

|                              |                                                                         |                                    |
|------------------------------|-------------------------------------------------------------------------|------------------------------------|
| Well Name: NAILED IT FED COM | Well Location: T26S / R30E / SEC 36 / LOT 4 / 32.0009916 / -103.8420742 | County or Parish/State: GRANT / NM |
| Well Number: 151H            | Type of Well: CONVENTIONAL GAS WELL                                     | Allottee or Tribe Name:            |
| Lease Number: NMNM138850     | Unit or CA Name:                                                        | Unit or CA Number:                 |
| US Well Number: 3001546881   | Well Status: Approved Application for Permit to Drill                   | Operator: TAP ROCK OPERATING LLC   |

Notice of Intent

|                                                |                              |
|------------------------------------------------|------------------------------|
| Type of Submission: Notice of Intent           | Type of Action Other         |
| Date Sundry Submitted: 03/22/2021              | Time Sundry Submitted: 09:29 |
| Date proposed operation will begin: 03/22/2021 |                              |

**Procedure Description:** Tap Rock is requesting permission to change the Name, SHL, depth/formation, and casing design for this well. Tap Rock is requesting the well name be changed from the Nailed it Fed Com 241H to the Nailed it Fed Com 151H. Previous approved SHL: 305 FSL, 384 FWL of Section 36, T26S, R30E New proposed SHL: 305 FSL, 489 FWL of Section 36, T26S, R30E Previously Approved Depth and Formation: 16486 ft, Purple Sage Wolfcamp New proposed Depth and Formation: 14448 ft, Bonespring A three-string design will be employed instead of the previously approved four string. The new drilling plan detailing this plan is attached for review. No additional surface is to be disturbed by this sundry.

Surface Disturbance

Is any additional surface disturbance proposed?: No

NOI Attachments

Procedure Description

Nailed\_It\_Fed\_Com\_151H\_Sundry\_Attachments\_20210322092838.pdf

|                                     |                                                                                |                                           |
|-------------------------------------|--------------------------------------------------------------------------------|-------------------------------------------|
| <b>Well Name:</b> NAILED IT FED COM | <b>Well Location:</b> T26S / R30E / SEC 36 / LOT 4 / 32.0009916 / -103.8420742 | <b>County or Parish/State:</b> GRANT / NM |
| <b>Well Number:</b> 151H            | <b>Type of Well:</b> CONVENTIONAL GAS WELL                                     | <b>Allottee or Tribe Name:</b>            |
| <b>Lease Number:</b> NMNM138850     | <b>Unit or CA Name:</b>                                                        | <b>Unit or CA Number:</b>                 |
| <b>US Well Number:</b> 3001546881   | <b>Well Status:</b> Approved Application for Permit to Drill                   | <b>Operator:</b> TAP ROCK OPERATING LLC   |

Operator Certification

I certify that the foregoing is true and correct. Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

|                                                       |                                         |
|-------------------------------------------------------|-----------------------------------------|
| <b>Operator Electronic Signature:</b> BILL RAMSEY     | <b>Signed on:</b> MAR 22, 2021 09:29 AM |
| <b>Name:</b> TAP ROCK OPERATING LLC                   |                                         |
| <b>Title:</b> Regulatory Analyst                      |                                         |
| <b>Street Address:</b> 523 PARK POINT DRIVE SUITE 200 |                                         |
| <b>City:</b> GOLDEN                                   | <b>State:</b> CO                        |
| <b>Phone:</b> (720) 360-4028                          |                                         |
| <b>Email address:</b> BRAMSEY@TAPRK.COM               |                                         |

Field Representative

|                             |               |             |
|-----------------------------|---------------|-------------|
| <b>Representative Name:</b> |               |             |
| <b>Street Address:</b>      |               |             |
| <b>City:</b>                | <b>State:</b> | <b>Zip:</b> |
| <b>Phone:</b>               |               |             |
| <b>Email address:</b>       |               |             |

BLM Point of Contact

|                                        |                                              |
|----------------------------------------|----------------------------------------------|
| <b>BLM POC Name:</b> CHRISTOPHER WALLS | <b>BLM POC Title:</b> Petroleum Engineer     |
| <b>BLM POC Phone:</b> 5752342234       | <b>BLM POC Email Address:</b> cwalls@blm.gov |
| <b>Disposition:</b> Approved           | <b>Disposition Date:</b> 04/15/2021          |
| <b>Signature:</b> Chris Walls          |                                              |

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 Fax: (505) 476-3462

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

SHL CHANGE

## WELL LOCATION AND ACREAGE DEDICATION PLAT

|                                         |                                                        |                                                            |
|-----------------------------------------|--------------------------------------------------------|------------------------------------------------------------|
| <sup>1</sup> API Number<br>30-015-46881 | <sup>2</sup> Pool Code<br>98319                        | <sup>3</sup> Pool Name<br>WC 015 G 06 S242630A;Bone Spring |
| <sup>4</sup> Property Code              | <sup>5</sup> Property Name<br>NAILED IT FED COM        | <sup>6</sup> Well Number<br>151H                           |
| <sup>7</sup> OGRID No.<br>372043        | <sup>8</sup> Operator Name<br>TAP ROCK OPERATING, LLC. | <sup>9</sup> Elevation<br>3008'                            |

<sup>10</sup>Surface Location

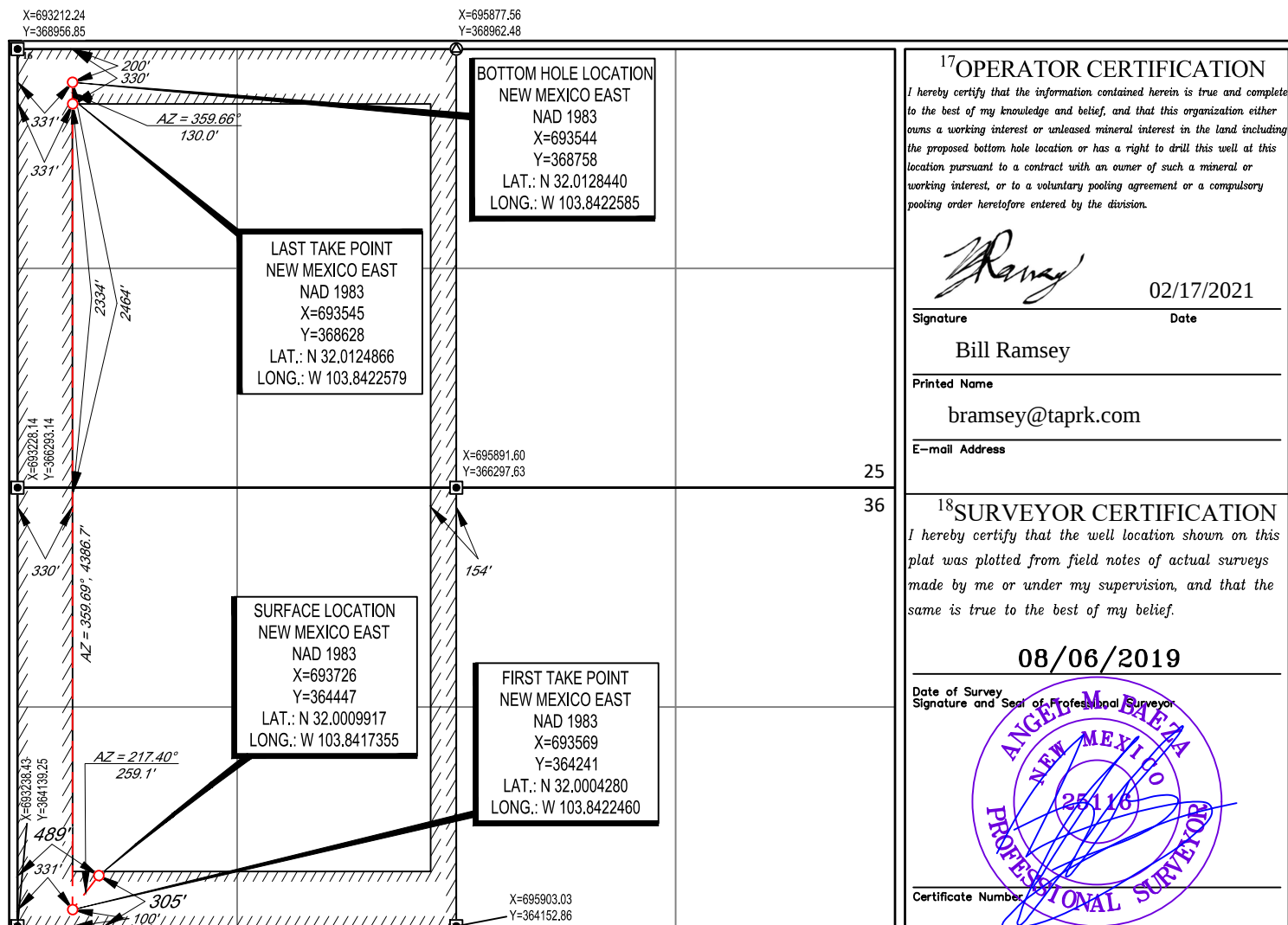
| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| 4             | 36      | 26-S     | 30-E  | -       | 305'          | SOUTH            | 489'          | WEST           | EDDY   |

<sup>11</sup>Bottom Hole Location If Different From Surface

| UL or lot no. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| L             | 25      | 26-S     | 30-E  | -       | 2464'         | SOUTH            | 331'          | WEST           | EDDY   |

|                               |                               |                                  |                         |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|
| <sup>12</sup> Dedicated Acres | <sup>13</sup> Joint or Infill | <sup>14</sup> Consolidation Code | <sup>15</sup> Order No. |
|-------------------------------|-------------------------------|----------------------------------|-------------------------|

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.

<sup>17</sup>OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

*Bill Ramsey*

02/17/2021

Signature

Date

Bill Ramsey

Printed Name

bramsey@taprk.com

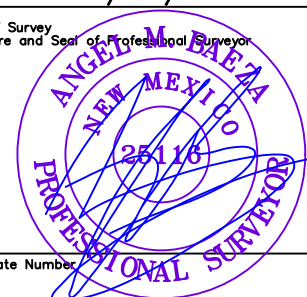
E-mail Address

<sup>18</sup>SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true to the best of my belief.

