| DEPARTMENT OF THE I | | | | | | | | | | |
|--|--------------------|---------------------------------------|---|-------------|------------------------|--------------|----------------------|--|--|--|
| | | | | | 6. If Indian, Allo | otee or Trib | e Name | | | |
| 1a. Type of work: DRILL | EENTEI | R | | | 7. If Unit or CA | Agreemen | t, Name and No. | | | |
| | other ingle Zor | ne [| Multiple Zone | | 8. Lease Name a | and Well N | 0. | | | |
| 2. Name of Operator | | | | | 9. API Well No. | 30-01 | 5-53916 | | | |
| 3a. Address | 3b. Pho | one N | o. (include area code | e) | 10. Field and Pc | ol, or Expl | oratory | | | |
| 4. Location of Well <i>(Report location clearly and in accordance of</i> At surface At proposed prod. zone | with any | State | requirements.*) | | 11. Sec., T. R. M | 1. or Blk. a | nd Survey or Area | | | |
| 14. Distance in miles and direction from nearest town or post off | fice* | | | | 12. County or Pa | arish | 13. State | | | |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) | 16. No | No of acres in lease 17. Spaci | | | ng Unit dedicated | to this wel | 1 | | | |
| Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. | 19. Pro | 19. Proposed Depth 20. BLM | | | /BIA Bond No. in | file | | | | |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.) | 22. Ap | 22. Approximate date work will start* | | | 23. Estimated duration | | | | | |
| | 24. / | Attacl | hments | | 1 | | | | | |
| The following, completed in accordance with the requirements o (as applicable) | f Onshor | re Oil a | and Gas Order No. 1 | , and the H | Hydraulic Fracturi | ng rule per | 43 CFR 3162.3-3 | | | |
| Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest Syste | em Lands | s the | Bond to cover th Item 20 above). Operator certific | | as unless covered b | y an existii | ng bond on file (see | | | |
| SUPO must be filed with the appropriate Forest Service Office | | , | 6. Such other site sp BLM. | | mation and/or plar | is as may be | e requested by the | | | |
| 25. Signature | 1 | Name | (Printed/Typed) | | | Date | | | | |
| Title | | | | | | | | | | |
| Approved by (Signature) | 1 | Name | (Printed/Typed) | | | Date | | | | |
| Title | (| Office | | | | I | | | | |
| Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached. | nt holds l | legal c | or equitable title to the | nose rights | in the subject leas | e which we | ould entitle the | | | |
| Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, n of the United States any false, fictitious or fraudulent statements | | | | | | to any dep | artment or agency | | | |
| | | | | | | | | | | |



(Continued on page 2)

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 District I

 1625 N. French Dr., Hobbs, NM 88240

 Phone: (575) 393-6161 Fax: (575) 393-0720

 District II

 811 S. First St., Artesia, NM 88210

 Phone: (575) 748-1283 Fax: (575) 748-9720

 District III

 1000 Rio Brazos Road, Aztec, NM 87410

 Phone: (505) 334-6178 Fax: (505) 334-6170

 District IV

 1220 S. St. Francis Dr., Santa Fe, NM 87505

 Phone: (505) 476-3460

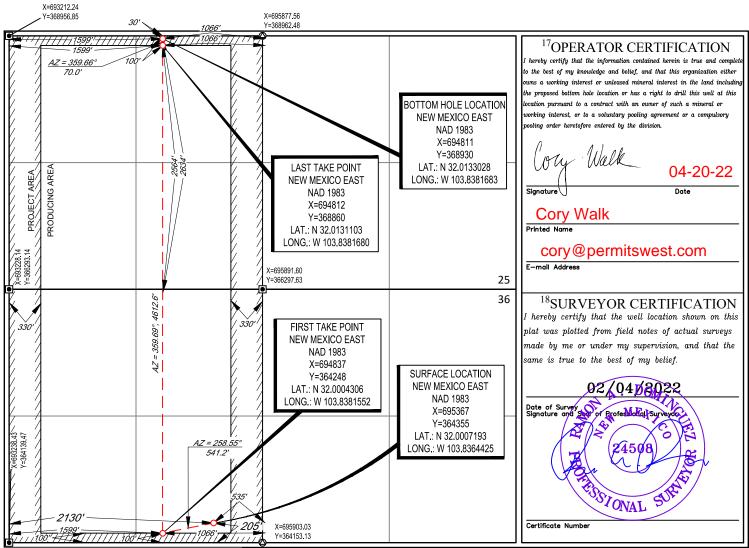
State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION 1220 South St. Francis Dr. Santa Fe, NM 87505 FORM C-102 Revised August 1, 2011 Submit one copy to appropriate District Office

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

| 1 | API Number | r | | ² Pool Code | | | ³ Pool Na | ame | | | | |
|--|-------------------------------------|-------------------------|-----------------|------------------------|-------------------------|-----------------------|----------------------|--------|--------------|--------------------------|--|--|
| 30-015 | -5391 | 6 | | 84300 | | ROSS D | RAW; BON | E SPRI | NG (G | iAS) | | |
| ⁴ Property C | ode | | | | ⁵ Property N | ame | | | 61 | ⁶ Well Number | | |
| 327308 | 3 | NAILED IT FED COM 102H | | | | | | | | | | |
| ⁷ OGRID No. ⁸ Operator Name ⁹ Elevation | | | | | | | | | | | | |
| 37204 | 372043TAP ROCK OPERATING, LLC.3019' | | | | | | | | | | | |
| ¹⁰ Surface Location | | | | | | | | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | Ea | st/West line | County | | |
| 3 | 36 | 26-S | 30-E | - | 205' | SOUTH | 2130' | WEST | | EDDY | | |
| | | | ¹¹ 1 | Bottom Ho | le Location If D |) ifferent From Su | rface | | | | | |
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | Ea | st/West line | County | | |
| K | 25 | 26-S | 30-E | - | 2634' | SOUTH | 1599' | WE | ST | EDDY | | |
| ¹² Dedicated Acres | ¹³ Joint or 1 | Infill ¹⁴ Co | nsolidation Coc | ie ¹⁵ Ord | er No. | | | | | | | |
| 289.2 | | | | | | | | | | | | |

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



S:\SURVEY\TAPROCK\NAILED_IT_UNIT\FINAL_PRODUCTS\LO_NAILED_IT_FED_COM_102H.DWG 2/15/2022 7:48:14 AM kmathe

| Re | ceived by | OCD: | 6/22/2023 | 2:05:45 PM |
|----|-----------|------|-----------|------------|
|----|-----------|------|-----------|------------|

| eived by OCD: 6/22/2023 | 2:05:45 P | М | | | | | | | | Page 3 |
|---|-------------|----------------------------|---------|------------------------------------|--------------------------|--------------------------|---------|-----------------------------|-------------------|----------------------------------|
| |] | Stat Energy, Minerals a | | New Me atural Re | | nent | | Submi Via E- | t Elect permit | ronically tting |
| | | 1220 \$ | South | vation D 1 St. Frar e, NM 87 | icis Dr. | | | | | |
| | N | NATURAL G | AS I | MANA | GEMENT I | PLAN | | | | |
| This Natural Gas Manager | nent Plan r | nust be submitted w | ith ead | ch Applica | tion for Permit to | Drill (A | PD) for | r a new or r | ecom | pleted well. |
| | | | | <u>Plan D</u> ve May 25 | escription , 2021 | | | | | |
| I. Operator:Tap | Rock Oper | ating LLC | (| OGRID: _ | 372043 | | Da | te: _6/22/2 | 3 | |
| II. Type: 🛛 Original 🗆 | Amendmer | nt due to □ 19.15.27 | '.9.D(| 6)(a) NMA | AC □ 19.15.27.9.1 | D(6)(b) N | IMAC | □ Other. | | |
| If Other, please describe: _ | | | | | | | | | | |
| III. Well(s): Provide the f be recompleted from a sing | | | | | | f wells pr | oposec | l to be drill | ed or | proposed to |
| Well Name | API | ULSTR | | Footages | | Anticipated Oil BBL/D | | Anticipated Gas MCF/D | | Anticipated Produced Water |
| Nailed It Fed Com 102H | | Sec 36 T26S R30E | 3 | 205 FSL, | 2130 FWL | 668 | | 2640 | 5 | 5355 |
| IV. Central Delivery Poin | nt Name: _ | Nailed It Fed Con | m CD | P[S | ee 19.15.27.9(D) | (1) NMA | C] | | | |
| V. Anticipated Schedule: proposed to be recomplete | | | | | | | et of w | ells propos | ed to l | be drilled or |
| Well Name | API | Spud Date | TD | Reached Date | Completic Commencemen | | | al Flow k Date | | Production Date |
| Nailed It Fed Com 102H | | 12/4/23 | 12/2 | 24/23 | 1/20/23 | | 2/15/2 | 23 | 2/15/2 | 23 |
| VI. Separation Equipmen | nt: 🛛 Atta | ch a complete descri | ption | of how Op | perator will size se | eparation | equipn | nent to opti | mize | gas capture. |
| VII. Operational Practic Subsection A through F of | | - | riptio | n of the ac | ctions Operator w | ill take t | o comp | oly with the | e requ | irements of |
| VIII. Best Management during active and planned | | - | ete des | scription o | f Operator's best | manager | nent pi | ractices to 1 | minin | nize venting |
| | | | | | | | | | | |
| | | | | | | | | | | |

