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MAR 04 2020

FORM APPROVED  
OMB No. 1004-0137  
Expires: January 31, 2018

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

|  |   |   |
|--|---|---|
| 1a. Type of work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>NMNM138850                                     |
| 1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other  |   | 6. If Indian, Allottee or Tribe Name                                  |
| 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone   |   | 7. If Unit or CA Agreement, Name and No.                              |
| 2. Name of Operator<br>TAP ROCK OPERATING LLC  |   | 8. Lease Name and Well No.<br>NAILED IT FED COM<br>207H 327308        |
| 3a. Address<br>602 Park Point Drive Suite 200, Golden, CO 80401  | 3b. Phone No. (include area code)<br>(720) 460-3316 | 9. API Well No.<br>30-015-46858                                       |
| 4. Location of Well (Report location clearly and in accordance with any State requirements. *)<br>At surface LOT 3 / 230 FSL / 1865 FWL / LAT 32.0007876 / LONG -103.8372974<br>At proposed prod. zone NESW / 2465 FSL / 2486 FWL / LAT 32.0128294 / LONG -103.8353058 |   | 10. Field and Pool, or Exploratory<br>PURPLE SAGE WOLFCAMP/null       |
| 14. Distance in miles and direction from nearest town or post office*<br>20 miles  |   | 11. Sec., T. R. M. or Blk. and Survey or Area<br>SEC 36/T26S/R30E/NMP |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)<br>230 feet  | 16. No of acres in lease<br>320                     | 12. County or Parish<br>EDDY  |
| 17. Spacing Unit dedicated to this well<br>289.2   | 13. State<br>NM                                     |   |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 25 feet   | 19. Proposed Depth<br>10931 feet / 15220 feet       | 20. BLM/BIA Bond No. in file<br>FED: NMB001443                        |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>3018 feet   | 22. Approximate date work will start*<br>01/01/2020 | 23. Estimated duration<br>30 days                                     |
| 24. Attachments  |   |   |

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

- |  |   |
|--|---|
| 1. Well plat certified by a registered surveyor.   | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan.  | 5. Operator certification.  |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be requested by the BLM.            |

|  |  |                    |
|--|--|--------------------|
| 25. Signature<br>(Electronic Submission)                                   | Name (Printed/Typed)<br>Brian Wood / Ph: (720) 460-3316  | Date<br>08/30/2019 |
| Title<br>President   |  |                    |
| Approved by (Signature)<br>(Electronic Submission)                         | Name (Printed/Typed)<br>Cody Layton / Ph: (575) 234-5959 | Date<br>02/24/2020 |
| Title<br>Assistant Field Manager Lands & Minerals<br>Carlsbad Field Office |  |                    |

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.  
Conditions of approval, if any, are attached.

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.

APPROVED WITH CONDITIONS

Approval Date: 02/24/2020

RW 3-17-20

\*(Instructions on page 2)

## INSTRUCTIONS

**GENERAL:** This form is designed for submitting proposals to perform certain well operations, as indicated on Federal and Indian lands and leases for action by appropriate Federal agencies, pursuant to applicable Federal laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from local Federal offices.

**ITEM 1:** If the proposal is to redrill to the same reservoir at a different subsurface location or to a new reservoir, use this form with appropriate notations. Consult applicable Federal regulations concerning subsequent work proposals or reports on the well.

**ITEM 4:** Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local Federal offices for specific instructions.

**ITEM 14:** Needed only when location of well cannot readily be found by road from the land or lease description. A plat, or plats, separate or on the reverse side, showing the roads to, and the surveyed location of, the well, and any other required information, should be furnished when required by Federal agency offices.

**ITEMS 15 AND 18:** If well is to be, or has been directionally drilled, give distances for subsurface location of hole in any present or objective productive zone.

**ITEM 22:** Consult applicable Federal regulations, or appropriate officials, concerning approval of the proposal before operations are started.

**ITEM 24:** If the proposal will involve hydraulic fracturing operations, you must comply with 43 CFR 3162.3-3, including providing information about the protection of usable water. Operators should provide the best available information about all formations containing water and their depths. This information could include data and interpretation of resistivity logs run on nearby wells. Information may also be obtained from state or tribal regulatory agencies and from local BLM offices.