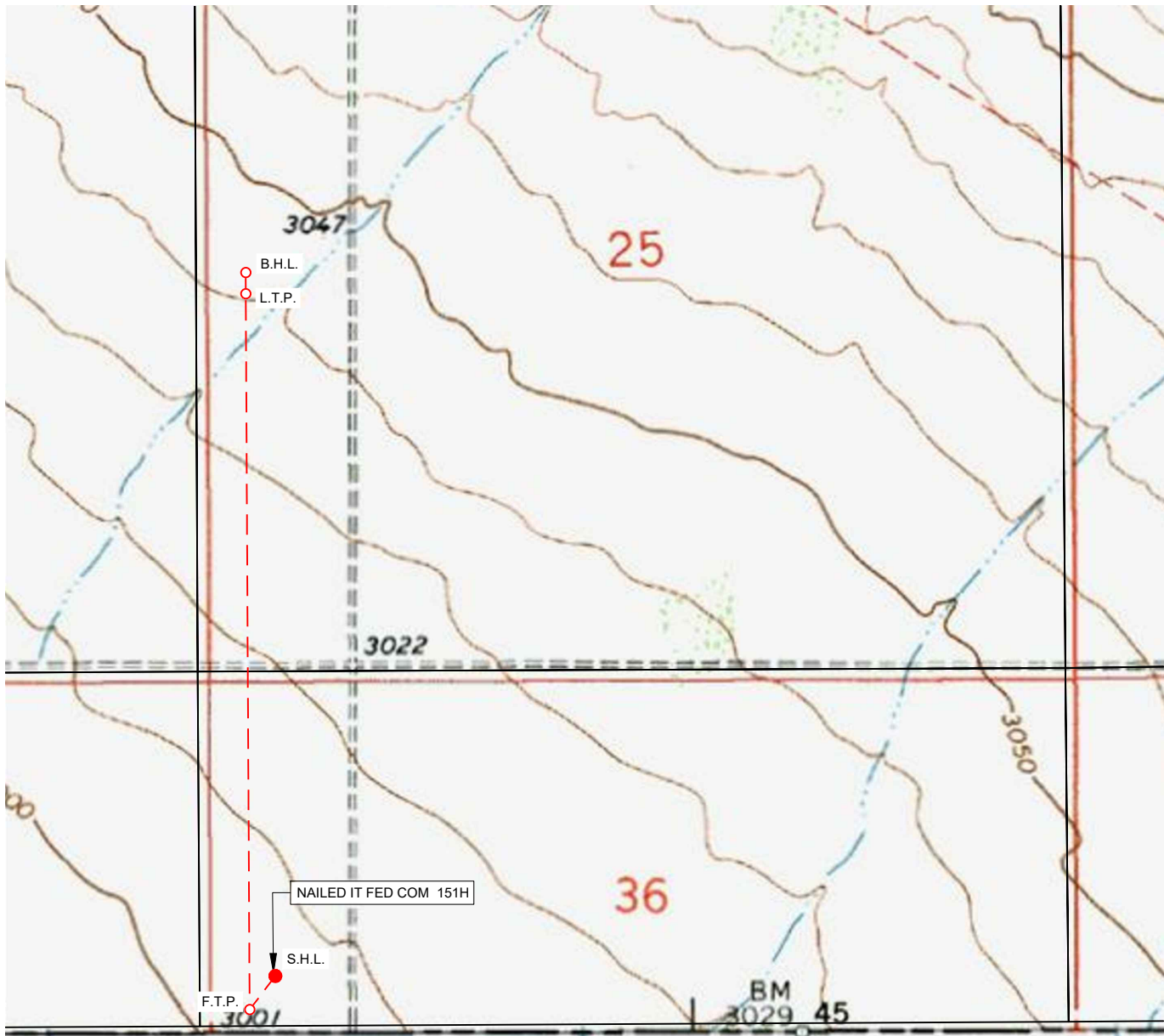
08/06/2019

Date of Survey  
Signature and Seal of Professional Surveyor



Certificate Number

## LOCATION &amp; ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: NAILED IT FED COM 151H

SECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM ELEVATION 3008'  
 DESCRIPTION 305' FSL & 489' FWL

LATITUDE N 32.0009917 LONGITUDE W 103.8417355

SCALE: 1" = 1000'  
 0' 500' 1000'

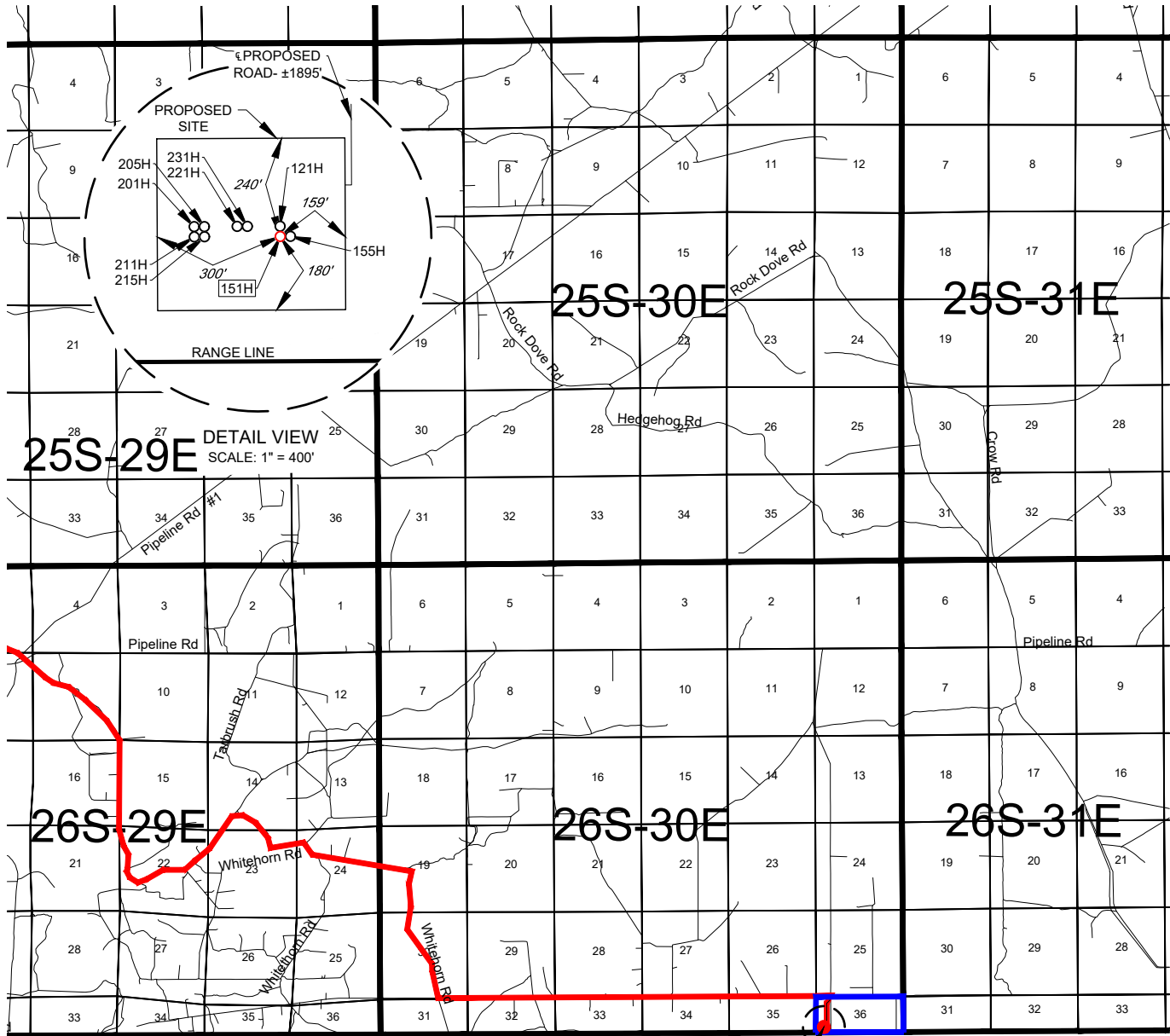
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.



**TOPOGRAPHIC**  
 LOYALTY INNOVATION LEGACY

1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
 WWW.TOPOGRAPHIC.COM

EXHIBIT 2  
VICINITY MAPLEASE NAME & WELL NO.: NAILED IT FED COM 151HSECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M.COUNTY EDDY STATE NMDESCRIPTION 305' FSL & 489' FWL

## DISTANCE &amp; DIRECTION

FROM INT. OF US-285 & COUNTY RD 720, GO SOUTH ON US-285  $\pm 12.6$  MILES, THENCE EAST (LEFT) ON WHITEHORN RD.  $\pm 2.4$  MILES, THENCE NORTH (LEFT) ON LONGHORN RD.  $\pm 1.9$  MILES, THENCE SOUTH (RIGHT) ON WHITEHORN RD.  $\pm 3.3$  MILES, THENCE NORTHEAST (LEFT) ON LEASE RD.  $\pm 5.5$  MILES, THENCE EAST (LEFT) ON STATE LINE RD.  $\pm 4.5$ , THENCE SOUTH ON A PROPOSED RD.  $\pm 1893$  FEET TO A POINT  $\pm 189$  FEET NORTHEAST OF THE LOCATION.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM, EAST ZONE OF THE NORTH AMERICAN DATUM 1983, U.S. SURVEY FEET.

