

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 Resources

Form C-103  
 Revised July 18, 2013

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

WELL API NO. 30-025-26344
5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HNG 4F State
8. Well Number 1
9. OGRID Number 372043
10. Pool name or Wildcat TRIPLE X;BONE SPRING

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 <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	
2. Name of Operator TAP ROCK OPERATING, LLC	
3. Address of Operator 523 PARK POINT DR, SUITE 200, GOLDEN, CO 80401	
4. Well Location Unit Letter F : 1980 feet from the North line and 1650 feet from the West line Section 4 Township 24S Range 33E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3588 GR	

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.

Tap Rock Operating is requesting permission to plug and abandon the HNG 4F State #001. Please see the below procedure and attached wellbore diagram for details on operations.

- MIRU PU.
  - Bleed off any well head pressures. Kill well if necessary.
  - ND WH & NU BOP.
  - POOH w/Tbg, rods and pump, TAC and LD.
  - Set CIBP at 10,100' w/50' cmt on top, WOC **Set CIBP 10,300' (top perf 10,396) Spot 25 sx Class H 9100 P&S 50 sx Class C 6350**
  - Set bal. plug 5,400' **WOC & Tag**
  - Perf & squeeze @ 5,300', add +50' cmt on top, WOC **Spot 25 sx Class C 3300 P&S 50 sx Class C 1350-1200 Rustler/Top of Salt**
  - Set a bal plug @ 880' w/50' cmt on top, WOC **P&S 50 sx Class C 750 Casing shoe WOC & Tag**
  - Perf & squeeze @ 200', pump cmt until seen on surf, WOC
  - Cut off wellhead, verify cement in annulus, and install "FLAT" dry hole marker, per NMOCD requirements.
  - RDMO PU, and aux equipment. Clean location of all debris, and prep location to initiate final reclamation procedures per NMOCD.
- 4" diameter 4' tall above ground marker**

**SEE ATTACHED CONDITIONS  
OF APPROVAL**

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

SIGNATURE  TITLE Regulatory Analyst DATE 6/7/2021

Type or print name Bill Ramsey E-mail address: bramsey@taprk.com PHONE: 720-238-2787

**For State Use Only**

APPROVED BY:  TITLE Compliance Officer A DATE 6/28/21  
 Conditions of Approval (if any):

**HNG 4 F State #1**

API: 30-025-26344

Sec 4-T24S-R33E

Lea County, NM

**Basic Wellbore Construction Data:**

Casing Data			
Size O.D.	Weight	Depth	TOC
13-3/8"	48 ppf	702'	Surface
9 -5/8"	24 ppf	5,200'	Surface'
7"	29 ppf	12,710'	5,225'
5"	20 ppf	16,200'	5,225'
Tubing Data			
2-7/8"	6.5 ppf	9,048'	
Open Perforations			
10,396'-10,451' BS			
Plugged Perforations			
13,250' – 14,932' and 15,594' – 15,911',			

**Objective:**

Plug and Abandon well per NMOCD specifications. **Regulatory office (Hobbs) does require a 24 hr notice prior to commencing plugging operations.**

**Safety:**

All Personnel MUST wear hard hats, steel toed boots, and safety glasses.

No smoking inside rig anchors.

Hold a job safety meeting each morning, and as needed before specific job tasks.

**Procedure:**

- 1) MIRU PU.
- 2) Bleed off any well head pressures. Kill well if necessary.
- 3) ND WH & NU BOP.
- 4) POOH w/Tbg, rods and pump, TAC and LD.
- 5) Set CIBP at 10,100' w/50' cmt on top, WOC
- 6) Set bal. plug 5,400'
- 7) Perf & squeeze @ 5,300', add +50' cmt on top, WOC
- 8) Set a bal plug @ 880' w/50' cmt on top, WOC
- 9) Perf & squeeze @ 200', pump cmt until seen on surf, WOC
- 10) Cut off wellhead, verify cement in annulus, and install "FLAT" dry hole marker, per NMOCD requirements.
- 11) RDMO PU, and aux equipment. Clean location of all debris, and prep location to initiate final reclamation procedures per NMOCD.

