONTACTS:**Hospital: Lovelace Regional Hospital, 117E 19<sup>th</sup> St, Roswell, NM 88201, (575) 627-7000

Fire: Roswell Fire Department Station #3, 2800 Wilshire Blvd, Roswell, NM 88201, (575) 624-6813

Sheriff: Chaves County Sheriff's Office, 1 St Mary's Pl, Roswell, NM 88203, (575) 624-6500

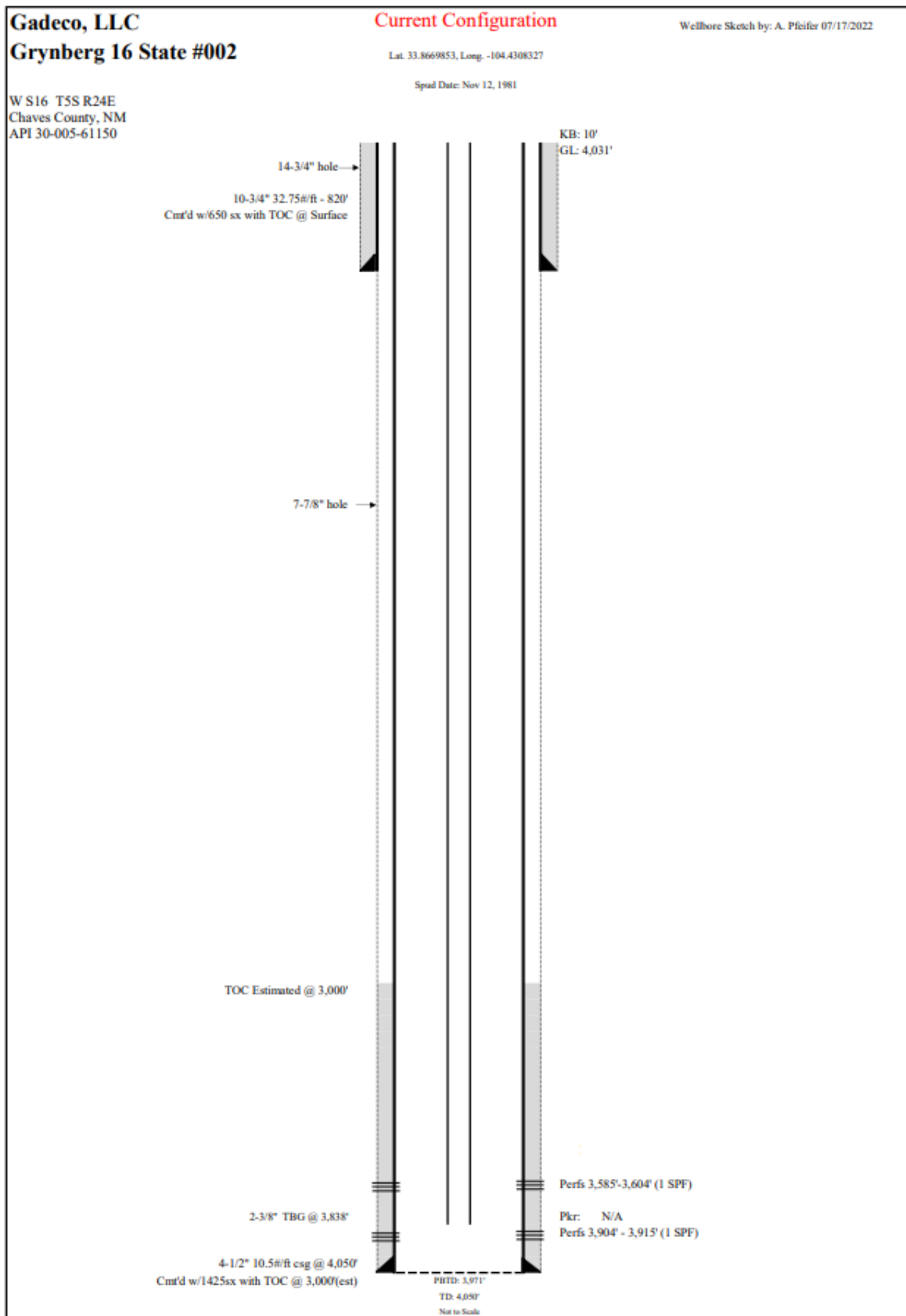
**VENDOR CONTACTS: TBD****HS&E:**

This workover does not introduce any new equipment, materials, or process hazards.