NAILED IT FED COM 151H

SEE  
DETAIL

SCALE: 1" = 10000'

0' 5000' 10000'



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

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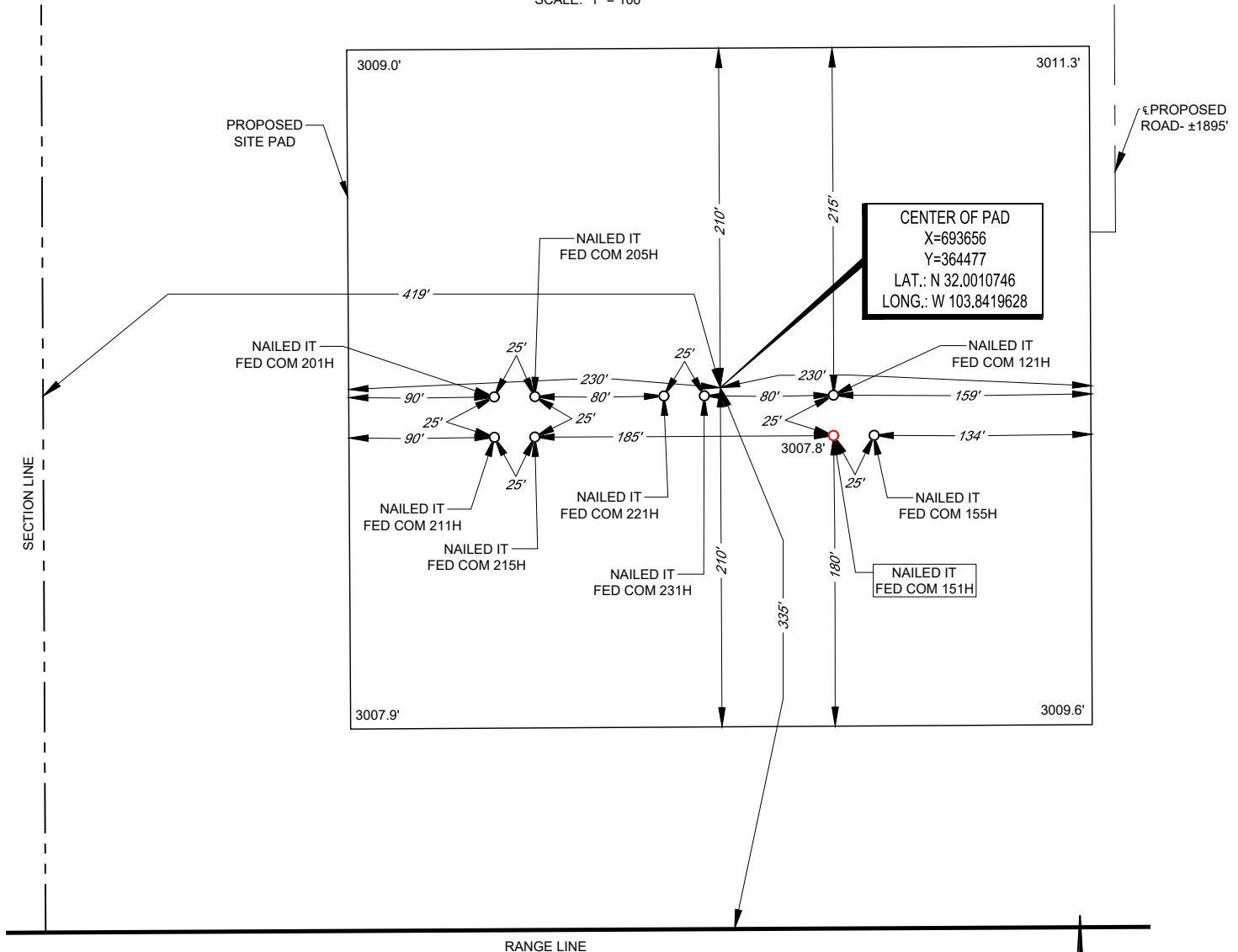
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## EXHIBIT 2B



SECTION 36, TOWNSHIP 26-S, RANGE 30-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: \_\_\_\_\_ NAILED IT FED COM 151H  
151H LATITUDE \_\_\_\_\_ N 32.0009917 \_\_\_\_\_ 151H LONGITUDE \_\_\_\_\_ W 103.8417355

CENTER OF PAD IS 335' FSL & 419' FWL



Angel M. Baeza, P.S. No. 25116

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

Released to Imaging: 5/27/2021 9:36:35 AM

S:\SURVEY\TAPROCK\NAILED\_IT\_UNIT\FINAL\_PRODUCTS\SILO\_NAILED\_IT\_FED\_COM\_151H.DWG 2/1/2021 2:48:29 PM abaeza



1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
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1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Submit Original  
to Appropriate  
District Office

### GAS CAPTURE PLAN

Date: 2/17/2021

☐ Original Operator & OGRID No.: 372043  
☒ Amended - Reason for Amendment: New location/name change.

This Gas Capture Plan outlines actions to be taken by the Operator to reduce well/production facility flaring/venting for new completion (new drill, recomple to new zone, re-frac) activity.

*Note: Form C-129 must be submitted and approved prior to exceeding 60 days allowed by Rule (Subsection A of 19.15.18.12 NMAC).*

#### Well(s)/Production Facility – Name of facility

The well(s) that will be located at the production facility are shown in the table below.

| Well Name               | API          | Well Location (ULSTR)  | Footages             | Expected MCF/D | Flared or Vented | Comments                                                                                                                            |
|-------------------------|--------------|------------------------|----------------------|----------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Nailed It Fed Com #151H | 30-015-46881 | 4 Sec 36 T.26S. R.305E | 305' FSL<br>489' FWL | +/- 1,600      | 21 days          | Gas will be flared for ~21 days during flowback before being turned to the TB. Time est. depends on sales connect and well cleanup. |

#### Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to Salt Creek Midstream and will be connected to Salt Creek Midstream low/high pressure gathering system located in Eddy County, New Mexico. It will require ~15,000' of pipeline to connect the facility to low/high pressure gathering system. Tap Rock Operating, LLC provides (periodically) to Salt Creek Midstream a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, Tap Rock Operating, LLC and Salt Creek Midstream have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at Salt Creek Midstream Processing Plant located in Reeves County, Texas. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

#### Flowback Strategy

After the fracture treatment/completion operations, well(s) will be produced to temporary production tanks and gas will be flared or vented. During flowback, the fluids and sand content will be monitored. When the produced fluids contain minimal sand, the wells will be turned to production facilities. Gas sales should start as soon as the wells start flowing through the production facilities, unless there are operational issues on Salt Creek Midstream's system at that time. Based on current information, it is . Tap Rock Operating, LLC's belief the system can take this gas upon completion of the well(s).

Safety requirements during cleanout operations from the use of underbalanced air cleanout systems may necessitate that sand and non-pipeline quality gas be vented and/or flared rather than sold on a temporary basis.

#### Alternatives to Reduce Flaring

Below are alternatives considered from a conceptual standpoint to reduce the amount of gas flared.

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease

- Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines



Drilling Operations Plan  
 Nailed It Fed Com 151H  
 Tap Rock Operating, LLC  
 SHL 305' FSL & 489' FWL, Sec. 36  
 BHL 2464' FSL & 331' FWL, Sec. 25  
 T. 26S., R. 30E, Eddy County, NM

Elevation above Sea Level: 3008'

## **DRILLING PROGRAM**

### **1. Estimated Tops**

| Formation            | TVD   | MD    | Lithologies | Bearing      |
|----------------------|-------|-------|-------------|--------------|
| Quaternary Deposits  | 0     | 0     | Surface     | None         |
| Rustler Anhydrite    | 823   | 823   |             | Salt         |
| Salado               | 1375  | 1375  | Salt        | Salt         |
| Base Salt            | 3418  | 3425  |             | Salt         |
| Lamar                | 3624  | 3631  | Limestone   | None         |
| Bell Canyon          | 3645  | 3652  | Sandstone   | Hydrocarbons |
| Cherry Canyon        | 4834  | 4846  | Sandstone   | Hydrocarbons |
| Brushy Canyon        | 5788  | 5800  | Sandstone   | Hydrocarbons |
| Bone Spring          | 7555  | 7567  | Limestone   | Hydrocarbons |
| KOP                  | 9496  | 9508  | Sandstone   | Hydrocarbons |
| 3rd Bone Spring Carb | 9719  | 9737  | Sandstone   | Hydrocarbons |
| TD                   | 10077 | 14448 | Shale       | Hydrocarbons |

### **2. Notable Zones**

Bone Springs is the target formation.

### **3. Pressure Control**

Pressure Control Equipment (See Schematics):

A 15,000', 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 nipped 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:



Drilling Operations Plan  
Nailed It Fed Com 151H  
Tap Rock Operating, LLC  
SHL 305' FSL & 489' FWL, Sec. 36  
BHL 2464' FSL & 331' FWL, Sec. 25  
T. 26S., R. 30E, Eddy County, NM

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, 1<sup>st</sup> intermediate and cementing 1<sup>st</sup> 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.



Drilling Operations Plan  
 Nailed It Fed Com 151H  
 Tap Rock Operating, LLC  
 SHL 305' FSL & 489' FWL, Sec. 36  
 BHL 2464' FSL & 331' FWL, Sec. 25  
 T. 26S., R. 30E, Eddy County, NM

#### 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      | 898       | 0       | 898     | J-55  | 54.5   | BUTT   | 1.13     | 1.15  | 1.6     |
| 1st Intermediate | 12 1/4    | 9 5/8       | API      | No      | 0      | 3656      | 0       | 3649    | J-55  | 40     | BUTT   | 1.13     | 1.15  | 1.6     |
| Production       | 8 1/2     | 5 1/2       | NON API  | No      | 0      | 14448     | 0       | 10077   | P-110 | 20     | TXP    | 1.13     | 1.15  | 1.6     |

| Name             | Type | Top MD | Sacks | Yield | Cu. Ft | Weight | Excess | Cement | Additives                                |
|------------------|------|--------|-------|-------|--------|--------|--------|--------|------------------------------------------|
| Surface          | Tail | 0      | 924   | 1.35  | 1247   | 14.8   | 100%   | C      | 5% NCI + LCM                             |
| 1st Intermediate | Lead | 0      | 693   | 2.18  | 1511   | 12.7   | 65%    | C      | Bentonite + 1% CaCL2 + 8% NaCl + LCM     |
|                  | Tail | 2656   | 284   | 1.33  | 378    | 14.8   | 65%    | C      | 5% NaCl + LCM                            |
| Production       | Tail | 3156   | 2088  | 1.71  | 3570   | 14.2   | 25%    | H      | Fluid Loss + Dispersant + Retarder + LCM |

#### 5. Mud Program

| Name         | Top  | Bottom | Type        | Mud Weight | Visc  | Fluid Loss |
|--------------|------|--------|-------------|------------|-------|------------|
| Surface      | 0    | 898    | FW Spud Mud | 8.30       | 28    | NC         |
| Intermediate | 898  | 3656   | Brine Water | 10.00      | 30-32 | NC         |
| Production   | 3656 | 14448  | Cut Brine   | 9.00       | 28-40 | <10        |

| Name         | Top  | Bottom | Type          | Mud Weight | Visc  | Fluid Loss |
|--------------|------|--------|---------------|------------|-------|------------|
| Surface      | 0    | 898    | FW Spud Mud   | 8.30       | 28    | NC         |
| Intermediate | 898  | 3656   | Brine Water   | 10.00      | 30-32 | NC         |
| Production   | 3656 | 14448  | 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.



Drilling Operations Plan  
Nailed It Fed Com 151H  
Tap Rock Operating, LLC  
SHL 305' FSL & 489' FWL, Sec. 36  
BHL 2464' FSL & 331' 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  $\approx 4,716$  psi. Expected bottom hole temperature is  $\approx 170^{\circ}$  F.