## NOTICES

The Privacy Act of 1974 and regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

**AUTHORITY:** 30 U.S.C. 181 et seq., 25 U.S.C. 396; 43 CFR 3160

**PRINCIPAL PURPOSES:** The information will be used to: (1) process and evaluate your application for a permit to drill a new oil, gas, or service well or to reenter a plugged and abandoned well; and (2) document, for administrative use, information for the management, disposal and use of National Resource Lands and resources including (a) analyzing your proposal to discover and extract the Federal or Indian resources encountered; (b) reviewing procedures and equipment and the projected impact on the land involved; and (c) evaluating the effects of the proposed operation on the surface and subsurface water and other environmental impacts.

**ROUTINE USE:** Information from the record and/or the record will be transferred to appropriate Federal, State, and local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecution, in connection with congressional inquiries and for regulatory responsibilities.

**EFFECT OF NOT PROVIDING INFORMATION:** Filing of this application and disclosure of the information is mandatory only if you elect to initiate a drilling or reentry operation on an oil and gas lease.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM connects this information to an evaluation of the technical, safety, and environmental factors involved with drilling for oil and/or gas on Federal and Indian oil and gas leases. This information will be used to analyze and approve applications. Response to this request is mandatory only if the operator elects to initiate drilling or reentry operations on an oil and gas lease. The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

**BURDEN HOURS STATEMENT:** Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Connection Clearance Officer (WO-630), 1849 C Street, N.W., Mail Stop 401 LS, Washington, D.C. 20240.

