

Submit 1 Copy To Appropriate District

## Office

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 ResourcesForm C-103  
Revised July 18, 2013OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

WELL API NO.

30-045-26813

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil &amp; Gas Lease No.

V0-1509

7. Lease Name or Unit Agreement Name

Mary Lou

8. Well Number

5

9. OGRID Number

006515

10. Pool name or Wildcat

Bisti Gallup, South (005860)

## SUNDRY NOTICES AND REPORTS ON WELLS

(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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator

Dugan Production Corp.

3. Address of Operator

PO Box 420, Farmington, NM 87499-0420

4. Well Location

Unit Letter K : 1980 feet from the South line and 1980 feet from the West lineSection 32 Township 24N Range 10W NMPM San Juan County

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6603' GL

## 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 ☐OTHER: ☐

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.

Dugan Production plans to plug and abandon the well per the attached procedure.

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 Aliph Reena TITLE Engineering Supervisor DATE 4/28/25Type or print name Aliph Reena, P.E. E-mail address: aliph.reena@duganproduction.com PHONE: 505-325-1821**For State Use Only**

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

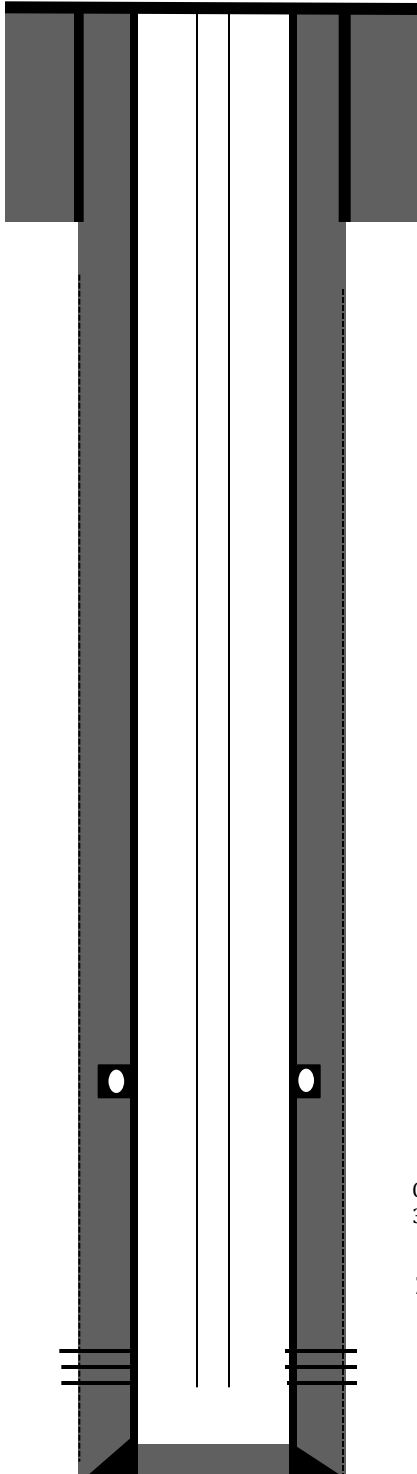
Conditions of Approval (if any):

Dugan Production plans to plug and abandon the well per the following procedure:

- POOH & LD rods & 2-3/8" production tubing.
- PU & tally 2-3/8" workstring. Run 4½" casing scraper to 4420'. RIH & set 4½" CIBP @ 4375'. Gallup perforations @ 4425'-4672'.
- Load and circulate hole and Run CBL from 4375' to surface. All plugs are designed assuming cement behind casing to surface. Will make necessary changes to the plugs after reviewing the CBL.
- **Plug I:** Spot Plug I inside 4½" casing from 4375' on top of the CIBP to cover till 3627' w/40 sks (46 cu ft) Class G cement to cover the Mancos, DV tool, Gallup top & Gallup perforations. **Plug I, Inside 4½" casing, 40 sks, 46 cu ft, Mancos-DV tool-Gallup top-Gallup perforations, 3627'-4375'.**
- **Plug II:** Spot Plug II inside 4½" casing from 1903' to 1278' w/50 sks, 57.5 cu ft Class G cement to cover the Mesaverde, Lower Chacra & Upper Chacra tops. **Plug II, Inside 4½" casing, 50 sks, 57.5 cu ft, Mesaverde-Lower Chacra-Upper Chacra, 1278'-1903'.**
- **Plug III:** Spot Plug III inside 4½" casing from 1089' to 597' w/40 sks, 46 cu ft Class G cement to cover the Pictured Cliffs-Fruitland tops. **Plug III, Inside 4½" casing, 40 sks, 46 cu ft, Pictured Cliffs-Fruitland, 597'-1089'.**
- **Plug IV:** Spot Plug IV inside 4½" casing from 314' to surface w/26 sks, 29.9 cu ft Class G neat cement to cover the Kirtland top & Surface casing shoe. **Plug IV, Inside 4½" casing, 26 sks, 29.9 cu ft, Kirtland-Surface, 0'-314'.**
- Cut wellhead. Tag TOC at surface. Fill cement in case needed.
- Install dry hole marker. Clean location.

**Current Wellbore Schematic**

Mary Lou #5  
API: 30-045-26813  
Sec 32 T24N R10W  
1980' FSL & 1980' FWL  
San Juan County, NM  
Lat: 36.268058, Long: -107.921343



8-5/8" J-55 24# casing @ 223'. Cemented with 135 sks, 159 Cu.ft.  
Circulated 2 bbls cement to surface

Cemented Stage I w/ 210 sks 50/50 poz, 267 Cu.ft. **DV tool @ 3757'**. Stage II w/ 535 sks 65-35-12 & 50 sks Poz, 1246 Cu.ft. Total 1513 cement.

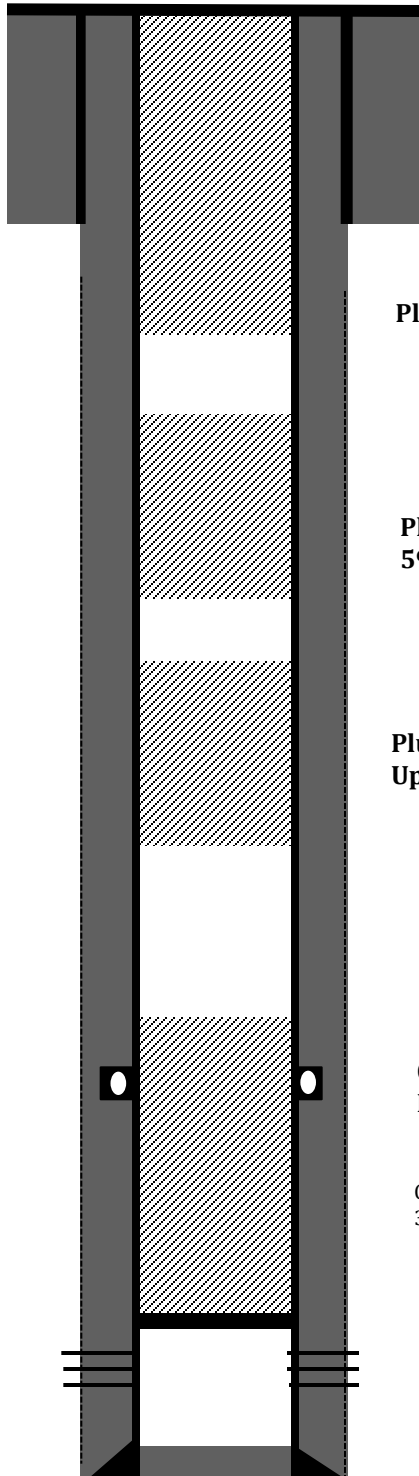
**2-3/8", J-55 tubing EOT at 4712'**

**Gallup Perforated @ 4425'-4672'**

**4 1/2" 10.5 # casing @ 4810', Hole size 7-7/8"**

**Planned P & A Schematic**

Mary Lou #5  
 API: 30-045-26813  
 Sec 32 T24N R10W  
 1980' FSL & 1980' FWL  
 San Juan County, NM  
 Lat: 36.268058, Long: -107.921343