Tap Rock does not anticipate that there will be enough H<sub>2</sub>S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H<sub>2</sub>S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H<sub>2</sub>S safety package on all wells and an "H<sub>2</sub>S 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.

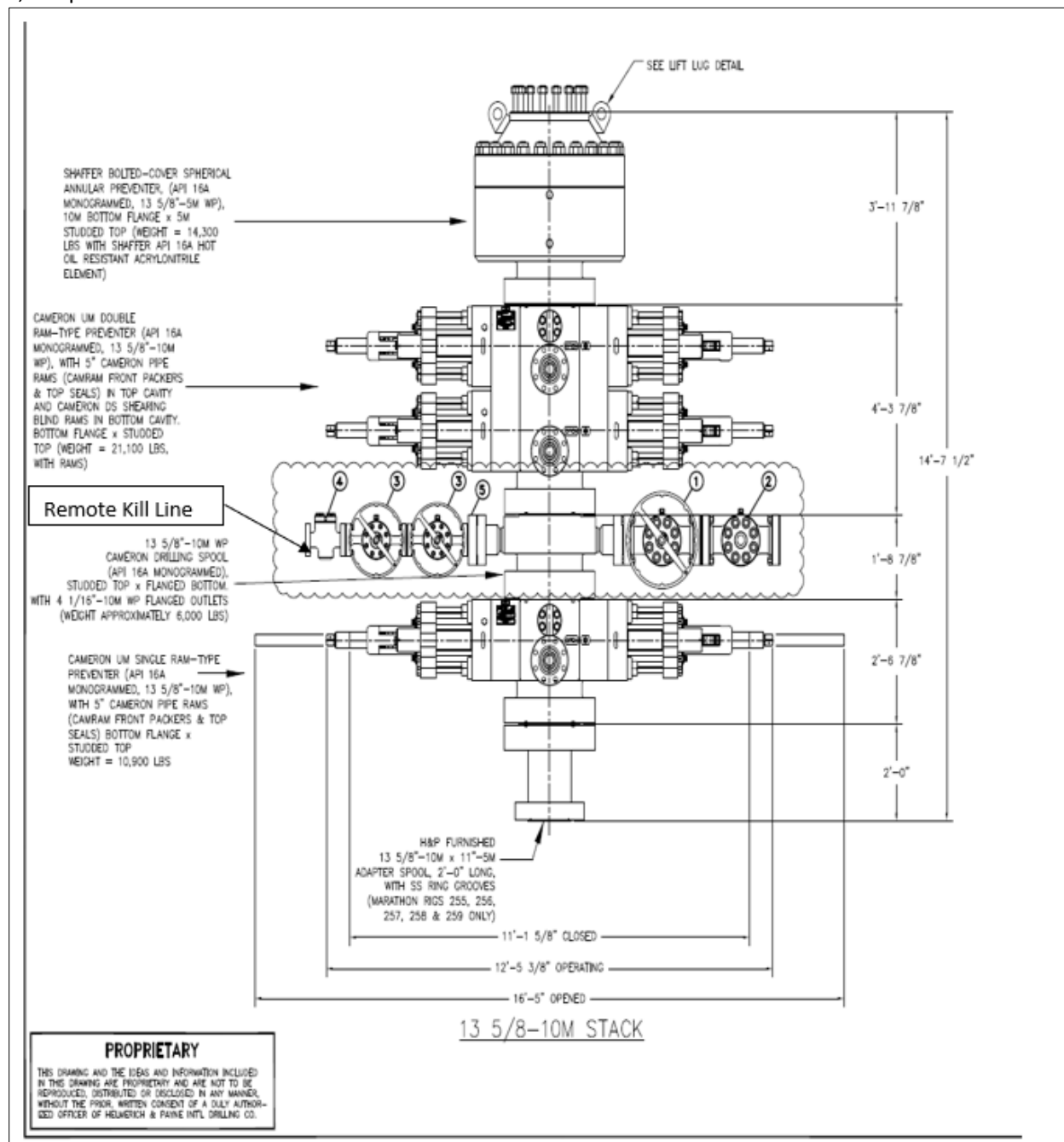
**8. Other**

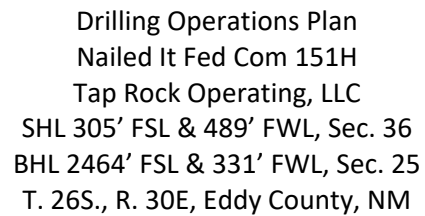
Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



Drilling Operations Plan  
 Nailed It Fed Com 151H  
 Tap Rock Operating, LLC  
 SHL 305' FSL & 489' FWL, Sec. 36  
 BHL 2464' FSL & 331' FWL, Sec. 25  
 T. 26S., R. 30E, Eddy County, NM

5,000 psi BOP Stack

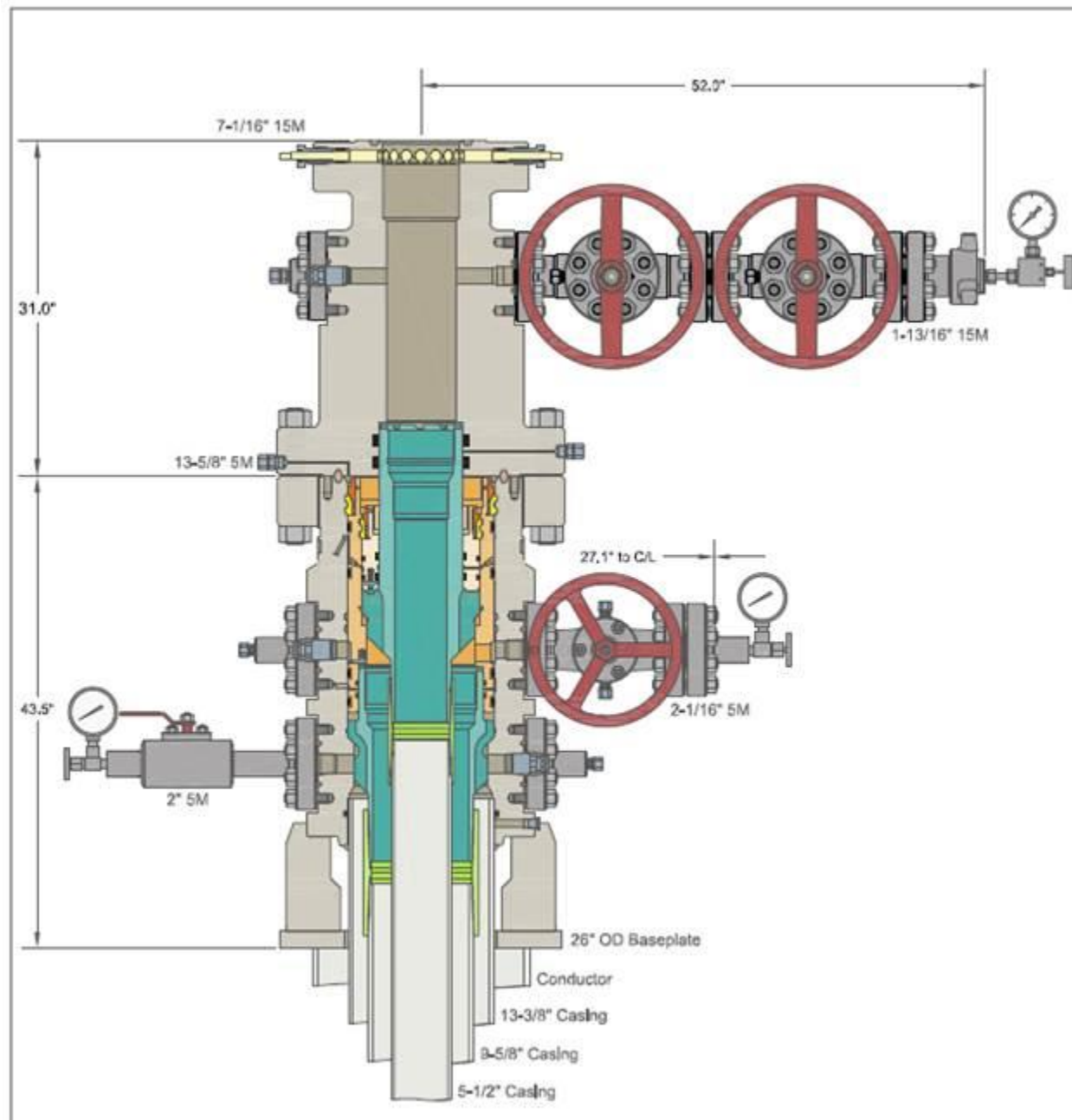






Drilling Operations Plan  
Nailed It Fed Com 151H  
Tap Rock Operating, LLC  
SHL 305' FSL & 489' FWL, Sec. 36  
BHL 2464' FSL & 331' FWL, Sec. 25  
T. 26S., R. 30E, Eddy County, NM

