

Well Name: NATANI	Well Location: T21N / R6W / SEC 4 / NENE / 36.084586 / -107.469167	County or Parish/State: SANDOVAL / NM
Well Number: 18	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name: EASTERN NAVAJO
Lease Number: N00C14205758	Unit or CA Name:	Unit or CA Number:
US Well Number: 300432079500S1	Operator: M & M PRODUCTION & OPERATION	

Notice of Intent

Sundry ID: 2811362

Type of Submission: Notice of Intent	Type of Action: Plug and Abandonment
Date Sundry Submitted: 09/11/2024	Time Sundry Submitted: 09:16
Date proposed operation will begin:	

**Procedure Description:** The Bureau of Land Management Farmington Field Office (BLM FFO) and Federal Indian Minerals Office (FIMO) requested the New Mexico Oil Conservation Division (NM OCD) to plug the well as part of their program. See attached email conversation. Aztec Well Servicing will be the contractor, the procedure is attached. The general plugging requirements for the BLM FFO were provided. The BLM FFO requested to be contacted at least 24 hours before the plugging operations commence so that the work can be witnessed. Phone number 505 564-7750.

Surface Disturbance

Is any additional surface disturbance proposed?: No

Oral Submission

Oral Notification Date:	Sep 11, 2024	Oral Notification Time:	12:00 AM
Contacted By:	Kenneth Rennick	Contact's Email:	krennick@blm.gov

NOI Attachments

Procedure Description

- Natani\_18\_P\_A\_Proposal\_20240911091101.pdf
- Natani\_18\_Geo\_AK\_20240911091101.pdf
- Request\_to\_Plug\_M\_M\_Production\_Operation\_Allottee\_Wells\_NMOCD\_05232024\_20240911091044.pdf

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NENE / 36.084586 / -107.469167

County or Parish/State:  
SANDOVAL / NM

Well Number: 18

Type of Well: CONVENTIONAL GAS  
WELL

Allottee or Tribe Name:  
EASTERN NAVAJO

Lease Number: N00C14205758

Unit or CA Name:

Unit or CA Number:

US Well Number: 300432079500S1

Operator: M & M PRODUCTION &  
OPERATION

BLM Point of Contact

BLM POC Name: KENNETH G RENNICK

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5055647742

BLM POC Email Address: krennick@blm.gov

Disposition: Approved

Disposition Date: 09/11/2024

Signature: Kenneth Rennick

Current WBD  
Natani #18  
API: 30-043-20795  
04-21N-06W  
GL 6910'

SURF CSG:

Hole size: 9"  
Csg size: 7"  
Wt: 23#  
Grade  
ID: 6.366"  
Depth: 99'  
Cap cf/ft: 0.221  
TOC: surface

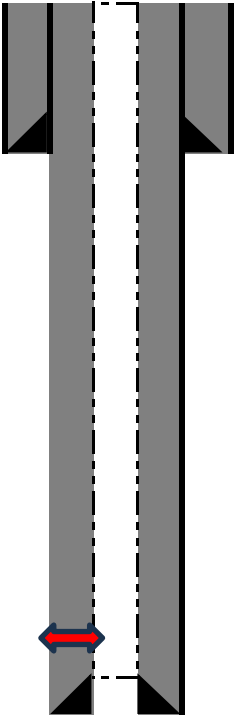
FORM TOPS:

Nacimiento Top: surface  
Ojo Alamo Top: 675'  
Kirtland Top: 728'  
Fruitland Top: 857'  
Picture Cliffs Top: 1146'  
Chacra Top: 1525'  
Mesa Verde Top:  
Mancos Top:  
Gallup Top:  
Dakota Top:

PROD CSG:

Hole size: 6.5"  
Csg size: 2-7/8"  
Wt: 6.5#  
Grade  
ID: 2.441"  
Depth: 1787'  
Cap cf/ft: 0.0325  
Csg/OH Ann:  
Csg/OH Ann, cf/ft:  
TOC: surface

PERFS: 1546' - 1654'  
PBD: 1747'  
TD: 1800'



Plugging Information

Class G cmt used mixed @ 15.8 ppg, yield 1.15 cuft/sx  
Regulatory representative:  
Marker GPS Coordinates:



**NMOCD**  
**Plug & Abandon Procedure**  
 August 1, 2024

<b>Well:</b>	Natani #18	<b>API:</b>	30-043-20795
<b>Location:</b>	790' FNL & 850' FWL	<b>Field:</b>	
<b>Sec,T, R:</b>	Sec 04 21N-06W	<b>Elevation:</b>	GL: 6910'
<b>Cnty/State:</b>	Sandoval, New Mexico	<b>By:</b>	Aztec Well Servicing
<b>Lat/Long:</b>	36.0845871, - 107.4691544		

Objective:

Permanently plug & abandon the well from 1747' containing 1 cement plugs.