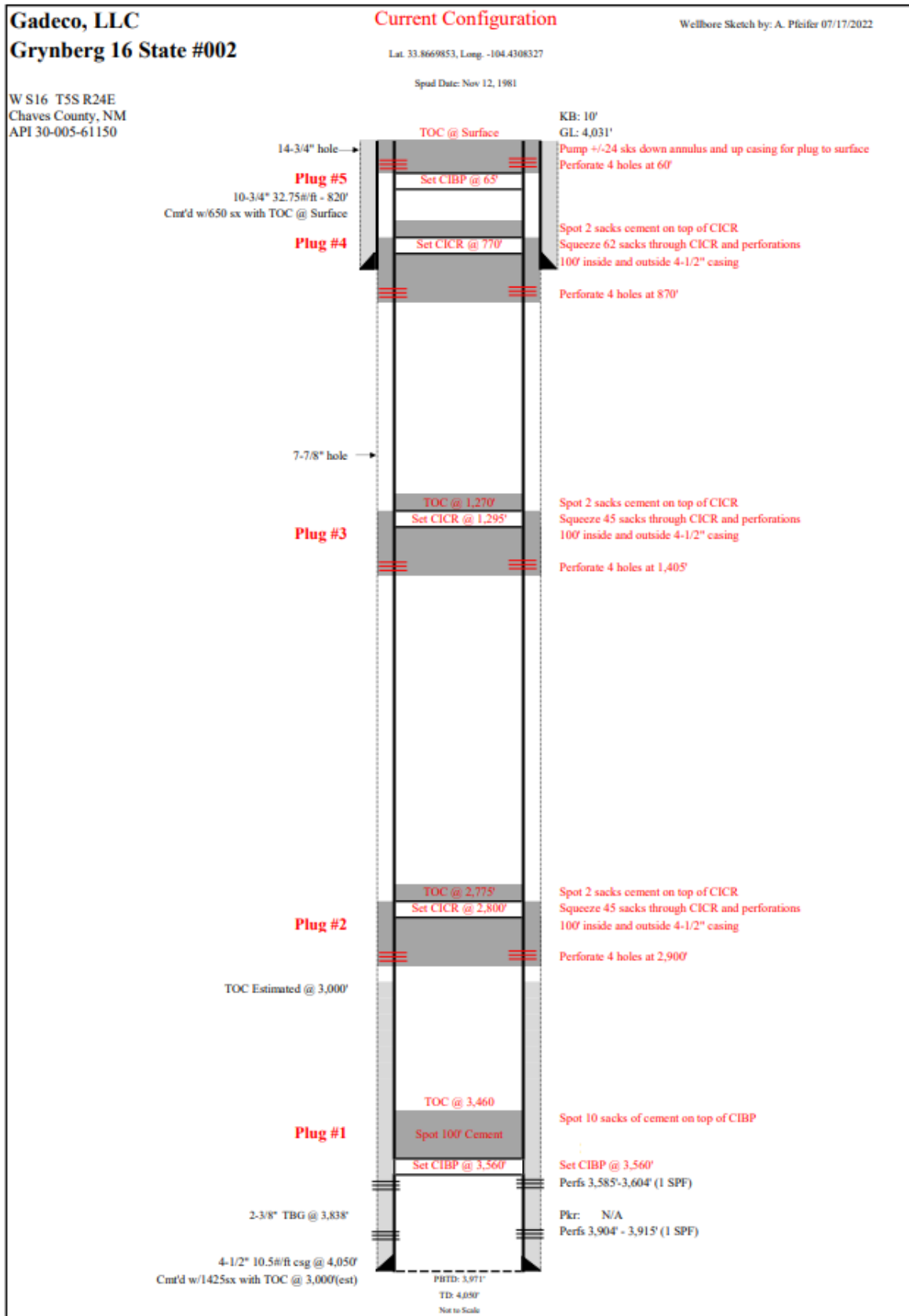
**PROCEDURE:**

- 1) MIRU cement equipment. **Note that all cement calculations for required sacks of cement already account for the required 100% excess in open hole cement plugs and 50' excess in cased hole cement plugs.**
- 2) Plug #1 – Isolate the producing perforations at 3,585'.
  - a. MU CIBP.
  - b. TIH and set CIBP at 3,560' (25' above perforations at 3,585'). **Test 500psi / 30 min. - Bubble Test**
  - c. Mix ~~10~~ sacks of Class C cement (100' of cement) and spot on top of CIBP. **25 sx cmt**
  - d. TOH 4 stands of tubing. WOC.
  - e. TIH and tag TOC. Record depth.
  - f. Circulate hole clean. ~~Pressure test CIBP to 500 psi for 15 minutes.~~
  - g. TOH w/ work string standing back 2,850' in the derrick and laying down the rest.
- 3) MIRU wireline. RIH with WL and perform CBL from 3,350' to surface.
- 4) With WL still rigged up, perforate the 4-1/2" casing with 4 shots at the following plugging depths:
  - a. Plug #2: Perforate at 2,900' (this may shift after the CBL is ran).
  - b. Plug #3: Perforate at 1,405'.
  - c. Plug #4: Perforate at 870'. **do not perforate all zones at same time**
  - d. Plug #5: Perforate at 60'. **bubble test after each cement squeeze**
- 5) Plug #2 – Isolate 100' above 4-1/2" casing TOC. **This depth is estimated. Once the CBL is ran and actual TOC is determined, adjust the following depths as necessary.**
  - a. Assuming 4-1/2" casing TOC is at 3,000' based of the well file. **Bottom of cmt must be at 3050' inside csg**
  - b. MU CICR. TIH and set at 2,800'.
  - c. Mix 47 sacks of Class C cement. Displace 45 sacks of cement through CICR down to perforations and up the 4-1/2" casing annulus. This will cover the required 100' inside and 100' outside of the 4-1/2" casing. **WOC & Tag**
  - d. Sting out of CICR and spot the remaining 2 sacks of cement on top of CICR.
  - e. TOH and LD tubing to 1,550' and then stand back the remaining work string in the derrick.