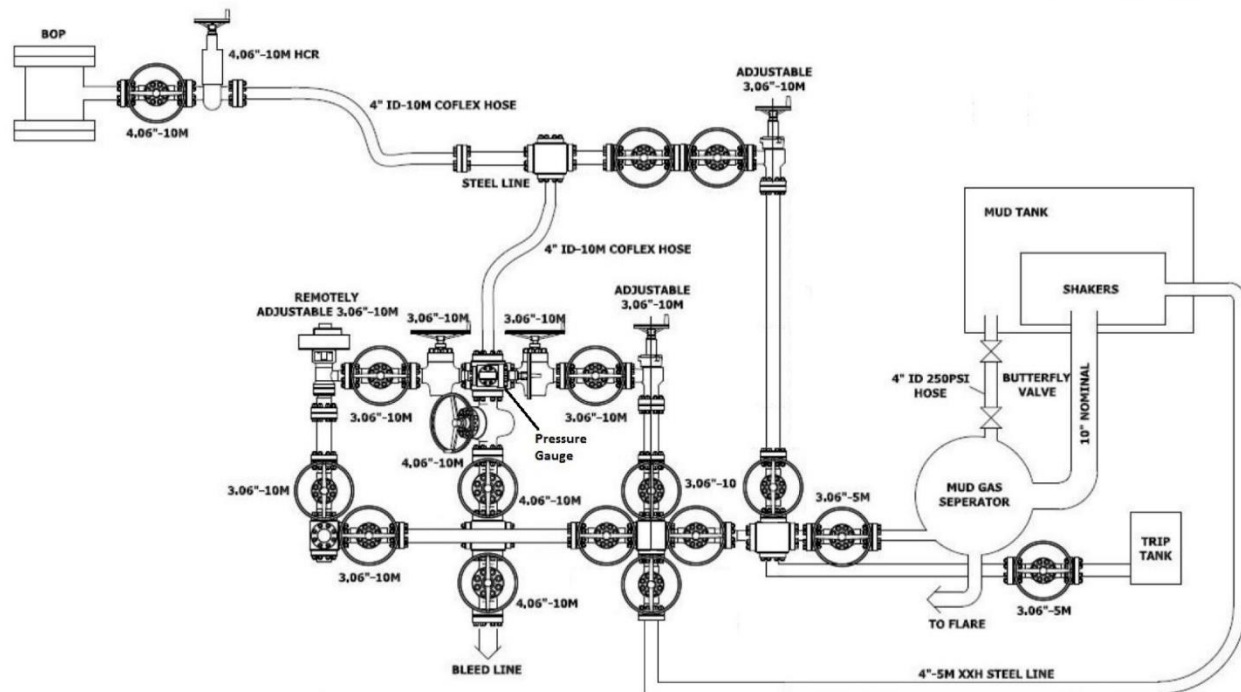
### Multi-bowl Wellhead





Drilling Operations Plan  
 Nailed It Fed Com 151H  
 Tap Rock Operating, LLC  
 SHL 305' FSL & 489' FWL, Sec. 36  
 BHL 2464' FSL & 331' FWL, Sec. 25  
 T. 26S., R. 30E, Eddy County, NM

10M Choke Layout





## Casing and Tubing Performance Data

### PIPE BODY DATA

#### GEOMETRY

|                  |              |                       |           |                            |           |
|------------------|--------------|-----------------------|-----------|----------------------------|-----------|
| Outside Diameter | 13.375 in    | Wall Thickness        | 0.380 in  | API Drift Diameter         | 12.459 in |
| Nominal Weight   | 54.50 lbs/ft | Nominal ID            | 12.615 in | Alternative Drift Diameter | n.a.      |
| Plain End Weight | 52.79 lbs/ft | Nominal cross section | 15.513 in |                            |           |

#### PERFORMANCE

|                    |            |                         |            |                   |            |
|--------------------|------------|-------------------------|------------|-------------------|------------|
| Steel Grade        | J55        | Minimum Yield           | 55,000 psi | Minimum Ultimate  | 75,000 psi |
| Tension Yield      | 853,000 in | Internal Pressure Yield | 2,730 psi  | Collapse Pressure | 1,130 psi  |
| Available Seamless | Yes        | Available Welded        | Yes        |                   |            |

### CONNECTION DATA

TYPE: BTC

#### GEOMETRY

|                 |           |                |   |                      |   |
|-----------------|-----------|----------------|---|----------------------|---|
| Coupling Reg OD | 14.375 in | Threads per in | 5 | Thread turns make up | 1 |
|-----------------|-----------|----------------|---|----------------------|---|

#### PERFORMANCE

|                |             |                    |            |                              |            |
|----------------|-------------|--------------------|------------|------------------------------|------------|
| Steel Grade    | J55         | Coupling Min Yield | 55,000 psi | Coupling Min Ultimate        | 75,000 psi |
| Joint Strength | 909,000 lbs |                    |            | Internal Pressure Resistance | 2,730 psi  |



## Casing and Tubing Performance Data

### PIPE BODY DATA

#### GEOMETRY

|                  |              |                       |           |                            |          |
|------------------|--------------|-----------------------|-----------|----------------------------|----------|
| Outside Diameter | 9.625 in     | Wall Thickness        | 0.395 in  | API Drift Diameter         | 8.679 in |
| Nominal Weight   | 40.00 lbs/ft | Nominal ID            | 8.835 in  | Alternative Drift Diameter | 8.75 in  |
| Plain End Weight | 38.97 lbs/ft | Nominal cross section | 11.454 in |                            |          |

#### PERFORMANCE

|                    |            |                         |            |                   |            |
|--------------------|------------|-------------------------|------------|-------------------|------------|
| Steel Grade        | J55        | Minimum Yield           | 55,000 psi | Minimum Ultimate  | 75,000 psi |
| Tension Yield      | 630,000 in | Internal Pressure Yield | 3,950 psi  | Collapse Pressure | 2,570 psi  |
| Available Seamless | Yes        | Available Welded        | Yes        |                   |            |

### CONNECTION DATA

TYPE: BTC

#### GEOMETRY

|                 |           |                |   |                      |   |
|-----------------|-----------|----------------|---|----------------------|---|
| Coupling Reg OD | 10.625 in | Threads per in | 5 | Thread turns make up | 1 |
|-----------------|-----------|----------------|---|----------------------|---|

#### PERFORMANCE

|                |             |                    |            |                              |            |
|----------------|-------------|--------------------|------------|------------------------------|------------|
| Steel Grade    | J55         | Coupling Min Yield | 55,000 psi | Coupling Min Ultimate        | 75,000 psi |
| Joint Strength | 714,000 lbs |                    |            | Internal Pressure Resistance | 3,950 psi  |

5.5", 20#, P-110, TXP connection (modified buttress connection that provides a torque rating of nearly 24000ft-lbs)



[SHARE](#) | [EXPORT DATA](#) | [PRINT](#)



|                                                                                                     |                                                                                                                   |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <p>Outside Diameter 5.500 in.</p> <p>Wall Thickness 0.361 in.</p> <p>Grade <a href="#">P110</a></p> | <p>Min. Wall Thickness 87.5%</p> <p>Drift API Standard</p> <p>Type Casing</p> <p>Connection OD Option REGULAR</p> |
|-----------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|

Clear Filters

Compare

Request Info

CONNECTION INFORMATION

- [> Blanking Dimensions](#)
- [> Connection's Page](#)
- [> Brochure](#)
- [> Datasheet Manual](#)

PIPE BODY DATA

GEOMETRY

|              |           |                |           |                  |              |
|--------------|-----------|----------------|-----------|------------------|--------------|
| Nominal OD   | 5.500 in. | Nominal Weight | 20 lbs/ft | Drift            | 4.653 in.    |
| Nominal ID   | 4.778 in. | Wall Thickness | 0.361 in. | Plain End Weight | 19.83 lbs/ft |
| OD Tolerance | API       |                |           |                  |              |

PERFORMANCE

|                     |               |                |           |      |            |
|---------------------|---------------|----------------|-----------|------|------------|
| Body Yield Strength | 641 x1000 lbs | Internal Yield | 12640 psi | SMYS | 110000 psi |
| Collapse            | 11100 psi     |                |           |      |            |

CONNECTION DATA

GEOMETRY

|               |           |                 |           |                      |           |
|---------------|-----------|-----------------|-----------|----------------------|-----------|
| Connection OD | 6.100 in. | Coupling Length | 9.450 in. | Connection ID        | 4.766 in. |
| Make-up Loss  | 4.204 in. | Threads per in  | 5         | Connection OD Option | REGULAR   |

PERFORMANCE

|                            |               |                      |                   |                                           |               |
|----------------------------|---------------|----------------------|-------------------|-------------------------------------------|---------------|
| Tension Efficiency         | 100.0 %       | Joint Yield Strength | 641.000 x1000 lbs | Internal Pressure Capacity <sup>[1]</sup> | 12640.000 psi |
| Compression Efficiency     | 100 %         | Compression Strength | 641.000 x1000 lbs | Max. Allowable Bending                    | 92 °/100 ft   |
| External Pressure Capacity | 11100.000 psi |                      |                   |                                           |               |

MAKE-UP TORQUES

|         |              |         |              |         |              |
|---------|--------------|---------|--------------|---------|--------------|
| Minimum | 11270 ft-lbs | Optimum | 12520 ft-lbs | Maximum | 13770 ft-lbs |
|---------|--------------|---------|--------------|---------|--------------|

OPERATION LIMIT TORQUES

|                  |              |              |              |  |  |
|------------------|--------------|--------------|--------------|--|--|
| Operating Torque | 21500 ft-lbs | Yield Torque | 23900 ft-lbs |  |  |
|------------------|--------------|--------------|--------------|--|--|

# **Tap Rock Operating, LLC.**

**Eddy County, NM (NAD83)**

**Nailed It Fed Com**

**151H**

**OH**

**Plan: Plan #1**

## **Standard Planning Report**

**15 February, 2021**

## Planning Report

|                  |                           |                                     |                             |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 151H                   |
| <b>Company:</b>  | Tap Rock Operating, LLC.  | <b>TVD Reference:</b>               | WELL @ 3033.0usft (25' RKB) |
| <b>Project:</b>  | Eddy County, NM (NAD83)   | <b>MD Reference:</b>                | WELL @ 3033.0usft (25' RKB) |
| <b>Site:</b>     | Nailed It Fed Com         | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | 151H                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | OH                        |                                     |                             |
| <b>Design:</b>   | Plan #1                   |                                     |                             |

|                    |                           |                      |                |
|--------------------|---------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAD83)   |                      |                |
| <b>Map System:</b> | US State Plane 1983       | <b>System Datum:</b> | Mean Sea Level |
| <b>Geo Datum:</b>  | North American Datum 1983 |                      |                |
| <b>Map Zone:</b>   | New Mexico Eastern Zone   |                      |                |

| Site                  | Nailed It Fed Com |              |                 |                   |                   |
|-----------------------|-------------------|--------------|-----------------|-------------------|-------------------|
| Site Position:        |                   | Northing:    | 364,471.20 usft | Latitude:         | 32° 0' 3.817 N    |
| From:                 | Lat/Long          | Easting:     | 693,621.04 usft | Longitude:        | 103° 50' 31.467 W |
| Position Uncertainty: | 2.0 usft          | Slot Radius: | 13-3/16 "       | Grid Convergence: | 0.26 °            |

|                      |       |            |                     |                 |               |                   |
|----------------------|-------|------------|---------------------|-----------------|---------------|-------------------|
| Well                 | 151H  |            |                     |                 |               |                   |
| Well Position        | +N/-S | -24.5 usft | Northing:           | 364,446.73 usft | Latitude:     | 32° 0' 3.570 N    |
|                      | +E/-W | 105.1 usft | Easting:            | 693,726.14 usft | Longitude:    | 103° 50' 30.248 W |
| Position Uncertainty |       | 2.0 usft   | Wellhead Elevation: |                 | Ground Level: | 3,008.0 usft      |