RP 5/26/2021

**Tap Rock Production****Current Configuration****HNG 4 F State #1**

S4 T24S R33E

Lea County, NM

API 30-025-26344

Lat. 32.2485199, Long. -103.5804291

Spud Date: June 30, 1979

Surf. csg 13.375" 48. lb/ft J-55 set @ 702' to Surf  
Cmt'd w/360 sx with Class C. TOC @ Surface  
17.5" Hole size

GR: 3588'

Int. 9.625" set @ 5,200'  
Cmt'd w/1,450 sx with Class C. TOC @ surf  
12.25" Hole size

Prod. 7" N-80 and P-110 set @ 12,710'  
Cmt'd w/1,850 sx with Class. TOC @ 5,225'  
8.5" Hole size

**EOT 10,301'**

Perfs: 10,396' - 10,451' - 06/17/1985 - Bone Springs Zone

Spot 30sx across liner top 12,170' - 12,370'

Perf @ 12,760' and squeeze. Set Retainer @ 12,740' w/50' cmt on top - 06/17/1985

Prod. 5" N-80 and P-110 set @ 16,200'  
Cmt'd w/340 sx with Class. TOC @ 5,225'  
6.125" Hole size

CIBP @ 13,100' w/35' cmt on top - 06/17/1985

Perfs: 13,250' - 13,337' - 4/16/1985 - Wolfcamp Zone

CIBP @ 14,900' w/35' cmt on top - 12/19/1979

Perfs: 14,922' - 14,932' - 12/21/1979 - Atoka Zone

Pkr @ 15,486' w/21' cmt on top - 12/19/1979

Perfs: 15,594' - 15,663' - 12/6/1979 - Plugged

Plugged 15,808' 15,796' - 11/2/1979

Perfs: 15,878' - 15,911' Wolfcamp - Plugged

PBTD 12,170'

TD 16,200'

Not to Scale

Wellbore Sketch by: Rakesh Patel 5/26/2021

**Tap Rock Production****Proposed Configuration****HNG 4 F State #1**

S4 T24S R33E

Lea County, NM

API 30-025-26344

Lat. 32.2485199, Long. -103.5804291

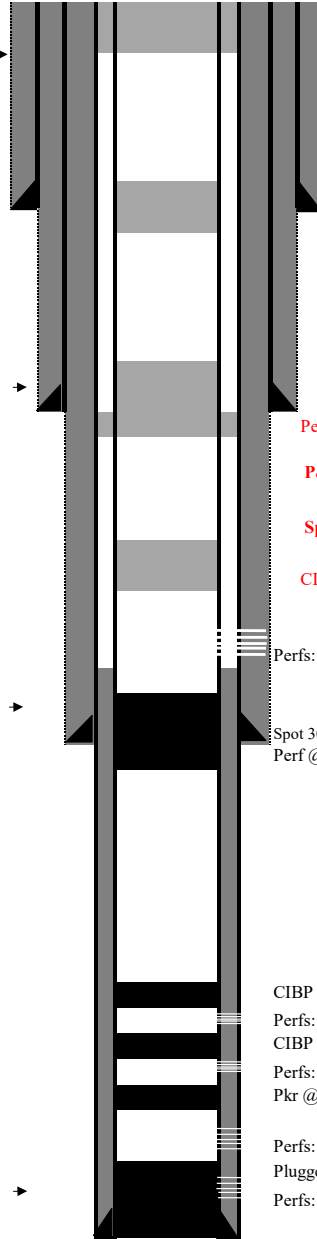
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Cmt'd w/340 sx with Class. TOC @ 5,225'  
6.125" Hole size



GR: 3588'

Perf @200 and circulate to cmt to surf

P&amp;S 50 sx Class C 750 13 3/8 Casing shoe WOC &amp; Tag

Set cmt plug @ 880' w/500' cmt on top  
100'

P&amp;S 50 sx Class C 1350-1200 Rustler/Top of Salt WOC &amp; Tag

Spot 25 sx Class C 3300 WOC &amp; Tag

Perf @ 5,300' and squeeze. Set Retainer @ 5,250' w/500' cmt on top  
100'