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Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

| Well | API | Anticipated Average Natural Gas Rate MCF/D | Anticipated Volume of Natural Gas for the First Year MCF |
|------|-----|---|---|
| | | | |
| | | | |

X. Natural Gas Gathering System (NGGS):

| Operator | System | ULSTR of Tie-in | Anticipated Gathering Start Date | Available Maximum Daily Capacity of System Segment Tie-in |
|----------|--------|-----------------|-------------------------------------|--|
| | | | | |
| | | | | |

XI. Map. \Box Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator \Box does \Box does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

□ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: \Box Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

<u>Section 3 - Certifications</u> <u>Effective May 25, 2021</u>

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

 \boxtimes Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

 \Box Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. *If Operator checks this box, Operator will select one of the following:*

Well Shut-In. \Box Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. \Box Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- (a) power generation on lease;
- (b) power generation for grid;
- (c) compression on lease;
- (d) liquids removal on lease;
- (e) reinjection for underground storage;
- (f) reinjection for temporary storage;
- (g) reinjection for enhanced oil recovery;
- (h) fuel cell production; and
- (i) other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

| Signature: |
|--|
| Printed Name: Jeff Trlica |
| Title: Regulatory Specialist |
| E-mail Address: jtrlica@taprk.com |
| Date: 6/22/2023 |
| Phone: 720-772-5910 |
| OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form) |
| |
| Approved By: |
| Approved By: Title: |
| |
| Title: |
| Title: Approval Date: |
| Title: Approval Date: |
| Title: Approval Date: |

VI. **Separation Equipment:** Attach a complete description of how Operator will size separation equipment to optimize gas capture:

Each surface facility design includes the following process equipment: 3-phase separators (1 separator per well), a sales gas scrubber, one or two 3-phase heater treaters, a vapor recovery tower (VRT), a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut-in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the HP flare system. Flash gas from both the 3-phase heater treater and the VRT will be recompressed using a VRU compressor and this gas will also preferentially be directed to the gas sales pipeline. Oil tanks & water tanks will be fitted with 16 oz thief hatches as well as PVRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets and tank vapor capture system will be sized to keep tank pressures below 12 oz. The tank vapor capture system will include a tank vapor blower & knockout as well as a lowpressure flare and knockout. Tank vapors will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. **Operational Practices:** Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. ← See attached reg for requirements.

- During drilling operations- Gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, VRTs, Tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergency, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified exceptions per the regulation 19.15.27.8 Subsection D.

To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage atmospheric tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor capture system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. **Best Management Practices:** Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

• When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmosphere performed.



Elevation above Sea Level: 3019'

DRILLING PROGRAM

1. Estimated Tops

| Formation | TVD | MD | Lithologies | Bearing |
|---------------------|------|-------|-------------|--------------|
| Quaternary Deposits | 0 | 0 | Surface | None |
| Rustler Anhydrite | 835 | 835 | | Salt |
| Salado | 1385 | 1385 | Salt | Salt |
| Base Salt | 3430 | 3431 | | Salt |
| Lamar | 3635 | 3636 | Limestone | None |
| Bell Canyon | 3655 | 3656 | Sandstone | Hydrocarbons |
| Cherry Canyon | 4845 | 4862 | Sandstone | Hydrocarbons |
| Brushy Canyon | 5800 | 5844 | Sandstone | Hydrocarbons |
| Bone Spring | 7565 | 7623 | Limestone | Hydrocarbons |
| КОР | 7370 | 7423 | Sandstone | Hydrocarbons |
| Upper Avalon | 7665 | 7734 | Sandstone | Hydrocarbons |
| TD | 7929 | 12396 | Shale | Hydrocarbons |

2. Notable Zones

Avalon is the target formation.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 15,000', a 5,000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

BOP Test procedure will be as follows:

After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.



Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate and cementing 1st intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test.

Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Tap Rock will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.

4. Casing & Cement

All Casing will be new.

| Name | Hole Size | Casing Size | Standard | Tapered | Top MD | Bottom MD | Top TVD | BTM TVD | Grade | Weight | Thread | Collapse | Burst | Tension |
|------------------|-------------|-------------|----------|---------|--------|-----------|---------|---------|----------|--------|--------|----------|-------|---------|
| Surface | 17 1/2 | 13 3/8 | API | No | 0 | 910 | 0 | 910 | J-55 | 54.5 | BUTT | 1.13 | 1.15 | 1.6 |
| 1st Intermediate | 12 1/4 | 9 5/8 | API | No | 0 | 3661 | 0 | 3660 | J-55 | 40 | BUTT | 1.13 | 1.15 | 1.6 |
| Production | 8 3/4 5 1/2 | F 1/2 | ADI | Ne | 0 | 7423 | 0 | 7370 | P-110 20 | ТХР | 1 1 2 | 1.15 | 1.6 | |
| Production | 7 7/8 | 5 1/2 | API | No | 7423 | 12396 | 7370 | 7929 | P-110 | 20 | IAP | 1.13 | 1.15 | 1.6 |

| Name | Туре | Top MD | Sacks | Yield | Cu. Ft | Weight | Excess | Cement | Additives |
|------------------|------|--------|-------|-------|--------|--------|--------|--------|--|
| Surface | Tail | 0 | 936 | 1.35 | 1264 | 14.8 | 100% | С | 5% NCI + LCM |
| 1st Intermediate | Lead | 0 | 694 | 2.18 | 1514 | 12.7 | 65% | С | Bentonite + 1% CaCL2 + 8% NaCl + LCM |
| Ist intermediate | Tail | 2661 | 284 | 1.33 | 378 | 14.8 | 65% | С | 5% NaCl + LCM |
| Production | Tail | 3161 | 1420 | 1.71 | 2428 | 14.2 | 25% | Н | Fluid Loss + Dispersant + Retarder + LCM |

5. Mud Program

| Name | Тор | Bottom | Туре | Mud Weight | Visc | Fluid Loss |
|--------------|------|--------|-------------|------------|-------|------------|
| Surface | 0 | 910 | FW Spud Mud | 8.30 | 28 | NC |
| Intermediate | 910 | 3661 | Brine Water | 10.00 | 30-32 | NC |
| Production | 3661 | 12396 | Cut Brine | 9.00 | 28-40 | <10 |

| Name | Тор | Bottom | Туре | Mud Weight | Visc | Fluid Loss |
|--------------|------|--------|---------------|------------|-------|------------|
| Surface | 0 | 910 | FW Spud Mud | 8.30 | 28 | NC |
| Intermediate | 910 | 3661 | Brine Water | 10.00 | 30-32 | NC |
| Production | 3661 | 12396 | Oil Based Mud | 9.00 | 40-60 | <10 |

Tap Rock requests the option to run cut brine or OBM in the production interval.

Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (e. g., barite, cedar bark) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD.
- A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

Page 12 of 35

Drilling Operations Plan Nailed It Fed Com 102H Tap Rock Operating, LLC SHL 205' FSL & 2130' FWL, Sec. 36 BHL 2634' FSL & 1599' FWL, Sec. 25 T. 26S., R. 30E, Eddy County, NM

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 3,711 psi. Expected bottom hole temperature is \approx 170° F.