- 6) Plug #3 – Isolate the Glorieta formation w/ 100' plug across the formation top at 1,355'.
  - a. MU CICR to work string and TIH.
  - b. Set CICR at 1,295'.
  - c. Mix 47 sacks of Class C cement. Displace 45 sacks of cement through CICR down to perforations and up the 4-1/2" casing annulus. This will cover the required 100' inside and 100' outside of the 4-1/2" casing. **WOC & Tag**
  - d. Sting out of CICR and spot the remaining 2 sacks of cement on top of CICR.
  - e. TOH and LD tubing to 1,000' and then stand back the remaining work string in the derrick.
- 7) Plug #4 – Surface casing shoe isolation.
  - a. MU CICR to work string and TIH.
  - b. Set CICR at 770'.
  - c. Mix 64 sacks of Class C Cement. Displace 62 sacks of cement through the CICR down through the perforations and up the 10-3/4" x 4-1/2" annulus. This will cover the required 100' inside and outside of the 4-1/2" casing. **WOC & Tag**
  - d. Sting out of CICR and spot the remaining 2 sacks of cement on top of CICR.
  - e. TOH and LD work string.
- 8) Plug #5 – Plug to surface.

- a. MU CIBP to work string and TIH.
  - b. Set CIBP at ~~0~~'. cmt from 200' - surface
  - c. TOH and LD work string.
  - d. Mix and pump +/- 24 sacks Class C cement down the 10-1/2" x 4-1/2" annulus through the perforations and circulate cement to surface filling both the annulus and production casing with cement.
  - e. Shut well in and WOC. RDMO pulling unit and cement equipment.
- 9) Cut off the wellhead at least 4' below surface. Verify cement in annulus and production casing. Take pictures for documentation.
- a. ~~For below marker, the top of the casing must be fitted with a screw cap or steel plate welded in place with a weep hole.~~
  - b. The marker must have a marker that is inscribed with well's legal locations, well name, number, and API number and take pictures for documentation.
- 10) Once well is plugged and abandoned, remove all surface processing and storage equipment.
- 11) Conduct pad reclamation per NMOCD. See separate procedure.