|                         | Well Name              | SHL           |         |          |             |              | BHL             |          |          |             |              |
|-------------------------|------------------------|---------------|---------|----------|-------------|--------------|-----------------|----------|----------|-------------|--------------|
|                         |                        | ULSTR         | Footage |          | Coordinates |              | ULSTR           | Footage  |          | Coordinates |              |
| W2W2<br>Pad<br>(Slot 1) | Nailed It Fed Com 201H | L4 36-26S-30E | 330 FSL | 279 FWL  | 32.0010601  | -103.8424129 | NWSW 25-26S-30E | 2464 FSL | 638 FWL  | 32.0128419  | -103.8412680 |
|                         | Nailed It Fed Com 205H | L4 36-26S-30E | 330 FSL | 304 FWL  | 32.0010602  | -103.8423323 | NWSW 25-26S-30E | 2464 FSL | 1254 FWL | 32.0128378  | -103.8392806 |
|                         | Nailed It Fed Com 211H | L4 36-26S-30E | 305 FSL | 279 FWL  | 32.0009914  | -103.8424129 | NWSW 25-26S-30E | 2464 FSL | 331 FWL  | 32.0128440  | -103.8422585 |
|                         | Nailed It Fed Com 215H | L4 36-26S-30E | 305 FSL | 304 FWL  | 32.0009915  | -103.8423323 | NWSW 25-26S-30E | 2464 FSL | 946 FWL  | 32.0128399  | -103.8402743 |
|                         | Nailed It Fed Com 221H | L4 36-26S-30E | 330 FSL | 384 FWL  | 32.0010603  | -103.8420742 | NWSW 25-26S-30E | 2464 FSL | 331 FWL  | 32.0128440  | -103.8422585 |
|                         | Nailed It Fed Com 225H | L4 36-26S-30E | 330 FSL | 434 FWL  | 32.0010604  | -103.8419129 | NWSW 25-26S-30E | 2464 FSL | 1170 FWL | 32.0128384  | -103.8395516 |
|                         | Nailed It Fed Com 231H | L4 36-26S-30E | 330 FSL | 409 FWL  | 32.0010604  | -103.8419936 | NWSW 25-26S-30E | 2464 FSL | 750 FWL  | 32.0128412  | -103.8409067 |
|                         | Nailed It Fed Com 241H | L4 36-26S-30E | 305 FSL | 384 FWL  | 32.0009916  | -103.8420742 | NWSW 25-26S-30E | 2464 FSL | 331 FWL  | 32.0128440  | -103.8422585 |
| E2W2<br>Pad<br>(Slot 2) | Nailed It Fed Com 245H | L4 36-26S-30E | 305 FSL | 434 FWL  | 32.0009917  | -103.8419129 | NWSW 25-26S-30E | 2464 FSL | 1170 FWL | 32.0128384  | -103.8395516 |
|                         | Nailed It Fed Com 202H | L3 36-26S-30E | 230 FSL | 1840 FWL | 32.0007876  | -103.8373781 | NESW 25-26S-30E | 2465 FSL | 1870 FWL | 32.0128336  | -103.8372932 |
|                         | Nailed It Fed Com 207H | L3 36-26S-30E | 230 FSL | 1865 FWL | 32.0007876  | -103.8372974 | NESW 25-26S-30E | 2465 FSL | 2486 FWL | 32.0128294  | -103.8353058 |
|                         | Nailed It Fed Com 212H | L3 36-26S-30E | 205 FSL | 1840 FWL | 32.0007189  | -103.8373780 | NESW 25-26S-30E | 2464 FSL | 1562 FWL | 32.0128357  | -103.8382869 |
|                         | Nailed It Fed Com 217H | L3 36-26S-30E | 205 FSL | 1865 FWL | 32.0007189  | -103.8372974 | NESW 25-26S-30E | 2465 FSL | 2178 FWL | 32.0128315  | -103.8362995 |
|                         | Nailed It Fed Com 222H | L3 36-26S-30E | 230 FSL | 1970 FWL | 32.0007878  | -103.8369587 | NESW 25-26S-30E | 2465 FSL | 2010 FWL | 32.0128327  | -103.8368415 |
|                         | Nailed It Fed Com 232H | L3 36-26S-30E | 205 FSL | 1970 FWL | 32.0007190  | -103.8369587 | NESW 25-26S-30E | 2465 FSL | 2430 FWL | 32.0128298  | -103.8354865 |
|                         | Nailed It Fed Com 235H | L3 36-26S-30E | 230 FSL | 1945 FWL | 32.0007877  | -103.8370394 | NESW 25-26S-30E | 2464 FSL | 1590 FWL | 32.0128355  | -103.8381966 |
| W2E2<br>Pad<br>(Slot 3) | Nailed It Fed Com 242H | L3 36-26S-30E | 205 FSL | 1945 FWL | 32.0007190  | -103.8370393 | NESW 25-26S-30E | 2465 FSL | 2010 FWL | 32.0128327  | -103.8368415 |
|                         | Nailed It Fed Com 203H | L2 36-26S-30E | 701 FSL | 2225 FEL | 32.0020849  | -103.8332991 | NWSE 25-26S-30E | 2465 FSL | 2178 FEL | 32.0128248  | -103.8331593 |
|                         | Nailed It Fed Com 206H | L2 36-26S-30E | 701 FSL | 2200 FEL | 32.0020849  | -103.8332184 | NWSE 25-26S-30E | 2465 FSL | 1562 FEL | 32.0128206  | -103.8311720 |
|                         | Nailed It Fed Com 213H | L2 36-26S-30E | 676 FSL | 2225 FEL | 32.0020162  | -103.8332990 | NWSE 25-26S-30E | 2465 FSL | 2486 FEL | 32.0128269  | -103.8341530 |
|                         | Nailed It Fed Com 216H | L2 36-26S-30E | 676 FSL | 2200 FEL | 32.0020162  | -103.8332184 | NWSE 25-26S-30E | 2465 FSL | 1870 FEL | 32.0128227  | -103.8321657 |
|                         | Nailed It Fed Com 223H | L2 36-26S-30E | 701 FSL | 2120 FEL | 32.0020850  | -103.8329603 | NWSE 25-26S-30E | 2465 FSL | 2430 FEL | 32.0128266  | -103.8339724 |
|                         | Nailed It Fed Com 226H | L2 36-26S-30E | 701 FSL | 2070 FEL | 32.0020851  | -103.8327990 | NWSE 25-26S-30E | 2465 FSL | 1590 FEL | 32.0128207  | -103.8312623 |
|                         | Nailed It Fed Com 233H | L2 36-26S-30E | 701 FSL | 2095 FEL | 32.0020851  | -103.8328797 | NWSE 25-26S-30E | 2465 FSL | 2010 FEL | 32.0128237  | -103.8326173 |
| E2E2<br>Pad<br>(Slot 4) | Nailed It Fed Com 243H | L2 36-26S-30E | 676 FSL | 2120 FEL | 32.0020163  | -103.8329603 | NWSE 25-26S-30E | 2465 FSL | 2430 FEL | 32.0128266  | -103.8339724 |
|                         | Nailed It Fed Com 246H | L2 36-26S-30E | 676 FSL | 2070 FEL | 32.0020164  | -103.8327990 | NWSE 25-26S-30E | 2465 FSL | 1590 FEL | 32.0128207  | -103.8312623 |
|                         | Nailed It Fed Com 204H | L1 36-26S-30E | 766 FSL | 588 FEL  | 32.0022660  | -103.8280170 | NESE 25-26S-30E | 2466 FSL | 946 FEL  | 32.0128162  | -103.8291846 |
|                         | Nailed It Fed Com 208H | L1 36-26S-30E | 766 FSL | 563 FEL  | 32.0022660  | -103.8279364 | NESE 25-26S-30E | 2466 FSL | 331 FEL  | 32.0128119  | -103.8272004 |
|                         | Nailed It Fed Com 214H | L1 36-26S-30E | 741 FSL | 588 FEL  | 32.0021972  | -103.8280170 | NESE 25-26S-30E | 2465 FSL | 1254 FEL | 32.0128184  | -103.8301783 |
|                         | Nailed It Fed Com 218H | L1 36-26S-30E | 741 FSL | 563 FEL  | 32.0021973  | -103.8279363 | NESE 25-26S-30E | 2466 FSL | 638 FEL  | 32.0128141  | -103.8281909 |
|                         | Nailed It Fed Com 224H | L1 36-26S-30E | 766 FSL | 668 FEL  | 32.0022659  | -103.8282751 | NESE 25-26S-30E | 2466 FSL | 750 FEL  | 32.0128149  | -103.8285522 |
|                         | Nailed It Fed Com 234H | L1 36-26S-30E | 741 FSL | 668 FEL  | 32.0021971  | -103.8282750 | NESE 25-26S-30E | 2466 FSL | 331 FEL  | 32.0128119  | -103.8272004 |
|                         | Nailed It Fed Com 236H | L1 36-26S-30E | 766 FSL | 693 FEL  | 32.0022658  | -103.8283557 | NESE 25-26S-30E | 2465 FSL | 1170 FEL | 32.0128178  | -103.8299072 |
|                         | Nailed It Fed Com 244H | L1 36-26S-30E | 741 FSL | 693 FEL  | 32.0021971  | -103.8283557 | NESE 25-26S-30E | 2466 FSL | 750 FEL  | 32.0128149  | -103.8285522 |