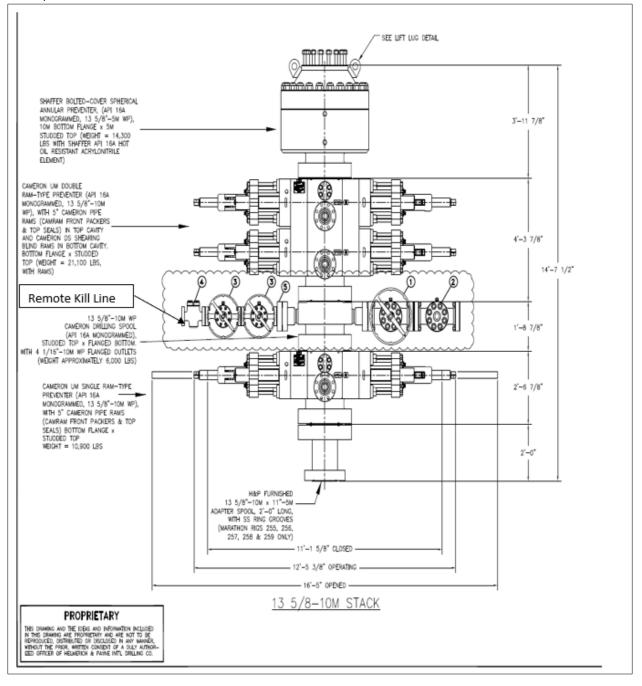
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package on all wells and an "H2S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. <u>Other</u>

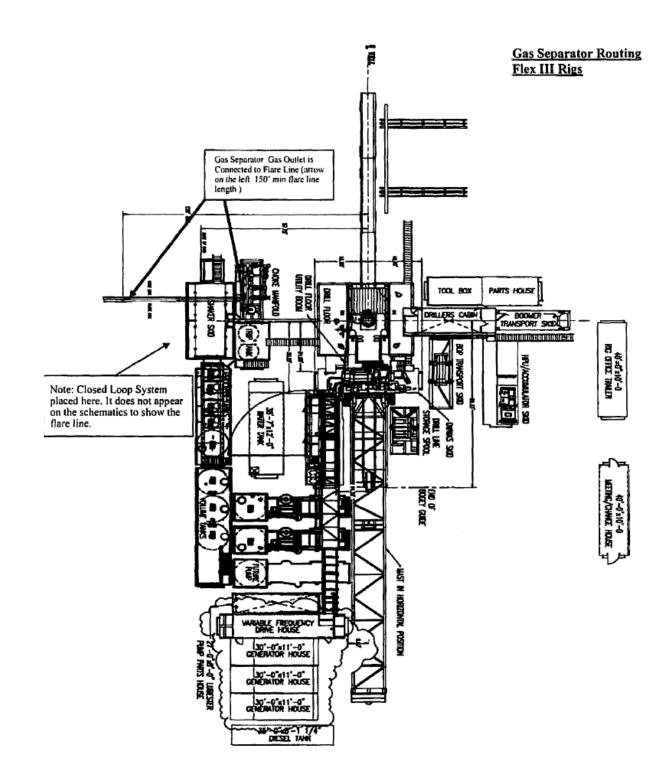
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



5,000 psi BOP Stack

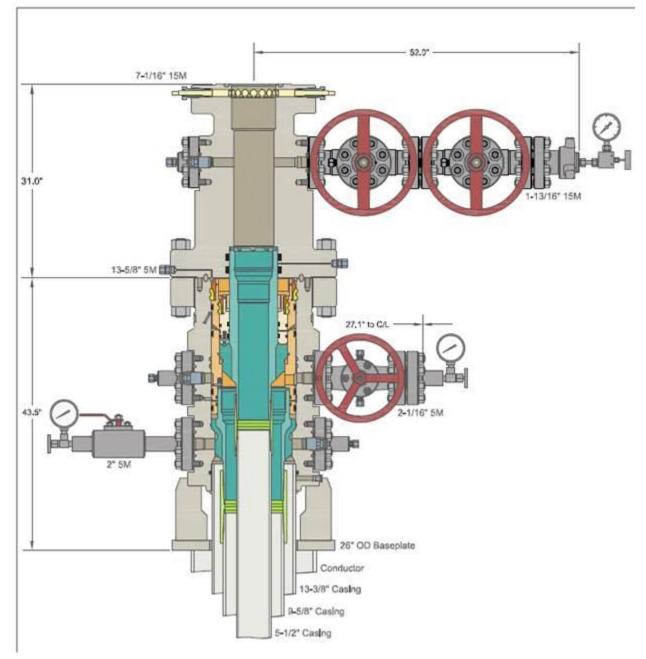






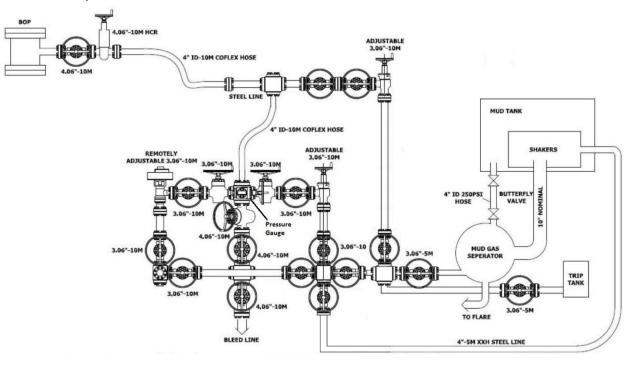


Multi-bowl Wellhead





10M Choke Layout





Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) (Nailed It) Sec-36_T-26-S_R-30-E Nailed It Fed Com #102H