Note:

All cement volumes use 100% excess outside casing and 50' excess inside pipe. Stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be ASTM Class G neat 15.8ppg, 1.15ft<sup>3</sup>/ft yield, 5.0gal/sk or equivalent. If casing pressure tests tagging plugs will not be required.

Prior to Rig:

1. Notify NMOCD and BLM
2. Note: verify all cement volumes based on actual slurry to be pumped.
3. See attached COA's from NMOCD and BLM.

Procedure:

1. MIRU well servicing rig and cement equipment.
2. Check casing, tubing, and BH pressures.
3. Removed existing piping on casing valve. RU blow lines from casing valves and begin blowing down casing pressure. Kill well as necessary. Ensure well is dead or on a vacuum.
4. ND wellhead and NU BOP. Function test BOP. RU floor and 1-1/4" handling tools.
5. RU WL and RIH with gauge ring, then RIH CIBP and set @ 1496'.
6. Roll the hole with fresh water and pressure test casing to 500 psi. If casing does not test, then spot or tag subsequent plugs as appropriate. WOC to be determined upon pressure test.
7. Run CBL from CIBP to surface.
8. TIH open ended to 1496'.
9. **Plug #1, 1496' - surface (Perforations: 1546' – 1654' Chacra Top: 1525' Picture Cliff Top: 1146' Fruitland Top: 857' Kirtland Top: 728' Ojo Alamo Top: 675')** Mix & pump 48 sx of class G cement and spot plug from CIBP to surface moving tubing up hole as needed until good cement returns to surface.
10. LD remaining tubing.
11. NP BOP, cut off wellhead below surface casing flange per regulation. Top off w/cement if needed. Install P&A marker with cement to comply with regulations. RD and MOL. Restore location per BLM stipulations.

Proposed P&A WBD  
Natani #18  
API: 30-043-20795  
04-21N-06W  
GL 6910'

SURF CSG:

Hole size: 9"  
Csg size: 7"  
Wt: 23#  
Grade  
ID: 6.366"  
Depth: 99'  
Cap cf/ft: 0.221  
TOC: surface

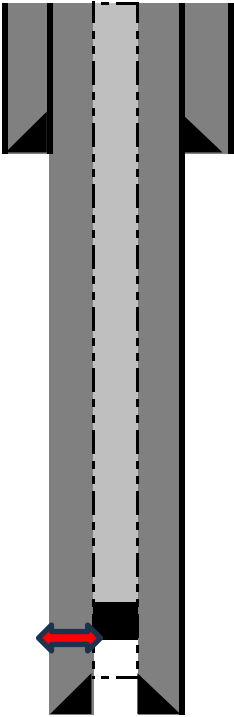
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Mancos Top:  
Gallup Top:  
Dakota Top:

PROD CSG:

Hole size: 6.5"  
Csg size: 2-7/8"  
Wt: 6.5#  
Grade  
ID: 2.441"  
Depth: 1787'  
Cap cf/ft: 0.0325  
Csg/OH Ann:  
Csg/OH Ann, cf/ft:  
TOC: surface

PERFS: 1546' - 1654'  
PBTD: 1747'  
TD: 1800'



Plug 1: 1636' - surface  
48 sx Class G

Set CIBP @ 1496'

Plugging Information

Class G cmt used mixed @ 15.8 ppg, yield 1.15 cuft/sx  
Regulatory representative:  
Marker GPS Coordinates:

## BLM Farmington NM – Request to Plug M & M Production & Operation Allottee Wells

Rennick, Kenneth G <krennick@blm.gov>

Thu 5/23/2024 11:15 AM

To: Griswold, Jim, EMNRD <Jim.Griswold@emnrd.nm.gov>; Powell, Brandon, EMNRD <Brandon.Powell@emnrd.nm.gov>  
Cc: Kade, Matthew H <mkade@blm.gov>; Lucero, Virgil S <vlucero@blm.gov>; Haque, Mustafa H <mhaque@blm.gov>; Wenman, Christopher P <cwenman@blm.gov>; Quintana, Hubert H <hquintana@blm.gov>; Runnels, Micah C <Micah.Runnels@bia.gov>; Jaquez, Laverna A <laverna.jaquez@bia.gov>; Klein, Ross H <rklein@blm.gov>; Combs, Nathan D <ncombs@blm.gov>; Halliburton, Darin L <dhallibu@blm.gov>; Gibson, Michael J <mjgibson@blm.gov>; Bryson, Tye A <TBryson@blm.gov>; Joe, Maureen A <mjoe@blm.gov>; Mankiewicz, David J <dmankiew@blm.gov>; Decker, Mark A <mdecker@blm.gov>; Rios, Jose E <jrios@blm.gov>

The BLM Farmington Field Office and the Federal Indian Mineral Office (FIMO) request NM OCD to plug the M & M Production & Operation wells that are associated to allottee leases. See below for list.

We also request associated equipment be removed and reclamation be completed. Note there may be central gas meter equipment associated to the wells located at a different location. Contact the Inspection Department for the BLM Farmington Field Office on specific details on the associated equipment.

When applicable please provide a confirmation when plugging work may be completed. Approximate dates will be appropriate.

A bond is associated to these wells. Remaining funds will be provided for plugging work when available. These funds will not cover the complete cost of plugging work.

The salvage value of the equipment associated to the wells should not compensate for the removal. If there is a significant salvage value, BLM and FIMO will not object NM OCD keeping the remaining money to apply for the plugging and reclamation cost of the wells.

Feel free to let us know if there is need for additional clarifications.

Kenneth Rennick

List of Wells:

Well Name	Well Number	US Well Number
NATANI	14	3004320609
NATANI	17	3004320610
NATANI	18	3004320795
NATANI	32	3004320794
NATANI	33	3004320793
NATANI	34	3004320798

Kenneth (Kenny) Rennick

Petroleum Engineer

Bureau of Land Management  
Farmington Field Office  
6251 College Blvd  
Farmington, NM 87402

Email: [krennick@blm.gov](mailto:krennick@blm.gov)  
Mobile & Text: 505.497.0019

United States Department of the Interior  
Bureau of Land Management  
Farmington District Office

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Refer To: 3160-3

To: AFM, Minerals, FFO

From: Geologist, FFO

Subject: Geologic Review of Plugging & Abandonment Procedures

County: San Juan

State: NM

Lease No.: N/A

Date Received: 06/04/2024

1. Surface Elevation: 3790' GR      Surface Geology: Nacimiento Fm.

2. Geologic Marker Tops (from reports on surrounding wells):

Well:	Natani #18
	API: 3004320795
Geologic Marker	Depth
Nacimiento	Surface
Ojo Alamo	675
Kirtland	728
Fruitland	857
Picture Cliffs	1146
Chacra	1525
Mesa Verde Group	NA
Mancos	NA
Gallup	NA

Other Mineral Deposits: Coal

No known active mining claims are located in this vicinity.