|                  |                   |                    |                        |                      |                            |
|------------------|-------------------|--------------------|------------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OH                |                    |                        |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b> | <b>Declination (°)</b> | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  | IGRF2015          | 2/14/2021          | 6.66                   | 59.77                | 47,405                     |

|                          |                                |                     |                      |                      |
|--------------------------|--------------------------------|---------------------|----------------------|----------------------|
| <b>Design</b>            | Plan #1                        |                     |                      |                      |
| <b>Audit Notes:</b>      |                                |                     |                      |                      |
| <b>Version:</b>          | <b>Phase:</b>                  | PLAN                | <b>Tie On Depth:</b> | 0.0                  |
| <b>Vertical Section:</b> | <b>Depth From (TVD) (usft)</b> | <b>+N/-S (usft)</b> | <b>+E/-W (usft)</b>  | <b>Direction (°)</b> |
|                          | 0.0                            | 0.0                 | 0.0                  | 359.69               |

| <b>Plan Sections</b>  |                 |             |                       |              |              |                         |                        |                       |         |               |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|------------------------|-----------------------|---------|---------------|
| 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    |               |
| 1,500.0               | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 1,833.3               | 5.00            | 183.00      | 1,832.9               | -14.5        | -0.8         | 1.50                    | 1.50                   | 0.00                  | 183.00  |               |
| 4,833.3               | 5.00            | 183.00      | 4,821.5               | -275.6       | -14.4        | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 5,166.7               | 0.00            | 0.00        | 5,154.4               | -290.1       | -15.2        | 1.50                    | -1.50                  | 0.00                  | 180.00  |               |
| 9,508.3               | 0.00            | 0.00        | 9,496.0               | -290.1       | -15.2        | 0.00                    | 0.00                   | 0.00                  | 0.00    |               |
| 10,407.1              | 89.88           | 349.75      | 10,069.0              | 272.5        | -117.0       | 10.00                   | 10.00                  | 0.00                  | 349.75  |               |
| 10,904.3              | 89.88           | 359.69      | 10,070.0              | 766.9        | -162.6       | 2.00                    | 0.00                   | 2.00                  | 89.99   |               |
| 14,318.2              | 89.88           | 359.69      | 10,077.0              | 4,180.8      | -180.9       | 0.00                    | 0.00                   | 0.00                  | 0.00    | LTP_NIF.151H  |
| 14,448.2              | 89.88           | 359.69      | 10,077.3              | 4,310.8      | -181.6       | 0.00                    | 0.00                   | 0.00                  | 0.00    | PBHL_NIF.151H |

## Planning Report

|                  |                           |                                     |                             |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 151H                   |
| <b>Company:</b>  | Tap Rock Operating, LLC.  | <b>TVD Reference:</b>               | WELL @ 3033.0usft (25' RKB) |
| <b>Project:</b>  | Eddy County, NM (NAD83)   | <b>MD Reference:</b>                | WELL @ 3033.0usft (25' RKB) |
| <b>Site:</b>     | Nailed It Fed Com         | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | 151H                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | OH                        |                                     |                             |
| <b>Design:</b>   | 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                            | 0.00            | 0.00        | 0.0                   | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 100.0                          | 0.00            | 0.00        | 100.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 200.0                          | 0.00            | 0.00        | 200.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 300.0                          | 0.00            | 0.00        | 300.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 400.0                          | 0.00            | 0.00        | 400.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 500.0                          | 0.00            | 0.00        | 500.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 600.0                          | 0.00            | 0.00        | 600.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 700.0                          | 0.00            | 0.00        | 700.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 800.0                          | 0.00            | 0.00        | 800.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 823.0                          | 0.00            | 0.00        | 823.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Rustler Anhydrite              |                 |             |                       |              |              |                         |                         |                        |                       |
| 900.0                          | 0.00            | 0.00        | 900.0                 | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,000.0                        | 0.00            | 0.00        | 1,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,100.0                        | 0.00            | 0.00        | 1,100.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,200.0                        | 0.00            | 0.00        | 1,200.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,300.0                        | 0.00            | 0.00        | 1,300.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,375.0                        | 0.00            | 0.00        | 1,375.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Top Salt                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,400.0                        | 0.00            | 0.00        | 1,400.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,500.0                        | 0.00            | 0.00        | 1,500.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| Start Build 1.50               |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,600.0                        | 1.50            | 183.00      | 1,600.0               | -1.3         | -0.1         | -1.3                    | 1.50                    | 1.50                   | 0.00                  |
| 1,700.0                        | 3.00            | 183.00      | 1,699.9               | -5.2         | -0.3         | -5.2                    | 1.50                    | 1.50                   | 0.00                  |
| 1,800.0                        | 4.50            | 183.00      | 1,799.7               | -11.8        | -0.6         | -11.8                   | 1.50                    | 1.50                   | 0.00                  |
| 1,833.3                        | 5.00            | 183.00      | 1,832.9               | -14.5        | -0.8         | -14.5                   | 1.50                    | 1.50                   | 0.00                  |
| Start 3000.0 hold at 1833.3 MD |                 |             |                       |              |              |                         |                         |                        |                       |
| 1,900.0                        | 5.00            | 183.00      | 1,899.3               | -20.3        | -1.1         | -20.3                   | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                        | 5.00            | 183.00      | 1,998.9               | -29.0        | -1.5         | -29.0                   | 0.00                    | 0.00                   | 0.00                  |
| 2,100.0                        | 5.00            | 183.00      | 2,098.6               | -37.7        | -2.0         | -37.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,200.0                        | 5.00            | 183.00      | 2,198.2               | -46.4        | -2.4         | -46.4                   | 0.00                    | 0.00                   | 0.00                  |
| 2,300.0                        | 5.00            | 183.00      | 2,297.8               | -55.1        | -2.9         | -55.1                   | 0.00                    | 0.00                   | 0.00                  |
| 2,400.0                        | 5.00            | 183.00      | 2,397.4               | -63.8        | -3.3         | -63.8                   | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                        | 5.00            | 183.00      | 2,497.0               | -72.5        | -3.8         | -72.5                   | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                        | 5.00            | 183.00      | 2,596.7               | -81.2        | -4.3         | -81.2                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                        | 5.00            | 183.00      | 2,696.3               | -89.9        | -4.7         | -89.9                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                        | 5.00            | 183.00      | 2,795.9               | -98.7        | -5.2         | -98.6                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                        | 5.00            | 183.00      | 2,895.5               | -107.4       | -5.6         | -107.3                  | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                        | 5.00            | 183.00      | 2,995.1               | -116.1       | -6.1         | -116.0                  | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                        | 5.00            | 183.00      | 3,094.8               | -124.8       | -6.5         | -124.7                  | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                        | 5.00            | 183.00      | 3,194.4               | -133.5       | -7.0         | -133.4                  | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                        | 5.00            | 183.00      | 3,294.0               | -142.2       | -7.5         | -142.1                  | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                        | 5.00            | 183.00      | 3,393.6               | -150.9       | -7.9         | -150.8                  | 0.00                    | 0.00                   | 0.00                  |
| 3,424.5                        | 5.00            | 183.00      | 3,418.0               | -153.0       | -8.0         | -153.0                  | 0.00                    | 0.00                   | 0.00                  |
| Base Salt                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,500.0                        | 5.00            | 183.00      | 3,493.2               | -159.6       | -8.4         | -159.5                  | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                        | 5.00            | 183.00      | 3,592.9               | -168.3       | -8.8         | -168.2                  | 0.00                    | 0.00                   | 0.00                  |
| 3,625.2                        | 5.00            | 183.00      | 3,618.0               | -170.5       | -8.9         | -170.4                  | 0.00                    | 0.00                   | 0.00                  |
| Delaware Mountain Gp           |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,631.3                        | 5.00            | 183.00      | 3,624.0               | -171.0       | -9.0         | -170.9                  | 0.00                    | 0.00                   | 0.00                  |
| Lamar                          |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,652.3                        | 5.00            | 183.00      | 3,645.0               | -172.8       | -9.1         | -172.8                  | 0.00                    | 0.00                   | 0.00                  |
| Bell Canyon                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,664.4                        | 5.00            | 183.00      | 3,657.0               | -173.9       | -9.1         | -173.8                  | 0.00                    | 0.00                   | 0.00                  |