OWB

Plan: Plan #1

Standard Planning Report

29 March, 2022









| From: Map Easting: 693,516.00 usft Longitude: 103° 50' 32.687 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16 " Grid Convergence: 0.2 Well Nailed It Fed Com #102H 364,355.00 usft Latitude: 32° 0' 2.588 Well Position +N/-S -116.0 usft Northing: 364,355.00 usft Latitude: 32° 0' 2.588 +E/-W 1,851.0 usft Easting: 695,367.00 usft Longitude: 103° 50' 11.197 | Database: Company: Project: Site: Well: Wellbore: Design: | Tap Rock F Eddy Coun (Nailed It) \$ | .15 Single Use Resources, LL(hty, NM (NAD 8 Sec-36_T-26-S ed Com #102H | C 3 NME) 5_R-30-E | TVD Refer MD Refere North Ref | ence: | KB @ 3045.0u KB @ 3045.0u Grid | isft |
|--|---|---|---|-------------------------|-------------------------------------|-----------------|--------------------------------------|---|
| Goo Datum: Map Zone: North American Batum 1983 New Mexico Eastern Zone Net Mexico Eastern Zone Site (Nailed It) Sec-36_T-26-S_R-30-E Southhing: Easting: 364,471.00 usft 364,471.00 usft Latitude: Grid Convergence: 32° 0' 3.287 0.2 From: Map Northing: Easting: 364,471.00 usft 103° 50' 2.681 Grid Convergence: 103° 50' 2.681 0.2 Veil Nailed It Fed Com #102H Vertice Stort Radius: 13' 3/16 " Grid Convergence: 0.2 Veil Nailed It Fed Com #102H Vertice 1,651.0 usft Northing: 364,355.00 usft Latitude: 32' 0' 2.581 0.2 Veil Position Uncertainty 0.0 usft North Ming: 364,355.00 usft Latitude: 32' 0' 2.581 0.03' 50' 11.197 Position Uncertainty 0.0 usft Weilhead Elevation: Gerid Convergence: 32' 0' 2.581 0.03' 50' 11.197 Veilbore OWB IGRF2015 03/25/22 6.54 59.75 47.202.73263915 Design Plan #1 Plane: PLAN Tie On Depth: 0.0 0.0 Vertical Section: Depth From (VD) (usft) twi/s te//w | Project | Eddy Count | y, NM (NAD 83 | 3 NME) | | | | |
| Site Position: From: Map Northing: Easting: 364,471.00 usft 693,516.00 usft 13-3/16" Latitude: Longitude: 32" 0" 3.82" 103" 50" 32.687 Well Nailed It Fed Com #102H Intervention +N/-S +E/-W -116.0 usft 1,851.0 usft +E/-W Northing: 1,851.0 usft +E/-W 364,355.00 usft 1,851.0 usft +E/-W Latitude: 32" 0" 2.58 Magnetics +W/-S +E/-W -116.0 usft 1,851.0 usft +E/-W Northing: 1,851.0 usft +E/-W 364,355.00 usft 1,03" 50" 11.197 Latitude: 32" 0" 2.58 Model Name O/W B Easting: 695,367.00 usft Ground Level: S2" 0" 2.58 Magnetics Model Name Sample Date Declination (") Dip Angle (") Field Strength (nT) Version: Plan #1 Audit Notes: Version: 0.0 0.0 0.0 359.69 Plan Survey Tool Program Date 03/29/22 Evertion (usft) Usft) Usft) Usft) 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr GYD_GC+DROP+OH Gyrodata Stationary Tool dr Stationary Tool dr | Geo Datum: | North Americ | an Datum 198 | 3 | System Da | tum: | Mean Sea Level | |
| Map Easting: 693,516.00 usft Longitude: 103*50*32.667 Position Uncertainty: 0.0 usft Slot Radius: 13-3/16* Grid Convergence: 0.2 Well Nalled It Fed Com #102H ************************************ | Site | (Nailed It) S | ec-36_T-26-S_ | _R-30-E | | | | |
| Weil Position +N/-S +E/-W 116.0 usft 18,81.0 usft 18,81.0 usft 0.0 usft Northing: Easting: 0.0 usft 364,355.00 usft 695,367.00 usft Weilhead Elevation: Latitude: Longitude: Ground Level: 32°.0°.2.88 103° 50°.11.197 Ground Level: Position Uncertainty OWB Weilhead Elevation: Objection: Ground Level: Sample Date Declination (°) Dip Angle (°) Field Strength (nT) Sample Date Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) Sample Date Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) Sample Date Medit Notes: IGRF2015 03/25/22 6.54 59.75 47.292.73263915 Design Plan #1 Plane: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S +E/-W (usft) Direction (usft) Out Out Plan Survey Tool From (usft) Date 0.0 0.0 0.0 359.69 Plan Survey Tool From (usft) Survey (Wellbore) Tool Name Remarks <t< th=""><th>From:</th><th>•</th><th>0.0 usft</th><th>Easting:</th><th>693,51</th><th>6.00 usft Longi</th><th>itude:</th><th>32° 0' 3.820 N 103° 50' 32.687 W 0.26 °</th></t<> | From: | • | 0.0 usft | Easting: | 693,51 | 6.00 usft Longi | itude: | 32° 0' 3.820 N 103° 50' 32.687 W 0.26 ° |
| +E/-W 1,851.0 usft Easting: 695,367.00 usft Longitude: 103° 50′ 11.197 Position Uncertainty O.0 usft Wellhead Elevation: Ground Level: 3,019.01 Wellbore OWB OWB Field Strength (nT) 103° 50′ 11.197 Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) Magnetics Plan #1 O.0/25/22 6.54 59.75 47,292.73263915 Design Plan #1 Phase: PLAN Tie On Depth: 0.0 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S +E/-W Direction (°) O.0 Plan Survey Tool From (Usft) Juryey (Wellbore) Tool Name Remarks Field Strength (°) 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrod dr Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD MWD | Well | Nailed It Fee | d Com #102H | | | | | |
| Weilbore OWB Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) Design Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT) Design Plan #1 6.54 59.75 47.292.73263915 Design Plan #1 Plan #1 0.0 0.0 0.0 Vertical Section: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°) Plan Survey Tool Frogram (usft) Depth Trom (Usft) (usft) Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD Here | Well Position | - | 1,851.0 usft | Easting: | | | Longitude: | 32° 0' 2.588 N 103° 50' 11.197 W |
| Magnetics Model Name Sample Date Declination (*) Dip Angle (*) Field Strength (nT) L IGR F2015 03/25/22 6.54 59.75 47,292.73263915 Design Plan #1 Plan #1 Version: Plan #1 0.0 0.0 Version: ' ' Phase: PLAN Tie On Depth: 0.0 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) tE/-W (usft) Direction (*) O.0 Plan #1 Depth From (TVD) ************************************ | Position Uncer | rtainty | 0.0 usft | Wellhead E | levation: | | Ground Level: | 3,019.0 usft |
| IGRF 2015 03/25/22 6.54 59.75 47,292.73263915 Design Plan #1 Audit Notes: Plan #1 Version: Phase: PLAN Vertical Section: Depth From (TVD) (usft) +N/-S (usft) 0.0 0.0 0.0 0.0 359.69 Tie On Depth: 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 | Wellbore | OWB | | | | | | |
| Design Plan #1 Audit Notes: Phase: PLAN Tie On Depth: 0.0 Version: Depth From (TVD) (usft) +N/-S (usft) (usft) 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) 0.0 359.69 Plan Vertical Section: Depth From (Usft) Date 03/29/22 Remarks Vertical Section: Survey (Wellbore) Plan Vertication Survey (Wellbore) Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | Magnetics | Model N | ame S | Sample Date | | ion | | |
| Audit Notes: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) tE/-W (usft) Direction (°) 0.0 0.0 0.0 0.0 359.69 Plan Survey Tool Program Date 03/29/22 Depth From (usft) Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | | IGF | RF2015 | 03/25/22 | | 6.54 | 59.75 | 47,292.73263915 |
| Version: Phase: PLAN Tie On Depth: 0.0 Vertical Section: Depth From (TVD) (usft) +N/-S (usft) HE/-W (usft) Direction (vsft) 0.0 0.0 0.0 359.69 Plan Survey Tool Program Date 03/29/22 Depth From (usft) Date 03/29/22 Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | Design | Plan #1 | | | | | | |
| Vertical Section: Depth From (TVD) (usft) +N/-S (usft) +E/-W (usft) Direction (°) 0.0 0.0 0.0 359.69 Plan Survey Tool Program Date 03/29/22 Depth From (usft) Depth To (usft) Date 03/29/22 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | Audit Notes: | | | | | | | |
| (usft) (usft) (usft) (e) 0.0 0.0 0.0 359.69 Plan Survey Tool Program Date 03/29/22 Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | Version: | | | Phase: | PLAN | Tie On D | epth: | 0.0 |
| Plan Survey Tool Pogram Date 03/29/22 Depth From (usft) Depth To (usft) Survey (Wellbore) Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | Vertical Sectio | n: | (u | sft) | (usft) | (usft) | | (°) |
| Depth From (usft)Depth To (usft)Depth To Survey (Wellbore)Tool NameRemarks10.03,600.0Plan #1 (OWB)GYD_GC+DROP+OH Gyrodata Stationary Tool dr23,600.012,396.8Plan #1 (OWB)MWD | | | C | 0.0 | 0.0 | 0.0 | 35 | 9.69 |
| (usft) (usft) Survey (Wellbore) Tool Name Remarks 1 0.0 3,600.0 Plan #1 (OWB) GYD_GC+DROP+OH Gyrodata Stationary Tool dr 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | Plan Survey Te | ool Program | Date 03/29 |)/22 | | | | |
| 2 3,600.0 12,396.8 Plan #1 (OWB) MWD | | | Survey (Well | bore) | Tool Name | Ren | narks | |
| | 1 (| 0.0 3,600.0 | Plan #1 (OWE | 3) | — | | | |
| | 2 3,600 | 0.0 12,396.8 | Plan #1 (OWE | 3) | | - Standard | | |



Intrepid Planning Report



| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Nailed It Fed Com #102H |
|-----------|----------------------------------|------------------------------|------------------------------|
| Company: | Tap Rock Resources, LLC | TVD Reference: | KB @ 3045.0usft |
| Project: | Eddy County, NM (NAD 83 NME) | MD Reference: | KB @ 3045.0usft |
| Site: | (Nailed It) Sec-36_T-26-S_R-30-E | North Reference: | Grid |
| Well: | Nailed It Fed Com #102H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #1 | | |