8-5/8" J-55 24# casing @ 223'. Cemented with 135 sks, 159 Cu.ft.  
 Circulated 2 bbls cement to surface

**Plug IV, Inside 4 ½" casing, 26 sks, 29.9 Cu.ft, Kirtland-Surface, 0'-314'**

**Plug III, Inside 4 ½" casing, 40 sks, 46 Cu.ft, Pictured Cliffs-Fruitland, 597'-1089'**

**Plug II, Inside 4 ½" casing, 50 sks, 57.5 Cu.ft, Mesaverde-Lower Chacra-Upper Chacra, 1278'-1903'**

**CIBP @ 4375'. Plug I, Inside 4 ½" casing, 40 sks, 46 Cu.ft, Mancos-DV tool-Gallup top-Gallup perforations, 3627'-4375'**

Cemented Stage I w/ 210 sks 50/50 poz, 267 Cu.ft. **DV tool @ 3757'**. Stage II w/ 535 sks 65-35-12 & 50 sks Poz, 1246 Cu.ft. Total 1513 cement.

**Gallup Perforated @ 4425'-4672'**

**4 ½" 10.5 # casing @ 4810', Hole size 7-7/8"**

**Mary Lou #5**

API: 30-045-26813

Sec 32 T24N R10W

1980' FSL & 1980' FWL

San Juan County, NM

Lat: 36.268058, Long: -107.921343

**Elevation ASL : 6603' GL, 6615' KB**

**Formation Tops (Operator Submitted)**

- *Surface Casing* - 223'
- **Kirtland** - 264'
- **Fruitland** - 697'
- **Pictured Cliffs** - 1039'
- **Lewis** - 1200'
- **Upper Chacra** - 1378'
- **Lower Chacra** - 1620'
- **Mesaverde** - 1853'
- *Mancos* - 3727'
- *DV tool* - 3757'
- **Gallup** - 3982'
- **Gallup Perfs** - 4425'-4672'

**State of New Mexico**  
**Energy, Minerals and Natural Resources Department**  
**Oil Conservation Division**  
**Standard Plugging Conditions**



This document provides OCD's general plugging conditions of approval. It should be noted that the list below may not cover special plugging programs in unique and unusual cases, and OCD expressly reserves the right to impose additional requirements to the extent dictated by project conditions. The OCD also reserves the right to approve deviations from the below conditions if field conditions warrant a change. A C-103F NOI to P&A must be approved prior to plugging operations. Failure to comply with the conditions attached to a plugging approval may result in a violation of 19.15.5.11 NMAC, which may result in enforcement actions, including but not limited to penalties and a requirement that the well be re-plugged as necessary.

1. Notify OCD office at least 24 hours before beginning work and seek prior approval to implementing any changes to the C-103 NOI to PA.
  - North Contact, Monica Kuehling, 505-320-0243, [monica.kuehling@emnrd.nm.gov](mailto:monica.kuehling@emnrd.nm.gov)
  - South Contact, Gilbert Cordero, 575-626-0830, [gilbert.cordero@emnrd.nm.gov](mailto:gilbert.cordero@emnrd.nm.gov)
2. A Cement Bond Log is required to ensure strata isolation of producing formations, protection of water and correlative rights. A CBL must be run or be on file that can be used to properly evaluate the cement behind the casing.

Note: Logs must be submitted to OCD via OCD permitting. A copy of the log may be emailed to OCD inspector for faster review times, but emailing does not relieve the operators obligation to submit through OCD permitting.