## Planning Report

|                  |                           |                                     |                             |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 151H                   |
| <b>Company:</b>  | Tap Rock Operating, LLC.  | <b>TVD Reference:</b>               | WELL @ 3033.0usft (25' RKB) |
| <b>Project:</b>  | Eddy County, NM (NAD83)   | <b>MD Reference:</b>                | WELL @ 3033.0usft (25' RKB) |
| <b>Site:</b>     | Nailed It Fed Com         | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | 151H                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | OH                        |                                     |                             |
| <b>Design:</b>   | 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) |
| <b>Ramsey Sand</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,700.0                               | 5.00            | 183.00      | 3,692.5               | -177.0       | -9.3         | -176.9                  | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                               | 5.00            | 183.00      | 3,792.1               | -185.7       | -9.7         | -185.6                  | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                               | 5.00            | 183.00      | 3,891.7               | -194.4       | -10.2        | -194.3                  | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                               | 5.00            | 183.00      | 3,991.3               | -203.1       | -10.6        | -203.0                  | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                               | 5.00            | 183.00      | 4,091.0               | -211.8       | -11.1        | -211.7                  | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                               | 5.00            | 183.00      | 4,190.6               | -220.5       | -11.6        | -220.4                  | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                               | 5.00            | 183.00      | 4,290.2               | -229.2       | -12.0        | -229.1                  | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                               | 5.00            | 183.00      | 4,389.8               | -237.9       | -12.5        | -237.8                  | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                               | 5.00            | 183.00      | 4,489.4               | -246.6       | -12.9        | -246.5                  | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                               | 5.00            | 183.00      | 4,589.0               | -255.3       | -13.4        | -255.2                  | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                               | 5.00            | 183.00      | 4,688.7               | -264.0       | -13.8        | -263.9                  | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                               | 5.00            | 183.00      | 4,788.3               | -272.7       | -14.3        | -272.6                  | 0.00                    | 0.00                   | 0.00                  |
| 4,833.3                               | 5.00            | 183.00      | 4,821.5               | -275.6       | -14.4        | -275.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Drop -1.50</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,845.9                               | 4.81            | 183.00      | 4,834.0               | -276.7       | -14.5        | -276.6                  | 1.50                    | -1.50                  | 0.00                  |
| <b>Cherry Canyon</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,900.0                               | 4.00            | 183.00      | 4,888.0               | -280.8       | -14.7        | -280.8                  | 1.50                    | -1.50                  | 0.00                  |
| 5,000.0                               | 2.50            | 183.00      | 4,987.8               | -286.5       | -15.0        | -286.4                  | 1.50                    | -1.50                  | 0.00                  |
| 5,100.0                               | 1.00            | 183.00      | 5,087.7               | -289.6       | -15.2        | -289.5                  | 1.50                    | -1.50                  | 0.00                  |
| 5,166.7                               | 0.00            | 0.00        | 5,154.4               | -290.1       | -15.2        | -290.1                  | 1.50                    | -1.50                  | 0.00                  |
| <b>Start 4341.6 hold at 5166.7 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,200.0                               | 0.00            | 0.00        | 5,187.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0                               | 0.00            | 0.00        | 5,287.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0                               | 0.00            | 0.00        | 5,387.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0                               | 0.00            | 0.00        | 5,487.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0                               | 0.00            | 0.00        | 5,587.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0                               | 0.00            | 0.00        | 5,687.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.0                               | 0.00            | 0.00        | 5,787.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 5,800.3                               | 0.00            | 0.00        | 5,788.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Brushy Canyon</b>                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,900.0                               | 0.00            | 0.00        | 5,887.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0                               | 0.00            | 0.00        | 5,987.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0                               | 0.00            | 0.00        | 6,087.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0                               | 0.00            | 0.00        | 6,187.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0                               | 0.00            | 0.00        | 6,287.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0                               | 0.00            | 0.00        | 6,387.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0                               | 0.00            | 0.00        | 6,487.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0                               | 0.00            | 0.00        | 6,587.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0                               | 0.00            | 0.00        | 6,687.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0                               | 0.00            | 0.00        | 6,787.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0                               | 0.00            | 0.00        | 6,887.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0                               | 0.00            | 0.00        | 6,987.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0                               | 0.00            | 0.00        | 7,087.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,200.0                               | 0.00            | 0.00        | 7,187.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,300.0                               | 0.00            | 0.00        | 7,287.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,400.0                               | 0.00            | 0.00        | 7,387.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,500.0                               | 0.00            | 0.00        | 7,487.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,567.3                               | 0.00            | 0.00        | 7,555.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Bone Spring Lime</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,600.0                               | 0.00            | 0.00        | 7,587.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,664.3                               | 0.00            | 0.00        | 7,652.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Upper Avalon</b>                   |                 |             |                       |              |              |                         |                         |                        |                       |

## Planning Report

|                  |                           |                                     |                             |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 151H                   |
| <b>Company:</b>  | Tap Rock Operating, LLC.  | <b>TVD Reference:</b>               | WELL @ 3033.0usft (25' RKB) |
| <b>Project:</b>  | Eddy County, NM (NAD83)   | <b>MD Reference:</b>                | WELL @ 3033.0usft (25' RKB) |
| <b>Site:</b>     | Nailed It Fed Com         | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | 151H                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | OH                        |                                     |                             |
| <b>Design:</b>   | 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) |
| 7,700.0                                        | 0.00            | 0.00        | 7,687.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,800.0                                        | 0.00            | 0.00        | 7,787.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0                                        | 0.00            | 0.00        | 7,887.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0                                        | 0.00            | 0.00        | 7,987.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,054.3                                        | 0.00            | 0.00        | 8,042.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Middle Avalon</b>                           |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,100.0                                        | 0.00            | 0.00        | 8,087.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0                                        | 0.00            | 0.00        | 8,187.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,300.0                                        | 0.00            | 0.00        | 8,287.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,320.3                                        | 0.00            | 0.00        | 8,308.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Lower Avalon</b>                            |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,400.0                                        | 0.00            | 0.00        | 8,387.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,494.3                                        | 0.00            | 0.00        | 8,482.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>1st Bone Spring Sand</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,500.0                                        | 0.00            | 0.00        | 8,487.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0                                        | 0.00            | 0.00        | 8,587.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0                                        | 0.00            | 0.00        | 8,687.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0                                        | 0.00            | 0.00        | 8,787.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,900.0                                        | 0.00            | 0.00        | 8,887.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 8,987.3                                        | 0.00            | 0.00        | 8,975.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Carb</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,000.0                                        | 0.00            | 0.00        | 8,987.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0                                        | 0.00            | 0.00        | 9,087.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,140.3                                        | 0.00            | 0.00        | 9,128.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Sand</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,200.0                                        | 0.00            | 0.00        | 9,187.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                                        | 0.00            | 0.00        | 9,287.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                                        | 0.00            | 0.00        | 9,387.7               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| 9,508.3                                        | 0.00            | 0.00        | 9,496.0               | -290.1       | -15.2        | -290.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Start Build 10.00</b>                       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,550.0                                        | 4.17            | 349.75      | 9,537.7               | -288.6       | -15.5        | -288.6                  | 10.00                   | 10.00                  | 0.00                  |
| 9,600.0                                        | 9.17            | 349.75      | 9,587.3               | -282.9       | -16.5        | -282.8                  | 10.00                   | 10.00                  | 0.00                  |
| 9,650.0                                        | 14.17           | 349.75      | 9,636.3               | -273.0       | -18.3        | -272.9                  | 10.00                   | 10.00                  | 0.00                  |
| 9,700.0                                        | 19.17           | 349.75      | 9,684.2               | -258.9       | -20.9        | -258.7                  | 10.00                   | 10.00                  | 0.00                  |
| 9,737.3                                        | 22.90           | 349.75      | 9,719.0               | -245.7       | -23.2        | -245.6                  | 10.00                   | 10.00                  | 0.00                  |
| <b>3rd Bone Spring Carb</b>                    |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,750.0                                        | 24.17           | 349.75      | 9,730.6               | -240.7       | -24.1        | -240.6                  | 10.00                   | 10.00                  | 0.00                  |
| 9,800.0                                        | 29.17           | 349.75      | 9,775.3               | -218.6       | -28.1        | -218.5                  | 10.00                   | 10.00                  | 0.00                  |
| 9,850.0                                        | 34.17           | 349.75      | 9,817.8               | -192.8       | -32.8        | -192.6                  | 10.00                   | 10.00                  | 0.00                  |
| 9,900.0                                        | 39.17           | 349.75      | 9,857.9               | -163.4       | -38.1        | -163.2                  | 10.00                   | 10.00                  | 0.00                  |
| 9,950.0                                        | 44.17           | 349.75      | 9,895.3               | -130.7       | -44.0        | -130.5                  | 10.00                   | 10.00                  | 0.00                  |
| 10,000.0                                       | 49.17           | 349.75      | 9,929.6               | -94.9        | -50.5        | -94.7                   | 10.00                   | 10.00                  | 0.00                  |
| 10,050.0                                       | 54.17           | 349.75      | 9,960.6               | -56.4        | -57.5        | -56.0                   | 10.00                   | 10.00                  | 0.00                  |
| 10,100.0                                       | 59.17           | 349.75      | 9,988.0               | -15.3        | -64.9        | -14.9                   | 10.00                   | 10.00                  | 0.00                  |
| 10,150.0                                       | 64.17           | 349.75      | 10,011.7              | 28.0         | -72.7        | 28.4                    | 10.00                   | 10.00                  | 0.00                  |
| 10,200.0                                       | 69.17           | 349.75      | 10,031.5              | 73.2         | -80.9        | 73.6                    | 10.00                   | 10.00                  | 0.00                  |
| 10,250.0                                       | 74.17           | 349.75      | 10,047.3              | 119.9        | -89.4        | 120.4                   | 10.00                   | 10.00                  | 0.00                  |
| 10,300.0                                       | 79.17           | 349.75      | 10,058.8              | 167.7        | -98.0        | 168.3                   | 10.00                   | 10.00                  | 0.00                  |
| 10,350.0                                       | 84.17           | 349.75      | 10,066.0              | 216.4        | -106.8       | 217.0                   | 10.00                   | 10.00                  | 0.00                  |
| 10,400.0                                       | 89.17           | 349.75      | 10,068.9              | 265.5        | -115.7       | 266.1                   | 10.00                   | 10.00                  | 0.00                  |
| 10,407.1                                       | 89.88           | 349.75      | 10,069.0              | 272.5        | -117.0       | 273.2                   | 10.00                   | 10.00                  | 0.00                  |
| <b>EOC - 10407.1'MD, 89.88°INC, 349.75°AZI</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,500.0                                       | 89.88           | 351.61      | 10,069.2              | 364.2        | -132.0       | 364.9                   | 2.00                    | 0.00                   | 2.00                  |