**CURRENT DOWNHOLE CONFIGURATION:**



**PROPOSED DOWNHOLE CONFIGURATION:**

## CONDITIONS FOR PLUGGING AND ABANDONMENT

### OCD - Southern District

The following is a guide or checklist in preparation of a plugging program, this is not all inclusive and care must be exercised in establishing special plugging programs in unique and unusual cases, **Notify NMOCD District Office II at (575)-748-1283 at least 24 hours before beginning work. After MIRU rig will remain on well until it is plugged to surface. OCD is to be notified before rig down. Company representative will be on location during plugging procedures.**

1. A notice of intent to plug and abandon a wellbore is required to be approved before plugging operations are conducted. A cement evaluation tool is required in order to ensure isolation of producing formations, protection of water and correlative rights. A cement bond log or other accepted cement evaluation tool is to be provided to the division for evaluation if one has not been previously run or if the well did not have cement circulated to surface during the original casing cementing job or subsequent cementing jobs. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
2. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to a permitted disposal location.
3. Trucking companies being used to haul oilfield waste fluids to a disposal – commercial or private – shall have an approved NMOCD C-133 permit. A copy of this permit shall be available in each truck used to haul waste products. It is the responsibility of the operator as well as the contractor, to verify that this permit is in place prior to performing work. Drivers shall be able to produce a copy upon request of an NMOCD Field inspector.
4. Filing a subsequent C-103 will serve as notification that the well has been plugged.
5. A final C-103 shall be filed (and a site inspection by NMOCD Inspector to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to Meet NMOCD standards) before bonding can be released.
6. If work has not begun within 1 Year of the approval of this procedure, an extension request must be file stating the reason the well has not been plugged.
7. Squeeze pressures are not to exceed 500 psi, unless approval is given by NMOCD.
8. Produced water **will not** be used during any part of the plugging operation.
9. Mud laden fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
10. All cement plugs will be a minimum of 100' in length or a minimum of 25 sacks of cement, whichever is greater. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
11. Class 'C' cement will be used above 7500 feet.
12. Class 'H' cement will be used below 7500 feet.
13. A cement plug is required to be set 50' above and 50' below, casing stubs, DV tools, attempted casing cut offs, cement tops outside casing, salt sections and anywhere the casing is perforated, these plugs require a 4 hour WOC and then will be tagged
14. All Casing Shoes Will Be Perforated 50' below shoe depth and Attempted to be Squeezed, cement needs to be 50' above and 50' Below Casing Shoe inside the Production Casing.

16. When setting the top out cement plug in production, intermediate and surface casing, wellbores should remain full at least 30 minutes after plugs are set
17. A CIBP is to be set within 100' of production perforations, capped with 100' of cement, WOC 4 hours and tag.
18. A CIBP with 35' of cement may be used in lieu of the 100' plug if set with a bailer. This plug will be placed within 100' of the top perforation, (WOC 4 hrs and tag).
19. No more than 3000' is allowed between cement plugs in cased hole and 2000' in open hole.
20. Some of the Formations to be isolated with cement plugs are: These plugs to be set to isolate formation tops
  - A) Fusselman
  - B) Devonian
  - C) Morrow
  - D) Wolfcamp
  - E) Bone Springs
  - F) Delaware
  - G) Any salt sections
  - H) Abo
  - I) Glorieta
  - J) Yates.
  - K) Potash---(In the R-111-P Area (Page 3 & 4), a solid cement plug must be set across the salt section. Fluid used to mix the cement shall be saturated with the salts that are common to the section penetrated and in suitable proportions, not more than 3% calcium chloride (by weight of cement) will be considered the desired mixture whenever possible, WOC 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
21. If cement does not exist behind casing strings at recommended formation depths, the casing can be cut and pulled with plugs set at recommended depths. If casing is not pulled, perforations will be shot and cement squeezed behind casing, WOC and tagged. These plugs will be set 50' below formation bottom to 50' above formation top inside the casing

#### DRY HOLE MARKER REQUIREMENTS

The operator shall mark the exact location of the plugged and abandoned well with a steel marker not less than four inches in diameter, 3' below ground level with a plate of at least ¼" welded to the top of the casing and the dry hole marker welded on the plate with the following information welded on the dry hole marker:

1. Operator name 2. Lease and Well Number 3. API Number 4. Unit Letter 5. Quarter Section (feet from the North, South, East or West) 6. Section, Township and Range 7. Plugging Date 8. County (SPECIAL CASES)-----AGRICULTURE OR PRARIE CHICKEN BREEDING AREAS

In these areas, a below ground marker is required with all pertinent information mentioned above on a plate, set 3' below ground level, a picture of the plate will be supplied to NMOCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to NMOCD (We typically require a current survey to verify the GPS)