Plan Sections

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) | TFO (°) | Target |
|-----------------------------|--------------------|----------------|-----------------------------|-----------------|-----------------|-------------------------------|------------------------------|-----------------------------|------------|---------------------|
| 0.0 | 0.00 | 0.00 | 0.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,300.0 | 0.00 | 0.00 | 1,300.0 | 0.0 | 0.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 1,500.0 | 2.00 | 320.00 | 1,500.0 | 2.7 | -2.2 | 1.00 | 1.00 | 0.00 | 320.00 | |
| 3,501.3 | 2.00 | 320.00 | 3,500.0 | 56.2 | -47.1 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 4,747.6 | 13.54 | 254.46 | 4,733.8 | 33.6 | -202.4 | 1.03 | 0.93 | -5.26 | -73.54 | |
| 5,739.2 | 13.54 | 254.46 | 5,697.8 | -28.6 | -426.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 7,053.6 | 0.00 | 0.00 | 7,000.0 | -70.0 | -575.0 | 1.03 | -1.03 | 0.00 | 180.00 | |
| 7,423.6 | 0.00 | 0.00 | 7,370.0 | -70.0 | -575.0 | 0.00 | 0.00 | 0.00 | 0.00 | |
| 8,325.6 | 90.20 | 3.45 | 7,943.0 | 503.9 | -540.4 | 10.00 | 10.00 | 0.00 | 3.45 | |
| 8,513.4 | 90.20 | 359.69 | 7,942.3 | 691.6 | -535.2 | 2.00 | 0.00 | -2.00 | -90.05 | |
| 12,396.8 | 90.20 | 359.69 | 7,929.0 | 4,575.0 | -556.0 | 0.00 | 0.00 | 0.00 | 0.00 | PBHL (Nailed It Fee |



Intrepid Planning Report



| Database: Company: | EDM 5000.15 Single User Db Tap Rock Resources, LLC | Local Co-ordinate Reference: TVD Reference: | Well Nailed It Fed Com #102H KB @ 3045.0usft |
|-----------------------|---|--|---|
| Project: | Eddy County, NM (NAD 83 NME) | MD Reference: | KB @ 3045.0usft |
| Site: | (Nailed It) Sec-36_T-26-S_R-30-E | North Reference: | Grid |
| Well: | Nailed It Fed Com #102H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|--|--|---|--------------------------------------|--|--------------------------------------|--------------------------------------|--------------------------------------|--|
| 0.0 100.0 200.0 300.0 400.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.0 100.0 200.0 300.0 400.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 500.0 600.0 700.0 800.0 900.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 500.0 600.0 700.0 800.0 900.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.0 0.0 0.0 0.0 0.0 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 1,000.0 1,100.0 1,200.0 1,300.0 1,400.0 | 0.00 0.00 0.00 0.00 1.00 | 0.00 0.00 0.00 0.00 320.00 | 1,000.0 1,100.0 1,200.0 1,300.0 1,400.0 | 0.0 0.0 0.0 0.0 0.7 | 0.0 0.0 0.0 0.0 -0.6 | 0.0 0.0 0.0 0.0 0.7 | 0.00 0.00 0.00 0.00 1.00 | 0.00 0.00 0.00 0.00 1.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 1,500.0 1,600.0 1,700.0 1,800.0 1,900.0 | 2.00 2.00 2.00 2.00 2.00 | 320.00 320.00 320.00 320.00 320.00 | 1,500.0 1,599.9 1,699.8 1,799.8 1,899.7 | 2.7 5.3 8.0 10.7 13.4 | -2.2 -4.5 -6.7 -9.0 -11.2 | 2.7 5.4 8.1 10.7 13.4 | 1.00 0.00 0.00 0.00 0.00 | 1.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 2,000.0 2,100.0 2,200.0 2,300.0 2,400.0 | 2.00 2.00 2.00 2.00 2.00 2.00 | 320.00 320.00 320.00 320.00 320.00 | 1,999.7 2,099.6 2,199.5 2,299.5 2,399.4 | 16.0 18.7 21.4 24.1 26.7 | -13.5 -15.7 -17.9 -20.2 -22.4 | 16.1 18.8 21.5 24.2 26.9 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 2,500.0 2,600.0 2,700.0 2,800.0 2,900.0 | 2.00 2.00 2.00 2.00 2.00 2.00 | 320.00 320.00 320.00 320.00 320.00 320.00 | 2,499.4 2,599.3 2,699.2 2,799.2 2,899.1 | 29.4 32.1 34.8 37.4 40.1 | -24.7 -26.9 -29.2 -31.4 -33.6 | 29.5 32.2 34.9 37.6 40.3 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 3,000.0 3,100.0 3,200.0 3,300.0 3,400.0 | 2.00 2.00 2.00 2.00 2.00 2.00 | 320.00 320.00 320.00 320.00 320.00 320.00 | 2,999.0 3,099.0 3,198.9 3,298.9 3,398.8 | 42.8 45.4 48.1 50.8 53.5 | -35.9 -38.1 -40.4 -42.6 -44.9 | 43.0 45.7 48.3 51.0 53.7 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 3,501.3 3,600.0 3,700.0 3,800.0 3,900.0 | 2.00 2.49 3.24 4.12 5.05 | 320.00 296.90 282.71 274.18 268.72 | 3,500.0 3,598.7 3,698.5 3,798.3 3,898.0 | 56.2 58.5 60.1 61.0 61.1 | -47.1 -50.2 -54.8 -61.2 -69.2 | 56.4 58.7 60.4 61.3 61.5 | 0.00 1.03 1.03 1.03 1.03 | 0.00 0.49 0.75 0.88 0.93 | 0.00 -23.39 -14.19 -8.52 -5.46 |
| 4,000.0 4,100.0 4,200.0 4,300.0 4,400.0 | 6.02 7.00 8.00 9.00 10.01 | 264.99 262.29 260.25 258.67 257.40 | 3,997.5 4,096.9 4,196.0 4,294.9 4,393.6 | 60.6 59.3 57.3 54.6 51.1 | -78.8 -90.1 -103.0 -117.5 -133.6 | 61.0 59.8 57.8 55.2 51.9 | 1.03 1.03 1.03 1.03 1.03 | 0.97 0.98 1.00 1.00 1.01 | -3.74 -2.70 -2.03 -1.58 -1.27 |
| 4,500.0 4,600.0 4,700.0 4,747.6 4,800.0 | 11.02 12.04 13.06 13.54 13.54 | 256.36 255.50 254.77 254.46 254.46 | 4,491.9 4,589.9 4,687.5 4,733.8 4,784.7 | 47.0 42.1 36.5 33.6 30.4 | -151.4 -170.8 -191.8 -202.4 -214.2 | 47.8 43.1 37.6 34.7 31.5 | 1.03 1.03 1.03 1.03 0.00 | 1.01 1.02 1.02 1.02 0.00 | -1.04 -0.86 -0.73 -0.65 0.00 |
| 4,900.0 5,000.0 5,100.0 5,200.0 | 13.54 13.54 13.54 13.54 | 254.46 254.46 254.46 254.46 | 4,882.0 4,979.2 5,076.4 5,173.6 | 24.1 17.8 11.5 5.3 | -236.7 -259.3 -281.8 -304.4 | 25.4 19.2 13.1 6.9 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |

03/29/22 02:43:25PM



Intrepid Planning Report



| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Nailed It Fed Com #102H |
|-----------|----------------------------------|------------------------------|------------------------------|
| Company: | Tap Rock Resources, LLC | TVD Reference: | KB @ 3045.0usft |
| Project: | Eddy County, NM (NAD 83 NME) | MD Reference: | KB @ 3045.0usft |
| Site: | (Nailed It) Sec-36_T-26-S_R-30-E | North Reference: | Grid |
| Well: | Nailed It Fed Com #102H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|---|--|--|---|---|--|---|---|---|--|
| 5,300.0 | 13.54 | 254.46 | 5,270.8 | -1.0 | -327.0 | 0.8 | 0.00 | 0.00 | 0.00 |
| 5,400.0 5,500.0 5,600.0 5,700.0 | 13.54 13.54 13.54 13.54 | 254.46 254.46 254.46 254.46 | 5,368.1 5,465.3 5,562.5 5,659.7 | -7.3 -13.6 -19.8 -26.1 | -349.5 -372.1 -394.6 -417.2 | -5.4 -11.6 -17.7 -23.9 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 |
| 5,739.2 5.800.0 | 13.54 | 254.46 | 5,697.8 | -28.6 | -426.0 | -26.3 | 0.00 | 0.00 | 0.00 |
| 5,800.0 5,900.0 6,000.0 6,100.0 6,200.0 | 12.92 11.89 10.85 9.82 8.79 | 254.46 254.46 254.46 254.46 254.46 254.46 | 5,757.0 5,854.7 5,952.7 6,051.1 6,149.8 | -32.3 -38.1 -43.3 -48.1 -52.5 | -439.5 -460.1 -479.1 -496.4 -512.0 | -29.9 -35.6 -40.7 -45.5 -49.7 | 1.03 1.03 1.03 1.03 1.03 | -1.03 -1.03 -1.03 -1.03 -1.03 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 6,300.0 6,400.0 6,500.0 6,600.0 | 7.76 6.73 5.70 4.67 | 254.46 254.46 254.46 254.46 | 6,248.7 6,347.9 6,447.3 6,546.9 | -56.3 -59.7 -62.6 -65.0 | -525.9 -538.0 -548.5 -557.2 | -53.5 -56.8 -59.7 -62.0 | 1.03 1.03 1.03 1.03 | -1.03 -1.03 -1.03 -1.03 | 0.00 0.00 0.00 0.00 |
| 6,700.0 | 3.64 | 254.46 | 6,646.7 | -67.0 | -564.2 | -63.9 | 1.03 | -1.03 | 0.00 |
| 6,800.0 6,900.0 7,000.0 7,053.6 7,100.0 | 2.61 1.58 0.55 0.00 0.00 | 254.46 254.46 254.46 0.00 0.00 | 6,746.5 6,846.5 6,946.4 7,000.0 7,046.4 | -68.5 -69.4 -69.9 -70.0 -70.0 | -569.4 -573.0 -574.8 -575.0 -575.0 | -65.4 -66.3 -66.8 -66.9 -66.9 | 1.03 1.03 1.03 1.03 0.00 | -1.03 -1.03 -1.03 -1.03 0.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 7,200.0 | 0.00 | 0.00 | 7,146.4 | -70.0 | -575.0 | -66.9 | 0.00 | 0.00 | 0.00 |
| 7,300.0 7,400.0 7,423.6 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 7,246.4 7,346.4 7,370.0 | -70.0 -70.0 -70.0 | -575.0 -575.0 -575.0 | -66.9 -66.9 -66.9 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |
| 7,450.0 7,500.0 7,550.0 7,600.0 | 2.64 7.64 12.64 17.64 | 3.45 3.45 3.45 3.45 | 7,396.4 7,446.2 7,495.4 7,543.7 | -69.4 -64.9 -56.1 -43.1 | -575.0 -574.7 -574.2 -573.4 | -66.3 -61.8 -53.0 -40.0 | 10.00 10.00 10.00 10.00 | 10.00 10.00 10.00 10.00 | 0.00 0.00 0.00 0.00 |
| 7,650.0 7,700.0 | 22.64 27.64 | 3.45 3.45 | 7,590.6 7,635.8 | -25.9 -4.7 | -572.3 -571.1 | -22.8 -1.6 | 10.00 10.00 10.00 | 10.00 10.00 | 0.00 0.00 |
| 7,750.0 7,800.0 7,850.0 7,900.0 7,950.0 | 32.64 37.64 42.64 47.64 52.64 | 3.45 3.45 3.45 3.45 3.45 3.45 | 7,679.1 7,719.9 7,758.1 7,793.4 7,825.4 | 20.3 49.1 81.2 116.6 154.9 | -569.6 -567.8 -565.9 -563.8 -561.4 | 23.4 52.1 84.3 119.6 157.9 | 10.00 10.00 10.00 10.00 10.00 | 10.00 10.00 10.00 10.00 10.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 8,000.0 8,050.0 8,100.0 8,150.0 8,200.0 | 57.64 62.64 67.64 72.64 77.64 | 3.45 3.45 3.45 3.45 3.45 3.45 | 7,854.0 7,878.9 7,899.9 7,916.9 7,929.7 | 195.8 239.1 284.4 331.3 379.5 | -559.0 -556.4 -553.6 -550.8 -547.9 | 198.9 242.1 287.4 334.3 382.5 | 10.00 10.00 10.00 10.00 10.00 | 10.00 10.00 10.00 10.00 10.00 | 0.00 0.00 0.00 0.00 0.00 0.00 |
| 8,250.0 8,300.0 8,325.6 8,400.0 8,500.0 | 82.64 87.64 90.20 90.20 90.20 | 3.45 3.45 3.45 1.96 359.96 | 7,938.2 7,942.5 7,943.0 7,942.7 7,942.4 | 428.7 478.4 503.9 578.3 678.2 | -544.9 -541.9 -540.4 -536.9 -535.2 | 431.6 481.3 506.8 581.2 681.1 | 10.00 10.00 10.00 2.00 2.00 | 10.00 10.00 10.00 0.00 0.00 | 0.00 0.00 0.00 -2.00 -2.00 |
| 8,513.4 8,600.0 8,700.0 8,800.0 8,900.0 | 90.20 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 | 7,942.3 7,942.0 7,941.7 7,941.3 7,941.0 | 691.6 778.2 878.2 978.2 1,078.2 | -535.2 -535.7 -536.2 -536.8 -537.3 | 694.5 781.1 881.1 981.1 1,081.1 | 2.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | -2.00 0.00 0.00 0.00 0.00 |
| 9,000.0 9,100.0 9,200.0 | 90.20 90.20 90.20 | 359.69 359.69 359.69 | 7,940.6 7,940.3 7,940.0 | 1,178.2 1,278.2 1,378.2 | -537.8 -538.4 -538.9 | 1,181.1 1,281.1 1,381.1 | 0.00 0.00 0.00 | 0.00 0.00 0.00 | 0.00 0.00 0.00 |

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COMPASS 5000.15 Build 88



Intrepid Planning Report



| Database: Company: | EDM 5000.15 Single User Db Tap Rock Resources, LLC | Local Co-ordinate Reference: TVD Reference: | Well Nailed It Fed Com #102H KB @ 3045.0usft |
|-----------------------|---|--|---|
| Project: | Eddy County, NM (NAD 83 NME) | MD Reference: | KB @ 3045.0usft |
| Site: | (Nailed It) Sec-36_T-26-S_R-30-E | North Reference: | Grid |
| Well: | Nailed It Fed Com #102H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #1 | | |

Planned Survey

| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
|--|---|--|---|---|--|---|--------------------------------------|--------------------------------------|--------------------------------------|
| 9,300.0 9,400.0 | 90.20 90.20 | 359.69 359.69 | 7,939.6 7,939.3 | 1,478.2 1,578.2 | -539.5 -540.0 | 1,481.1 1,581.1 | 0.00 0.00 | 0.00 0.00 | 0.00 0.00 |
| 9,500.0 9,600.0 9,700.0 9,800.0 9,900.0 | 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 359.69 | 7,938.9 7,938.6 7,938.2 7,937.9 7,937.6 | 1,678.2 1,778.2 1,878.2 1,978.2 2,078.2 | -540.5 -541.1 -541.6 -542.1 -542.7 | 1,681.1 1,781.1 1,881.1 1,981.1 2,081.1 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 10,000.0 10,100.0 10,200.0 10,300.0 10,400.0 | 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 359.69 | 7,937.2 7,936.9 7,936.5 7,936.2 7,935.8 | 2,178.2 2,278.2 2,378.2 2,478.2 2,578.2 | -543.2 -543.7 -544.3 -544.8 -545.3 | 2,181.1 2,281.1 2,381.1 2,481.1 2,581.1 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 10,500.0 10,600.0 10,700.0 10,800.0 10,900.0 | 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 359.69 | 7,935.5 7,935.2 7,934.8 7,934.5 7,934.1 | 2,678.2 2,778.2 2,878.2 2,978.2 3,078.2 | -545.9 -546.4 -546.9 -547.5 -548.0 | 2,681.1 2,781.1 2,881.1 2,981.1 3,081.1 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 11,000.0 11,100.0 11,200.0 11,300.0 11,400.0 | 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 359.69 | 7,933.8 7,933.4 7,933.1 7,932.8 7,932.4 | 3,178.2 3,278.2 3,378.2 3,478.2 3,578.2 | -548.5 -549.1 -549.6 -550.1 -550.7 | 3,181.1 3,281.1 3,381.1 3,481.1 3,581.1 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 11,500.0 11,600.0 11,700.0 11,800.0 11,900.0 | 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 359.69 | 7,932.1 7,931.7 7,931.4 7,931.0 7,930.7 | 3,678.2 3,778.2 3,878.2 3,978.2 4,078.2 | -551.2 -551.7 -552.3 -552.8 -553.3 | 3,681.1 3,781.1 3,881.1 3,981.1 4,081.1 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |
| 12,000.0 12,100.0 12,200.0 12,300.0 12,396.8 | 90.20 90.20 90.20 90.20 90.20 | 359.69 359.69 359.69 359.69 359.69 | 7,930.4 7,930.0 7,929.7 7,929.3 7,929.0 | 4,178.2 4,278.2 4,378.2 4,478.2 4,575.0 | -553.9 -554.4 -554.9 -555.5 -556.0 | 4,181.1 4,281.1 4,381.1 4,481.1 4,577.9 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 | 0.00 0.00 0.00 0.00 0.00 |