3. Once Plugging operations have commenced, the rig must not rig down until the well is fully plugged without OCD approval. If gap in plugging operations exceeds 30 days, the Operator must file a subsequent sundry of work performed and revised NOI for approval on work remaining. At no time shall the rig be removed from location if it will result in waste or contamination of fresh water.
4. Insure all bradenheads have been exposed, identified and valves are operational prior to rig up.
5. Fluids must be placed between all cement plugs mixed at 25 sacks per 100 bbls of water.
  - North, water or mud laden fluids
  - South, mud laden fluids
6. Closed loop system is to be used for entire plugging operation. Upon completion, contents of steel pits are to be hauled to an OCD permitted disposal facility.
7. Class of cement shall be used in accordance with the below table for depth allowed.

| Class          | TVD Lower Limit (feet) |
|----------------|------------------------|
| Class A/B      | 6,000                  |
| Class I/II     | 6,000                  |
| Class C or III | 6,000                  |
| Class G and H  | 8,000                  |
| Class D        | 10,000                 |

|         |        |
|---------|--------|
| Class E | 14,000 |
| Class F | 16,000 |

8. After cutting the well head any "top off cement jobs" must remain static for 30 minutes. Any gas bubbles or flow during this 30 minutes shall be reported to the OCD for approval of next steps.
9. Trucking companies being used to haul oilfield waste fluids (Commercial or Private) to a disposal facility shall have an approved OCD 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 and 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 OCD Compliance Officer.
10. Filing a [C-103] Sub. Plugging (C-103P) will serve as notification that the well has been plugged.
11. A [C-103] Sub. Release After P&A (C-103Q) shall be filed no later than a year after plugging and a site inspection by OCD Compliance officer to determine if the location is satisfactorily cleaned, all equipment, electric poles and trash has been removed to meet OCD standards before bonding can be released.
12. Produced water or brine-based fluids **may not** be used during any part of plugging operations without **prior OCD approval**.
13. Cementing;
  - All cement plugs will be neat cement and a minimum of 100' in length. 50' of calculated cement excess required for inside casing plugs and 100% calculated cement excess required on outside casing plugs.
  - If cement does not exist between or behind the casing strings at recommended formation depths, the casing perforations will be shot at 50' below the formation top and the cement retainer shall be set no more than 50' from the perforations.
  - WOC (Wait on Cement) time will be:
    - 4 hours for accelerated (calcium chloride) cement.
    - 6 hours on regular cement.
  - Operator must tag all cement plugs unless it meets the below condition.
    - The operator has a passing pressure test for the casing annulus and the plug is only an inside plug.
  - If perforations are made operator must tag all plugs using the work string to tag unless given approval to tag with wireline by the correct contact from COA #1 of this document.
    - This includes plugs pumped underneath a cement retainer to ensure retainer seats properly after cement is pumped.
  - Cement can only be bull-headed with specific prior approval.
  - Squeeze pressures are not to exceed the exposed formations frac gradient or the burst pressure of the casing.
14. A cement plug is required to be set from 50' below to 50' above (straddling) formation tops, casing shoes, casing stubs, any attempted casing cut offs, anywhere the casing is perforated, DV tools.
  - Perforation/Formation top plug. (When there is less than 100ft between the top perforation to the formation top.) These plugs are required to be started no greater than

50ft from the top perforation. However, the plug should be set below the formation top or as close to the formation top as possible for the maximum isolation between the formations. The plug is required to be a 100ft cement plug plus excess.

- Perforation Plug when a formation top is not included. These plugs are required to be started within 50ft of the top perforation. The plug is required to be a 100ft cement plug plus excess.
- Cement caps on top of bridge plugs or cement retainers for perforation plugs, that are not straddling a formation top, may be set using a bailer with a minimum of 35' of cement in lieu of the 100' plug. The bridge plug or retainer must be set within 50ft of the perforations.
- Perforations are required below the surface casing shoe if cement does not exist behind the casing, a 30-minute minimum wait time will be required immediately after perforating to determine if gas and/or water flows are present. If flow is present, the well will be shut-in for a minimum of one hour and the pressure recorded. If gas is detected contact the OCD office for directions.