#### SITE REMEDIATION DUE WITHIN ONE YEAR OF WELL PLUGGING COMPLETION



## R-111-P Area

### T 18S – R 30E

Sec 10 Unit P. Sec 11 Unit M,N. Sec 13 Unit L,M,N. Sec 14 Unit C -P. Sec 15 Unit A G,H,I,J,K,N,O,P. Sec 22 Unit All except for M. Sec 23, Sec 24 Unit C,D,E,L, Sec 26 Unit A-G, Sec 27 Unit A,B,C

### T 19S – R 29E

Sec 11 Unit P. Sec 12 Unit H-P. Sec 13. Sec 14 Unit A,B,F-P. Sec 15 Unit P. Sec 22 Unit A,B,C,F,G,H,I,J K,N,O,P. Sec 23. Sec 24. Sec 25 Unit D. Sec 26 Unit A- F. Sec 27 Unit A,B,C,F,G,H.

### T 19S – R 30E

Sec 2 Unit K,L,M,N. Sec 3 Unit I,L,M,N,O,P. Sec 4 Unit C,D,E,F,G,I-P. Sec 5 Unit A,B,C,E-P. Sec 6 Unit I,O,P. Sec 7 – Sec 10. Sec 11 Unit D, G—P. Sec 12 Unit A,B,E-P. Sec 13 Unit A-O. Sec 14-Sec 18. Sec 19 Unit A-L, P. Sec 20 – Sec 23. Sec 24 Unit C,D,E,F,L,M,N. Sec 25 Unit D. Sec 26 Unit A-G, I-P. Sec 27, Sec 28, Sec 29 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 32 Unit A,B,G,H,I,J,N,O,P. Sec 33. Sec 34. Sec 35. Sec 36 Unit D,E,F,I-P.

### T 19S – R 31E

Sec 7 Unit C,D,E,F,L. Sec 18 Unit C,D,E,F,G,K,L. Sec 31 Unit M. Sec 34 Unit P. Sec 35 Unit M,N,O. Sec 36 Unit O,P.

### T 20S – R 29E

Sec 1 Unit H,I,P. Sec 13 Unit E,L,M,N. Sec 14 Unit B-P. Sec 15 Unit A,H,I,J,N,O,P. Sec 22 Unit A,B,C,F,G,H,I,J,O,P. Sec 23. Sec 24 Unit C,D,E,F,G,J-P. Sec 25 Unit A-O. Sec 26. Sec 27 Unit A,B,G,H,I,J,O,P. Sec 34 Unit A,B,G,H. Sec 35 Unit A-H. Sec 36 Unit B-G.

### T 20S – R 30E

Sec 1 – Sec 4. Sec 5 Unit A,B,C,E-P. Sec 6 Unit E,G-P. Sec 7 Unit A-H,I,J,O,P. Sec 8 – 17. Sec 18 Unit A,B,G,H,I,J,O,P. Sec 19 Unit A,B,G,H,I,J,O,P. Sec 20 – 29. Sec 30 Unit A-L,N,O,P. Sec 31 Unit A,B,G,H,I,P. Sec 32 – Sec 36.

### T 20S – R 31E

Sec 1 Unit A,B,C,E-P. Sec 2. Sec 3 Unit A,B,G,H,I,J,O,P. Sec 6 Unit D,E,F,J-P. Sec 7. Sec 8 Unit E-P. Sec 9 Unit E,F,J-P. Sec 10 Unit A,B,G-P. Sec 11 – Sec 36.

### T 21S – R 29E

Sec 1 – Sec 3. Sec 4 Unit L1 – L16,I,J,K,O,P. Sec 5 Unit L1. Sec 10 Unit A,B,H,P. Sec 11 – Sec 14. Sec 15 Unit A,H,I. Sec 23 Unit A,B. Sec 24 Unit A,B,C,D,F,G,H,I,J,O,P. Sec 25 Unit A,O,P. Sec 35 Unit G,H,I,J,K,N,O,P. Sec 36 A,B,C,F – P.

### T 21S – R 30E

Sec 1 – Sec 36

### T 21S – R 31E

Sec 1 – Sec 36

### T 22S – R 28E

Sec 36 Unit A,H,I,P.