| Target Name - hit/miss target - Shape | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude | Longitude |
|---|------------------|---------------------|------------------------|-------------------------|-----------------------|-------------------------------|-------------------|-----------------|-------------------|
| LTP (Nailed It Fed Co - plan misses targ - Point | | 0.00 26.8usft at | 7,929.0 12300.0usf | 4,505.0 t MD (7929.3 | -555.0 3 TVD, 4478 | 368,860.00 .2 N, -555.5 E) | 694,812.00 | 32° 0' 47.195 N | 103° 50' 17.403 W |
| PBHL (Nailed It Fed C - plan hits target c - Rectangle (sides | enter | | 7,929.0 .0) | 4,575.0 | -556.0 | 368,930.00 | 694,811.00 | 32° 0' 47.888 N | 103° 50' 17.411 W |
| FTP (Nailed It Fed Co - plan misses targ - Point | | 0.00 267.6usft a | 7,945.0 t 7850.1usf | -107.0 t MD (7758.2 | -530.0 2 TVD, 81.3 | 364,248.00 N, -565.9 E) | 694,837.00 | 32° 0' 1.553 N | 103° 50' 17.358 W |







| Database: | EDM 5000.15 Single User Db | Local Co-ordinate Reference: | Well Nailed It Fed Com #102H |
|-----------|----------------------------------|------------------------------|------------------------------|
| Company: | Tap Rock Resources, LLC | TVD Reference: | KB @ 3045.0usft |
| Project: | Eddy County, NM (NAD 83 NME) | MD Reference: | KB @ 3045.0usft |
| Site: | (Nailed It) Sec-36_T-26-S_R-30-E | North Reference: | Grid |
| Well: | Nailed It Fed Com #102H | Survey Calculation Method: | Minimum Curvature |
| Wellbore: | OWB | | |
| Design: | Plan #1 | | |

Formations

| Measured Depth (usft) | Vertical Depth (usft) | Name | Lithology | Dip (°) | Dip Direction (°) |
|-----------------------------|-----------------------------|----------------------|-----------|------------|-------------------------|
| 835.0 | 835.0 | Rustler Anhydrite | | | |
| 1,385.0 | 1,385.0 | Top Salt | | | |
| 3,431.2 | 3,430.0 | Base Salt | | | |
| 3,631.4 | 3,630.0 | Delaware Mountain Gp | | | |
| 3,636.4 | 3,635.0 | Lamar | | | |
| 3,656.4 | 3,655.0 | Bell Canyon | | | |
| 3,671.4 | 3,670.0 | Ramsey Sand | | | |
| 4,862.0 | 4,845.0 | Cherry Canyon | | | |
| 5,844.1 | 5,800.0 | Brushy Canyon | | | |
| 7,622.5 | 7,565.0 | Bone Spring Lime | | | |
| 7,733.5 | 7,665.0 | Upper Avalon | | | |

Plan Annotations

| Measured | Vertical | Local Coor | dinates | |
|-----------------|-----------------|-----------------|-----------------|--------------------------------|
| Depth (usft) | Depth (usft) | +N/-S (usft) | +E/-W (usft) | Comment |
| 1,300.0 | 1,300.0 | 0.0 | 0.0 | DRIFT NORTHWEST - Build 1.00 |
| 1,500.0 | 1,500.0 | 2.7 | -2.2 | HOLD - 2001.3 at 1500.0 MD |
| 3,501.3 | 3,500.0 | 56.2 | -47.1 | NUDGE - DLS 1.03 TFO -73.54 |
| 4,747.6 | 4,733.8 | 33.6 | -202.4 | HOLD - 991.6 at 4747.6 MD |
| 5,739.2 | 5,697.8 | -28.6 | -426.0 | DROP1.03 |
| 7,053.6 | 7,000.0 | -70.0 | -575.0 | HOLD - 370.0 at 7053.6 MD |
| 7,423.6 | 7,370.0 | -70.0 | -575.0 | KOP - Build 10.00 |
| 8,325.6 | 7,943.0 | 503.9 | -540.4 | EOC/TRN - DLS 2.00 TFO -90.05 |
| 8,513.4 | 7,942.3 | 691.6 | -535.2 | Start 3883.5 hold at 8513.4 MD |
| 12,396.8 | 7,929.0 | 4,575.0 | -556.0 | TD at 12396.8 |

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

| OPERATOR'S NAME: | Tap Rock Operating LLC |
|-------------------------|-------------------------|
| WELL NAME & NO.: | Nailed It Fed Com 102H |
| LOCATION: | Sec 36-26S-30E-NMP |
| COUNTY: | Eddy County, New Mexico |

COA

| H2S | C Yes | 🖸 No | | |
|---------------|-----------------|-------------------|--------------|--------------|
| Potash / WIPP | None | C Secretary | C R-111-P | WIPP |
| Cave / Karst | C Low | Medium | C High | Critical |
| Wellhead | C Conventional | • Multibowl | C Both | C Diverter |
| Cementing | Primary Squeeze | 🗖 Cont. Squeeze | EchoMeter | DV Tool |
| Special Req | □ Break Testing | Water Disposal | COM | 🗖 Unit |
| Variance | • Flex Hose | Casing Clearance | Pilot Hole | Capitan Reef |
| Variance | □ Four-String | Offline Cementing | Fluid Filled | Open Annulus |

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately 910 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of <u>8 hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.

- 2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, potash or capitan reef.
 - In <u>Medium Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000** (**5M**) psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

• The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.

- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in Onshore Order 1 and 2.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. <u>When the</u> <u>Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- Lea CountyCall the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)689-5981
- 1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the

rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.
- A. CASING
- Changes to the approved APD casing program need prior approval if the items substituted are
 of lesser grade or different casing size or are Non-API. The Operator can exchange the
 components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or
 from 36# to 40#). Changes to the approved cement program need prior approval if the
 altered cement plan has less volume or strength or if the changes are substantial (i.e.
 Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well
 with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.

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- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.

- a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
- b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
- c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test

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prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area.

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.



Hydrogen Sulfide Drilling

Operations Plan

Tap Rock Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
 - o Green Flag Normal Safe Operation Condition
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 <u>Well Control Equipment:</u>

• See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.