15. No more than 3000 feet is allowed between cement plugs in cased hole and no more than 2000 feet is allowed in open hole.

16. Formation Tops to be isolated with cement plugs, but not limited to are:

- Northwest See Figure A
- South (Artesia) See Figure B
- Potash See Figure C
  - In the R-111-P (Or as subsequently revised) Area 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, woe 4 hours and tag, this plug will be 50' below the bottom and 50' above the top of the Formation.
- South (Hobbs) See Figure D1 and D2
- Areas not provided above will need to be reviewed with the OCD on a case by case basis.

17. Markers

- Dry hole marker requirements 19.15.25.10.  
The operator shall mark the exact location of plugged and abandoned wells with a steel marker not less than four inches in diameter set in cement and extending at least four feet above mean ground level. The marker must include the below information:
  1. Operator name
  2. Lease name and well number
  3. API number
  4. Unit letter
  5. Section, Township and Range
- AGRICULTURE (Below grade markers)  
In Agricultural areas a request can be made for a below ground marker. For a below ground marker the operator must file their request on a C-103 notice of intent, and it must include the following;
  - A) Aerial photo showing the agricultural area
  - B) Request from the landowner for the below ground marker.

C) Subsequent plugging report for a well using a below ground marker must have an updated C-102 signed by a certified surveyor for SHL.

Note: 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 OCD for record, the exact location of the marker (longitude and latitude by GPS) will be provided to OCD. OCD requires a current survey to verify the location of the below ground marker, however OCD will accept a GPS coordinate that were taken with a GPS that has an accuracy of within 15 feet.

18. If work has not commenced within 1 year of the approval of this procedure, the approval is automatically expired. After 1 year a new [C-103] NOI Plugging (C-103F) must be submitted and approved prior to work.

Figure A

North Formations to be isolated with cement plugs are:

- San Jose
- Nacimiento
- Ojo Alamo
- Kirtland
- Fruitland
- Picture Cliffs
- Chacra (if below the Chacra Line)
- Mesa Verde Group
- Mancos
- Gallup
- Basin Dakota (plugged at the top of the Graneros)
- Deeper formations will be reviewed on a case-by-case basis

Figure B

South (Artesia) Formations to be isolated with cement plugs are:

- Fusselman
- Montoya
- Devonian
- Morrow
- Strawn
- Atoka
- Permo-Penn
- Wolfcamp
- Bone Springs
- Delaware , in certain areas where the Delaware is subdivided into;
  - 1. Bell Canyon
  - 2. Cherry Canyon
  - 3. Brushy Canyon
- Any salt sections
- Abo
- Yeso
- Glorieta
- San Andres
- Greyburg
- Queen
- Yates

Figure C

## Potash Area R-111-P

## 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.

Figure D1 and D2

South (Hobbs) Formations to be isolated with cement plugs are:

The plugging requirements in the Hobbs Area are based on the well location within specific areas of the Area (See Figure D1). The Formations in the Hobbs Area to be isolated with cement plugs are (see Figure D2)