## Planning Report

|                  |                           |                                     |                             |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 151H                   |
| <b>Company:</b>  | Tap Rock Operating, LLC.  | <b>TVD Reference:</b>               | WELL @ 3033.0usft (25' RKB) |
| <b>Project:</b>  | Eddy County, NM (NAD83)   | <b>MD Reference:</b>                | WELL @ 3033.0usft (25' RKB) |
| <b>Site:</b>     | Nailed It Fed Com         | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | 151H                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | OH                        |                                     |                             |
| <b>Design:</b>   | 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) |
| 10,600.0              | 89.88           | 353.61      | 10,069.4              | 463.3        | -144.9       | 464.1                   | 2.00                    | 0.00                   | 2.00                  |
| 10,700.0              | 89.88           | 355.61      | 10,069.6              | 562.9        | -154.3       | 563.7                   | 2.00                    | 0.00                   | 2.00                  |
| 10,800.0              | 89.88           | 357.61      | 10,069.8              | 662.7        | -160.2       | 663.6                   | 2.00                    | 0.00                   | 2.00                  |
| 10,904.3              | 89.88           | 359.69      | 10,070.0              | 766.9        | -162.6       | 767.8                   | 2.00                    | 0.00                   | 2.00                  |
| 11,000.0              | 89.88           | 359.69      | 10,070.2              | 862.7        | -163.1       | 863.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,100.0              | 89.88           | 359.69      | 10,070.4              | 962.7        | -163.7       | 963.5                   | 0.00                    | 0.00                   | 0.00                  |
| 11,200.0              | 89.88           | 359.69      | 10,070.6              | 1,062.7      | -164.2       | 1,063.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,300.0              | 89.88           | 359.69      | 10,070.8              | 1,162.7      | -164.8       | 1,163.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0              | 89.88           | 359.69      | 10,071.0              | 1,262.7      | -165.3       | 1,263.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0              | 89.88           | 359.69      | 10,071.2              | 1,362.7      | -165.8       | 1,363.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0              | 89.88           | 359.69      | 10,071.5              | 1,462.7      | -166.4       | 1,463.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0              | 89.88           | 359.69      | 10,071.7              | 1,562.7      | -166.9       | 1,563.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0              | 89.88           | 359.69      | 10,071.9              | 1,662.7      | -167.4       | 1,663.5                 | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0              | 89.88           | 359.69      | 10,072.1              | 1,762.7      | -168.0       | 1,763.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0              | 89.88           | 359.69      | 10,072.3              | 1,862.7      | -168.5       | 1,863.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0              | 89.88           | 359.69      | 10,072.5              | 1,962.7      | -169.0       | 1,963.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0              | 89.88           | 359.69      | 10,072.7              | 2,062.7      | -169.6       | 2,063.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0              | 89.88           | 359.69      | 10,072.9              | 2,162.7      | -170.1       | 2,163.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0              | 89.88           | 359.69      | 10,073.1              | 2,262.7      | -170.7       | 2,263.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0              | 89.88           | 359.69      | 10,073.3              | 2,362.6      | -171.2       | 2,363.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0              | 89.88           | 359.69      | 10,073.5              | 2,462.6      | -171.7       | 2,463.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0              | 89.88           | 359.69      | 10,073.7              | 2,562.6      | -172.3       | 2,563.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0              | 89.88           | 359.69      | 10,073.9              | 2,662.6      | -172.8       | 2,663.5                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0              | 89.88           | 359.69      | 10,074.1              | 2,762.6      | -173.3       | 2,763.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0              | 89.88           | 359.69      | 10,074.3              | 2,862.6      | -173.9       | 2,863.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0              | 89.88           | 359.69      | 10,074.5              | 2,962.6      | -174.4       | 2,963.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0              | 89.88           | 359.69      | 10,074.7              | 3,062.6      | -174.9       | 3,063.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0              | 89.88           | 359.69      | 10,074.9              | 3,162.6      | -175.5       | 3,163.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0              | 89.88           | 359.69      | 10,075.1              | 3,262.6      | -176.0       | 3,263.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0              | 89.88           | 359.69      | 10,075.3              | 3,362.6      | -176.5       | 3,363.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0              | 89.88           | 359.69      | 10,075.5              | 3,462.6      | -177.1       | 3,463.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0              | 89.88           | 359.69      | 10,075.7              | 3,562.6      | -177.6       | 3,563.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0              | 89.88           | 359.69      | 10,075.9              | 3,662.6      | -178.2       | 3,663.5                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0              | 89.88           | 359.69      | 10,076.1              | 3,762.6      | -178.7       | 3,763.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0              | 89.88           | 359.69      | 10,076.4              | 3,862.6      | -179.2       | 3,863.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0              | 89.88           | 359.69      | 10,076.6              | 3,962.6      | -179.8       | 3,963.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0              | 89.88           | 359.69      | 10,076.8              | 4,062.6      | -180.3       | 4,063.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0              | 89.88           | 359.69      | 10,077.0              | 4,162.6      | -180.8       | 4,163.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,318.2              | 89.88           | 359.69      | 10,077.0              | 4,180.8      | -180.9       | 4,181.7                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0              | 89.88           | 359.69      | 10,077.2              | 4,262.6      | -181.4       | 4,263.5                 | 0.00                    | 0.00                   | 0.00                  |
| 14,448.2              | 89.88           | 359.69      | 10,077.3              | 4,310.8      | -181.6       | 4,311.7                 | 0.00                    | 0.00                   | 0.00                  |
| TD at 14448.2         |                 |             |                       |              |              |                         |                         |                        |                       |

## Planning Report

|                  |                           |                                     |                             |
|------------------|---------------------------|-------------------------------------|-----------------------------|
| <b>Database:</b> | EDM 5000.1 Single User Db | <b>Local Co-ordinate Reference:</b> | Well 151H                   |
| <b>Company:</b>  | Tap Rock Operating, LLC.  | <b>TVD Reference:</b>               | WELL @ 3033.0usft (25' RKB) |
| <b>Project:</b>  | Eddy County, NM (NAD83)   | <b>MD Reference:</b>                | WELL @ 3033.0usft (25' RKB) |
| <b>Site:</b>     | Nailed It Fed Com         | <b>North Reference:</b>             | Grid                        |
| <b>Well:</b>     | 151H                      | <b>Survey Calculation Method:</b>   | Minimum Curvature           |
| <b>Wellbore:</b> | OH                        |                                     |                             |
| <b>Design:</b>   | Plan #1                   |                                     |                             |

| Design Targets                                                                             |           |          |          |         |        |            |            |                 |                   |
|--------------------------------------------------------------------------------------------|-----------|----------|----------|---------|--------|------------|------------|-----------------|-------------------|
| Target Name                                                                                |           |          |          |         |        |            |            |                 |                   |
| - hit/miss target                                                                          | Dip Angle | Dip Dir. | TVD      | +N/-S   | +E/-W  | Northing   | Easting    | Latitude        | Longitude         |
| - Shape                                                                                    | (°)       | (°)      | (usft)   | (usft)  | (usft) | (usft)     | (usft)     |                 |                   |
| FTP_NIF.151H                                                                               | 0.00      | 0.00     | 10,069.0 | -205.8  | -157.3 | 364,240.95 | 693,568.82 | 32° 0' 1.541 N  | 103° 50' 32.086 W |
| - plan misses target center by 206.7usft at 10015.8usft MD (9939.7 TVD, -83.0 N, -52.7 E)  |           |          |          |         |        |            |            |                 |                   |
| - Point                                                                                    |           |          |          |         |        |            |            |                 |                   |
| LTP_NIF.151H                                                                               | 0.00      | 0.00     | 10,077.0 | 4,180.8 | -180.9 | 368,627.54 | 693,545.21 | 32° 0' 44.952 N | 103° 50' 32.128 W |
| - plan hits target center                                                                  |           |          |          |         |        |            |            |                 |                   |
| - Point                                                                                    |           |          |          |         |        |            |            |                 |                   |
| PBHL_NIF.151H                                                                              | 0.00      | 0.00     | 10,077.3 | 4,310.8 | -181.7 | 368,757.55 | 693,544.43 | 32° 0' 46.238 N | 103° 50' 32.131 W |
| - plan misses target center by 0.1usft at 14448.2usft MD (10077.3 TVD, 4310.8 N, -181.6 E) |           |          |          |         |        |            |            |                 |                   |
| - Point                                                                                    |           |          |          |         |        |            |            |                 |                   |

| Formations     |                |                      |           |     |               |  |
|----------------|----------------|----------------------|-----------|-----|---------------|--|
| Measured Depth | Vertical Depth | Name                 | Lithology | Dip | Dip Direction |  |
| (usft)         | (usft)         |                      |           | (°) | (°)           |  |
| 823.0          | 823.0          | Rustler Anhydrite    |           |     |               |  |
| 1,375.0        | 1,375.0        | Top Salt             |           |     |               |  |
| 3,424.5        | 3,418.0        | Base Salt            |           |     |               |  |
| 3,625.2        | 3,618.0        | Delaware Mountain Gp |           |     |               |  |
| 3,631.3        | 3,624.0        | Lamar                |           |     |               |  |
| 3,652.3        | 3,645.0        | Bell Canyon          |           |     |               |  |
| 3,664.4        | 3,657.0        | Ramsey Sand          |           |     |               |  |
| 4,845.9        | 4,834.0        | Cherry Canyon        |           |     |               |  |
| 5,800.3        | 5,788.0        | Brushy Canyon        |           |     |               |  |
| 7,567.3        | 7,555.0        | Bone Spring Lime     |           |     |               |  |
| 7,664.3        | 7,652.0        | Upper Avalon         |           |     |               |  |
| 8,054.3        | 8,042.0        | Middle Avalon        |           |     |               |  |
| 8,320.3        | 8,308.0        | Lower Avalon         |           |     |               |  |
| 8,494.3        | 8,482.0        | 1st Bone Spring Sand |           |     |               |  |
| 8,987.3        | 8,975.0        | 2nd Bone Spring Carb |           |     |               |  |
| 9,140.3        | 9,128.0        | 2nd Bone Spring Sand |           |     |               |  |
| 9,737.3        | 9,719.0        | 3rd Bone Spring Carb |           |     |               |  |

| Plan Annotations |                |                   |        |                                        |  |
|------------------|----------------|-------------------|--------|----------------------------------------|--|
| Measured Depth   | Vertical Depth | Local Coordinates |        |                                        |  |
| (usft)           | (usft)         | +N/-S             | +E/-W  | Comment                                |  |
| (usft)           | (usft)         | (usft)            | (usft) |                                        |  |
| 1,500.0          | 1,500.0        | 0.0               | 0.0    | Start Build 1.50                       |  |
| 1,833.3          | 1,832.9        | -14.5             | -0.8   | Start 3000.0 hold at 1833.3 MD         |  |
| 4,833.3          | 4,821.5        | -275.6            | -14.4  | Start Drop -1.50                       |  |
| 5,166.7          | 5,154.4        | -290.1            | -15.2  | Start 4341.6 hold at 5166.7 MD         |  |
| 9,508.3          | 9,496.0        | -290.1            | -15.2  | Start Build 10.00                      |  |
| 10,407.1         | 10,069.0       | 272.5             | -117.0 | EOC - 10407.1MD, 89.88°INC, 349.75°AZI |  |
| 14,448.2         | 10,077.3       | 766.9             | -162.6 | TD at 14448.2                          |  |

**District I**

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**District II**

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**District IV**

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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**

COMMENTS

Action 24531

## COMMENTS

|                                                                                  |                                                      |
|----------------------------------------------------------------------------------|------------------------------------------------------|
| Operator:<br>TAP ROCK OPERATING, LLC<br>523 Park Point Drive<br>Golden, CO 80401 | OGRID:<br>372043                                     |
|                                                                                  | Action Number:<br>24531                              |
|                                                                                  | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

## COMMENTS

| Created By | Comment                 | Comment Date |
|------------|-------------------------|--------------|
| kpickford  | KP GEO Review 4/20/2021 | 4/20/2021    |

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CONDITIONS  
  
Action 24531

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|                                                                                  |                                                      |
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|                                                                                  | Action Type:<br>[C-103] NOI Change of Plans (C-103A) |

CONDITIONS

| Created By | Condition                                       | Condition Date |
|------------|-------------------------------------------------|----------------|
| kpickford  | Adhere to previous NMOCD Conditions of Approval | 4/20/2021      |