Geologist : Alek Knapowski

Date: 5 June, 2024



**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

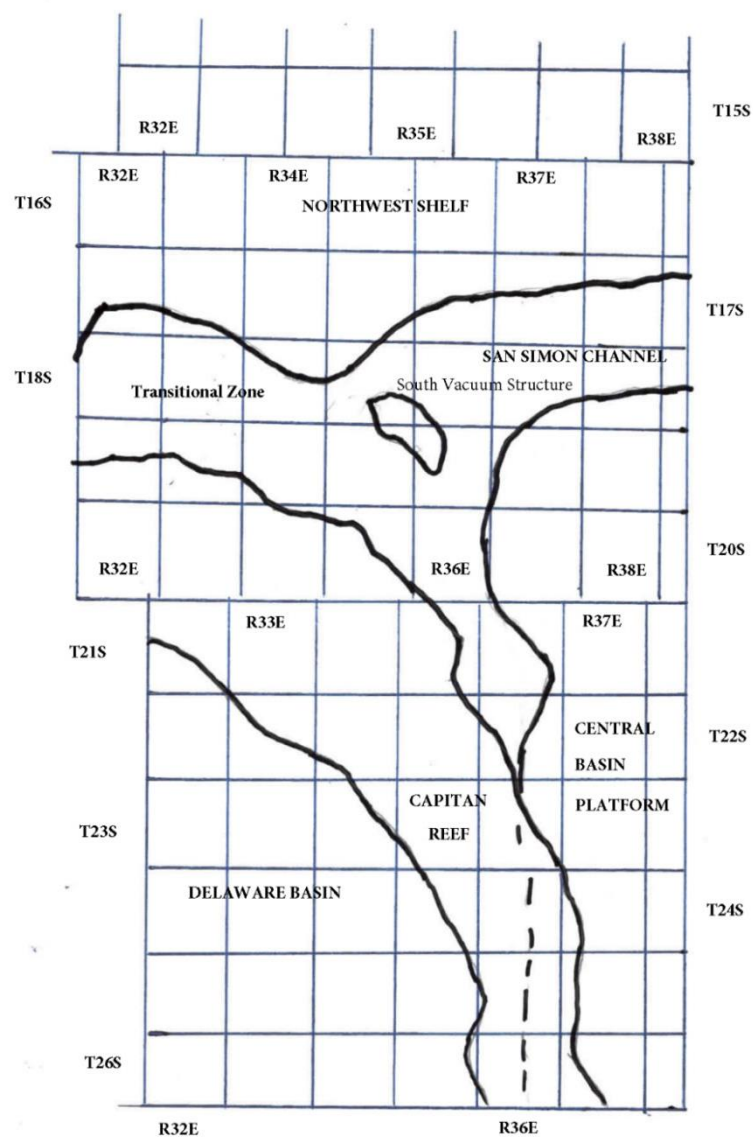




Figure D2 Formation Table

100' P'plug to isolate upper and lower fresh water zones (typiailly 2.50' to 350')						
NDItrhwst Shelf	C;iptan Reef Area	Tran5ition Zone	San Simon Oh.annel	South \lacJUUm Structure	Delaware Basin	Ce<n,tiral Basin Platform
Granit \./ash (Detrital basement material and fractured pre-Cambrian basement rock)	Siluro-Devonian	Morrow	Siluro-Devonian	Ellenburger	Siluro-Devonian	Granit \./ash (Detrital basement material, fractured pre-Cambrian basement rock and fracture Mafic Volcanic intrusives).
Montoya	Mississippian	Atoka	Morrow	Mckee	Morrow	Ellenburger
Fusselman	Morrow	Strawn	\./olfcamp	Siluro-Devonian	Atoka	Connell
Woodford	Atoka	Cisco	Abo Reef	Woodford	Strawn	Waddell
Siluro-Devonian	Strawn	Pennsylvanian	Bone Spring	Mississippian	Pennsylvanian	Mckee
Chester	Pennsylvanian	\./olfcamp	Delaware	Barnett Shale	Low er \./olfcamp	Simpson Group
Austin	\./olfcamp	Bone Spring	San Andres	Morrow	Upper \./olfcamp	Montoya
Mississippian	Abo Reef, if present	Delaware	Queen	Atoka	\./olfcamp	Fusselman
Morrow	Abo, if present	San Andres	Yates	Strawn	Third Bone Spring Sand (Top of \./olfbone)	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		Blinebry	Brushy Canyon	Pennsylvanian
Pennsylvanian	Base Capitan Reef	Yates		Bone Spring	Delaw are (Base of Salt)	\./olfcamp
Bough	Seven Rivers	Base of Salt		San Andres	Rustler	Abo
\./olfcamp	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					Blinebry
Drinkard or Low er Yeso (Township 15 South to Township 17 South)						Paddock
Tubb (Township 15 South to Township 17 South)						Glorieta
Blinebry (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						

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

CONDITIONS  
  
Action 382939

CONDITIONS

Operator: AZTEC WELL SERVICING CO 300 Legion Road Aztec, NM 87410	OGRID: 191362
	Action Number: 382939
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
loren.diede	Notify NMOCD 24 hours prior to beginning P&A operations.	9/12/2024