Figure D1 Map

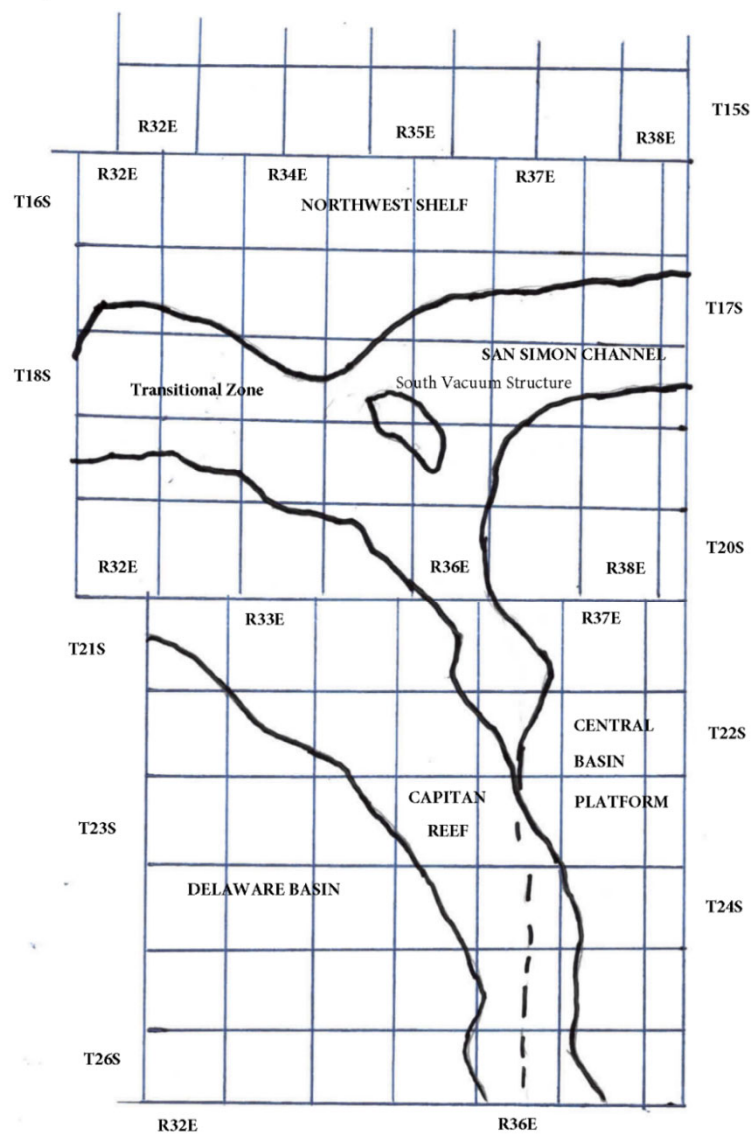


Figure D2 Formation Table

| 100' Plug to isolate upper and lower fresh water zones (typically 250' to 350')   |                      |                     |                   |                        |                                                   |                                                                                                                        |
|-----------------------------------------------------------------------------------|----------------------|---------------------|-------------------|------------------------|---------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Northwest Shelf                                                                   | Captan Reef Area     | Transition Zone     | San Simon Channel | South Vacuum Structure | Delaware Basin                                    | Central Basin Platform                                                                                                 |
| Granit Wash (Detrital basement material and fractured pre-Cambrian basement rock) | Siluro-Devonian      | Morrow              | Siluro-Devonian   | Ellenburger            | Siluro-Devonian                                   | Granit Wash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives). |
| Montoya                                                                           | Mississippian        | Atoka               | Morrow            | McKee                  | Morrow                                            | Ellenburger                                                                                                            |
| Fusselman                                                                         | Morrow               | Strawn              | Wolfcamp          | Siluro-Devonian        | Atoka                                             | Connell                                                                                                                |
| Woodford                                                                          | Atoka                | Cisco               | Abo Reef          | Woodford               | Strawn                                            | Waddell                                                                                                                |
| Siluro-Devonian                                                                   | Strawn               | Pennsylvanian       | Bone Spring       | Mississippian          | Pennsylvanian                                     | McKee                                                                                                                  |
| Chester                                                                           | Pennsylvanian        | Wolfcamp            | Delaware          | Barnett Shale          | Lower Wolfcamp                                    | Simpson Group                                                                                                          |
| Austin                                                                            | Wolfcamp             | Bone Spring         | San Andres        | Morrow                 | Upper Wolfcamp                                    | Montoya                                                                                                                |
| Mississippian                                                                     | Abo Reef, if present | Delaware            | Queen             | Atoka                  | Wolfcamp                                          | Fusselman                                                                                                              |
| Morrow                                                                            | Abo, if present      | San Andres          | Yates             | Strawn                 | Third Bone Spring Sand (Top of Wolfbone)          | Silurian                                                                                                               |
| Atoka                                                                             | Queen, if present    | Grayburg-San Andres | Base of Salt      | Canyon                 | First Bone Spring Sand (Top of Lower Bone Spring) | Devonian                                                                                                               |
| Lower Pennsylvanian                                                               | Bone Spring          | Queen               | Rustler           | Pennsylvanian          | Bone Spring                                       | Strawn                                                                                                                 |
| Cisco-Canyon                                                                      | Delaware             | Seven Rivers        |                   | Blinbry                | Brushy Canyon                                     | Pennsylvanian                                                                                                          |
| Pennsylvanian                                                                     | Base Capitan Reef    | Yates               |                   | Bone Spring            | Delaware (Base of Salt)                           | Wolfcamp                                                                                                               |
| Bough                                                                             | Seven Rivers         | Base of Salt        |                   | San Andres             | Rustler                                           | Abo                                                                                                                    |
| Wolfcamp                                                                          | Yates                | Rustler             |                   | Queen                  |                                                   | Abo Reef                                                                                                               |