7 Drilling Stem Testing:

• No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

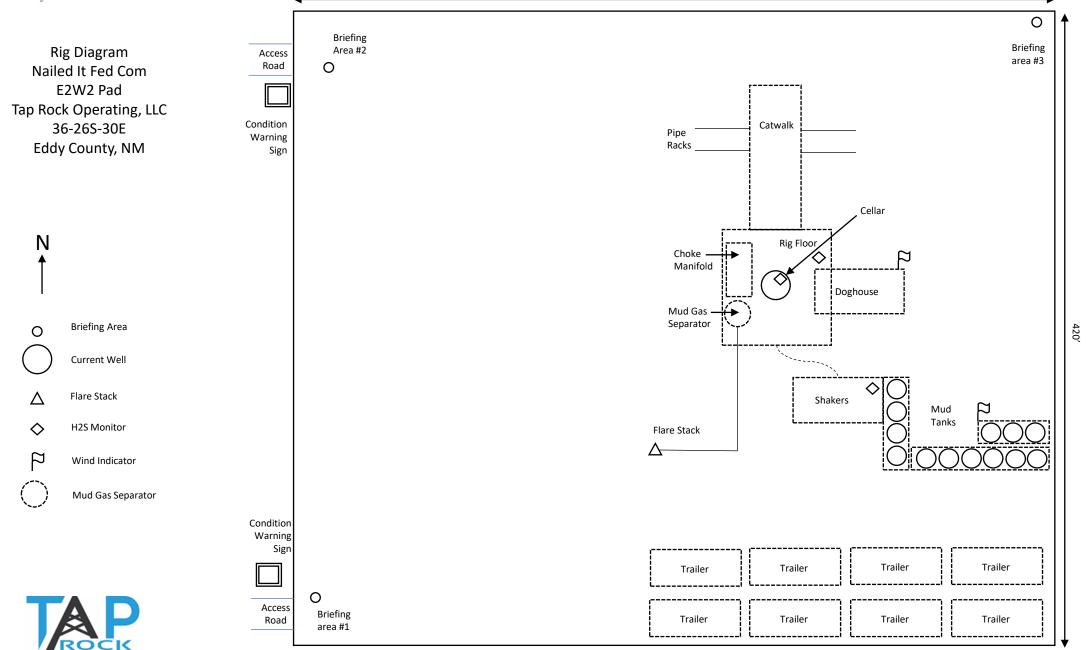
11 Emergency Contacts

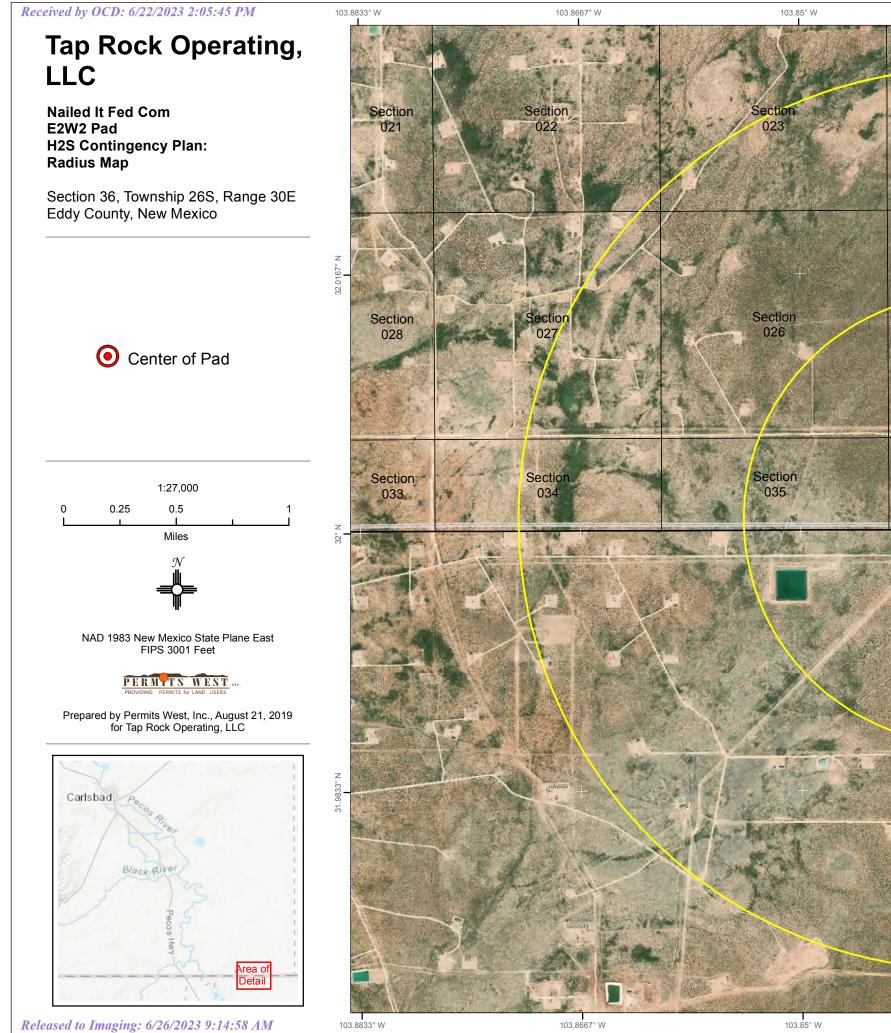
| Emergency Contacts | | | | | |
|----------------------------|--------------|-----|--|--|--|
| Carlsbad Police Department | 575.887.7551 | 911 | | | |
| Carlsbad Medical Center | 575.887.4100 | 911 | | | |
| Eddy County Fire Service | 575.628.5450 | 911 | | | |
| Eddy County Sherriff | 575.887.7551 | 911 | | | |
| Lea County Fire Service | 575.391.2983 | 911 | | | |
| Lea County Sherriff | 575.396.3611 | 911 | | | |
| Jal Police Department | 575.395.2121 | 911 | | | |
| Jal Fire Department | 575.395.2221 | 911 | | | |
| Tap Rock Resources | 720.772.5090 | | | | |

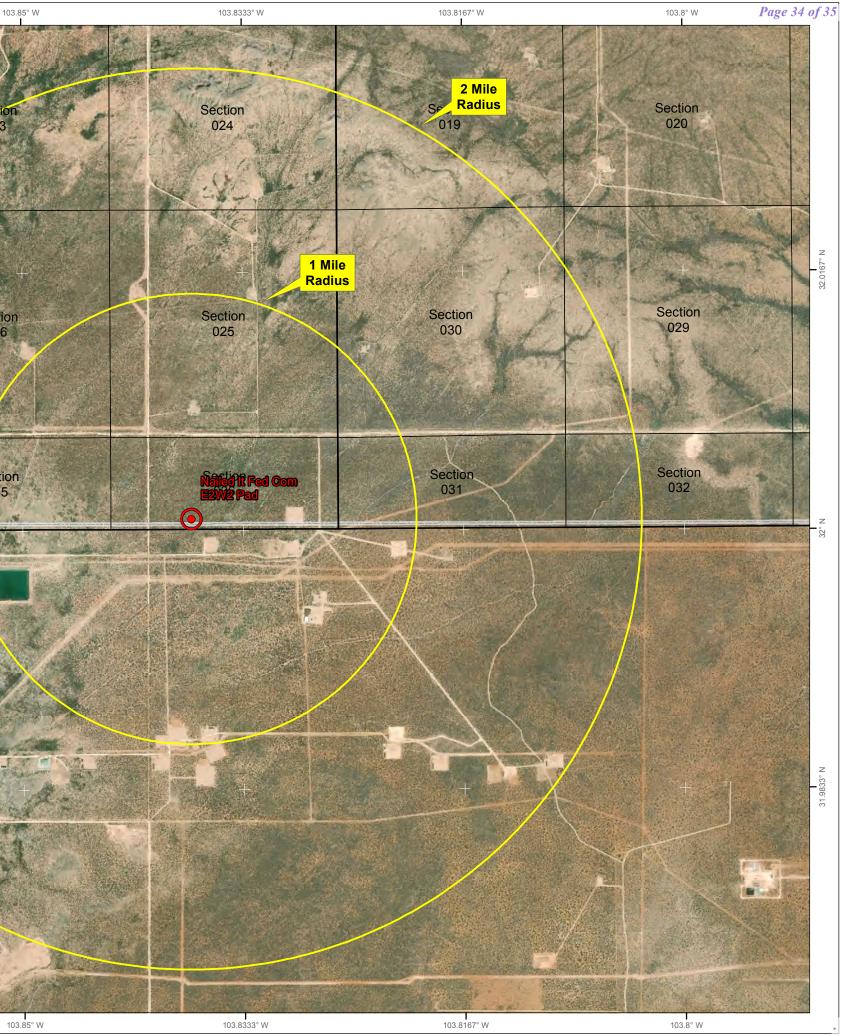


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District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 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

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CONDITIONS

Action 231807

CONDITIONS

| Operator: | OGRID: |
|-------------------------|---|
| TAP ROCK OPERATING, LLC | 372043 |
| 523 Park Point Drive | Action Number: |
| Golden, CO 80401 | 231807 |
| | Action Type: |
| | [C-101] BLM - Federal/Indian Land Lease (Form 3160-3) |

CONDITIONS

| Comprision | | |
|-------------|--|-------------------|
| Created By | Condition | Condition Date |
| ward.rikala | Notify OCD 24 hours prior to casing & cement | 6/26/2023 |
| ward.rikala | Will require a File As Drilled C-102 and a Directional Survey with the C-104 | 6/26/2023 |
| ward.rikala | Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string | 6/26/2023 |
| ward.rikala | Cement is required to circulate on both surface and intermediate1 strings of casing | 6/26/2023 |
| ward.rikala | Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system | 6/26/2023 |