**T 22S – R 29E**

Sec 1. Sec2. Sec 3 Unit I,J,N,O,P. Sec 9 Unit G – P. Sec 10 – Sec 16. Sec 19 Unit H,I,J. Sec 20 – Sec 28. Sec 29 Unit A,B,C,D,G,H,I,J,O,P. Sec 30 Unit A. Section 31 Unit C – P. Sec 32 – Sec 36

**T 22S – R 30E**

Sec 1 – Sec 36

**T 22S – R 31E**

Sec 1 – Sec 11. Sec 12 Unit B,C,D,E,F,L. Sec 13 Unit E,F,K,L,M,N. Sec 14 – Sec 23. Sec 24 Unit C,D,E,F,K,L,M,N. Sec 25 Unit A,B,C,D. Sec 26 Unit A,BC,D,G,H. Sec 27 – Sec 34.

**T 23S – R 28E**

Sec 1 Unit A

**T 23S – R 29E**

Sec 1 – Sec 5. Sec 6 Unit A – I, N,O,P. Sec 7 Unit A,B,C,G,H,I,P. Sec 8 Unit A – L, N,O,P. Sec 9 – Sec 16. Sec 17 Unit A,B,G,H,I,P. Sec 21 – Sec 23. Sec 24 Unit A – N. Sec 25 Unit D,E,L. Sec 26. Sec 27. Sec 28 Unit A – J, N,O,P. Sec 33 Unit A,B,C. Sec 34 Unit A,B,C,D,F,G,H. Sec 35. Sec 36 Unit B,C,D,E,F,G,K,L.

**T 23S – R 30E**

Sec 1 – Sec 18. Sec 19 Unit A – I,N,O,P. Sec 20, Sec 21. Sec 22 Unit A – N, P. Sec 23, Sec 24, Sec 25. Sec 26 Unit A,B,F-P. Sec 27 Unit C,D,E,I,N,O,P. Sec 28 Unit A – H, K,L,M,N. Sec 29 Unit A – J, O,P. Sec 30 Unit A,B. Sec 32 A,B. Sec 33 Unit C,D,H,I,O,P. Sec 34, Sec 35, Sec 36.

**T 23S – R 31E**

Sec 2 Unit D,E,J,O. Sec 3 – Sec 7. Sec 8 Unit A – G, K – N. Sec 9 Unit A,B,C,D. Sec 10 Unit D,P. Sec 11 Unit G,H,I,J,M,N,O,P. Sec 12 Unit E,L,K,M,N. Sec 13 Unit C,D,E,F,G,J,K,L,M,N,O. Sec 14. Sec 15 Unit A,B,E – P. Sec 16 Unit I, K – P. Sec 17 Unit B,C,D,E, I – P. Sec 18 – Sec 23. Sec 24 Unit B – G, K,L,M,N. Sec 25 Unit B – G, J,K,L. Sec 26 – Sec 34. Sec 35 Unit C,D,E.

**T 24S – R 29E**

Sec 2 Unit A, B, C, D. Sec 3 Unit A

**T 24S – R 30E**

Sec 1 Unit A – H, J – N. Sec 2, Sec 3. Sec 4 Unit A,B,F – K, M,N,O,P. Sec 9 Unit A – L. Sec 10 Unit A – L, O,P. Sec 11. Sec 12 Unit D,E,L. Sec 14 Unit B – G. Sec 15 Unit A,B,G,H.

**T 24S – R 31E**

Sec 3 Unit B – G, J – O. Sec 4. Sec 5 Unit A – L, P. Sec 6 Unit A – L. Sec 9 Unit A – J, O,P. Sec 10 Unit B – G, K – N. Sec 35 Unit E – P. Sec 36 Unit E,K,L,M,N.

**T 25S – R 31E**

Sec 1 Unit C,D,E,F. Sec 2 Unit A – H.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
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**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 131908

CONDITIONS

|   |   |
|---|---|
| Operator:<br>JACK J. GRYNBERG<br>C/O 3773 Cherry Creek N. Drive<br>Denver, CO 80202 | OGRID:<br>11492                                     |
|   | Action Number:<br>131908                            |
|   | Action Type:<br>[C-103] NOI Plug & Abandon (C-103F) |

CONDITIONS

|            |           |                |
|------------|-----------|----------------|
| Created By | Condition | Condition Date |
| gcordero   | None      | 8/11/2022      |