| Abo                                                                               | Top Capitan Reef     |                     |                   | Base of Salt           |                                                   | Drinkard                                                                                                               |
| Abo Reef, if present                                                              | Base of Salt         |                     |                   | Rustler                |                                                   | Tubb                                                                                                                   |
| Yeso (Township 15 South to Township 17 South)                                     | Rustler              |                     |                   |                        |                                                   | Blinbry                                                                                                                |
| Drinkard or Lower Yeso (Township 15 South to Township 17 South)                   |                      |                     |                   |                        |                                                   | Paddock                                                                                                                |
| Tubb (Township 15 South to Township 17 South)                                     |                      |                     |                   |                        |                                                   | Glorieta                                                                                                               |
| Blinbry (Township 15 South to Township 17 South)                                  |                      |                     |                   |                        |                                                   | San Andres                                                                                                             |
| Paddock (Township 15 South to Township 17 South)                                  |                      |                     |                   |                        |                                                   | Grayburg                                                                                                               |
| Glorieta                                                                          |                      |                     |                   |                        |                                                   | Grayburg-San Andres                                                                                                    |
| San Andres                                                                        |                      |                     |                   |                        |                                                   | Queen                                                                                                                  |
| Queen (Township 15 South to Township 17 South)                                    |                      |                     |                   |                        |                                                   | Seven Rivers                                                                                                           |
| Seven Rivers (Township 15 South to Township 17 South)                             |                      |                     |                   |                        |                                                   | Yates                                                                                                                  |
| Yates (Township 15 South to Township 17 South)                                    |                      |                     |                   |                        |                                                   | Base of Salt                                                                                                           |
| Base of Salt                                                                      |                      |                     |                   |                        |                                                   | Rustler                                                                                                                |
| Rustler                                                                           |                      |                     |                   |                        |                                                   |                                                                                                                        |

Sante Fe Main Office  
Phone: (505) 476-3441

General Information  
Phone: (505) 629-6116

Online Phone Directory  
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 456046

CONDITIONS

|                                                                          |                                                     |
|--------------------------------------------------------------------------|-----------------------------------------------------|
| Operator:<br>DUGAN PRODUCTION CORP<br>PO Box 420<br>Farmington, NM 87499 | OGRID:<br>6515                                      |
|                                                                          | Action Number:<br>456046                            |
|                                                                          | Action Type:<br>[C-103] NOI Plug & Abandon (C-103F) |

CONDITIONS

| Created By | Condition                                                                                                                            | Condition Date |
|------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------|
| mkuehling  | Notify NMOCD 24 hours prior to moving on - monitor string pressures daily report on subsequent - submit all logs prior to subsequent | 4/28/2025      |