P&amp;S 50 sx Class C 6350 Cherry Canyon WOC &amp; Tag

Spot 25 sx Class H 9100 Bone springs WOC &amp; Tag

CIBP @ ~~XXXX~~ w/50' cmt on top Set CIBP 10,300'

Perfs: 10,396' - 10,451' - 06/17/1985 - Bone Springs Zone

Spot 30sx across liner top 12,170' - 12,370'

Perf @ 12,760' and squeeze. Set Retainer @ 12,740' w/50' cmt on top - 06/17/1985

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PBTD 12,170'

TD 16,200'

Not to Scale

Wellbore Sketch by: Rakesh Patel 5/26/2021

**CONDITIONS OF APPROVAL  
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 I (Hobbs) at **(575)-263-6633** 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 (Potash Mine 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 SO' 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, woe and tagged. These plugs will be set SO' below formation bottom to 50' above formation top inside the casing.

### **DRY HOLE MARKER REQ.UIRMENTS**

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 1/4" 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**

**HNG 4 F State #1**

API: 30-025-26344

Sec 4-T24S-R33E

Lea County, NM

**Basic Wellbore Construction Data:**

Casing Data			
Size O.D.	Weight	Depth	TOC
13-3/8"	48 ppf	702'	Surface
9 -5/8"	24 ppf	5,200'	Surface'
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5"	20 ppf	16,200'	5,225'
Tubing Data			
2-7/8"	6.5 ppf	9,048'	
Open Perforations			
10,396'-10,451' BS			
Plugged Perforations			
13,250' – 14,932' and 15,594' – 15,911',			

**Objective:**

Plug and Abandon well per NMOCD specifications. **Regulatory office (Hobbs) does require a 24 hr notice prior to commencing plugging operations.**

**Safety:**

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No smoking inside rig anchors.

Hold a job safety meeting each morning, and as needed before specific job tasks.

**Procedure:**

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- 6) Set bal. plug 5,400'
- 7) Perf & squeeze @ 5,300', add +50' cmt on top, WOC
- 8) Set a bal plug @ 880' w/50' cmt on top, WOC
- 9) Perf & squeeze @ 200', pump cmt until seen on surf, WOC
- 10) Cut off wellhead, verify cement in annulus, and install "FLAT" dry hole marker, per NMOCD requirements.
- 11) RDMO PU, and aux equipment. Clean location of all debris, and prep location to initiate final reclamation procedures per NMOCD.

RP 5/26/2021

**Tap Rock Production****Current Configuration****HNG 4 F State #1**

S4 T24S R33E

Lea County, NM

API 30-025-26344

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GR: 3588'

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Prod. 5" N-80 and P-110 set @ 16,200'  
Cmt'd w/340 sx with Class. TOC @ 5,225'  
6.125" Hole size

**Rod Details**

- 1-1/2" 26' Polish Rod
- 85 - 1" KD (2,025')
- 75 - 7/8" KD (1,875')
- 204 - 3/4" D (5,100')
- 1 - 3/4" - Pony rod (2')
- 1 - 2-1/2"X1-1/2"X20" RHBC Pump (20')

**EOT 10,301'**

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Spot 30sx across liner top 12,170' - 12,370'

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Plugged 15,808' 15,796' - 11/2/1979

Perfs: 15,878' - 15,911' Wolfcamp - Plugged

PBTD 12,170'

TD 16,200'

Not to Scale

Wellbore Sketch by: Rakesh Patel 5/26/2021



**Tap Rock Production****Proposed Configuration****HNG 4 F State #1**

S4 T24S R33E

Lea County, NM

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Set cmt plug @ 880' w/50' cmt on top

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Not to Scale

Wellbore Sketch by: Rakesh Patel 5/26/2021

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1625 N. French Dr., Hobbs, NM 88240  
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**District II**  
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Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS  
  
Action 30827

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 30827
	Action Type: [C-103] NOI Plug & Abandon (C-103F)

CONDITIONS

Created By	Condition	Condition Date
kfortner	See attached conditions of approval Note changes to procedure	6/28/2021