## **I. GENERAL PROVISIONS**

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

## **II. PERMIT EXPIRATION**

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

## **III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES**

Any cultural resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

OR

If the entire project is covered under the Permian Basin Programmatic Agreement (cultural resources only):

The proponent has contributed funds commensurate to the undertaking into an account for offsite mitigation. Participation in the PA serves as mitigation for the effects of this project on cultural resources. If any human skeletal remains, funerary objects, sacred objects, or objects of cultural patrimony are discovered at any time during construction, all construction activities shall halt and the BLM will be notified as soon as possible within 24 hours. Work shall not resume until a Notice to Proceed is issued by the BLM. See information below discussing NAGPRA.

If the proposed project is split between a Class III inventory and a Permian Basin Programmatic Agreement contribution, the portion of the project covered under Class III inventory should default to the first paragraph stipulations.

The holder is hereby obligated to comply with procedures established in the Native American Graves Protection and Repatriation Act (NAGPRA) to protect such cultural items as human remains, associated funerary objects, sacred objects, and objects of cultural patrimony discovered inadvertently during the course of project implementation. In the event that any of the cultural items listed above are discovered during the course of project work, the proponent shall immediately halt the disturbance and contact the BLM within 24 hours for instructions. The proponent or initiator of any project shall be held responsible for protecting, evaluating, reporting, excavating, treating, and disposing of these cultural items according to the procedures established by the BLM in consultation with Indian Tribes."

Any paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the Authorized Officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery will be made by the Authorized Officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the Authorized Officer after consulting with the holder.

#### **IV. NOXIOUS WEEDS**

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

#### **SPECIAL REQUIREMENT(S)**

##### **Cave/Karst:**

##### **Road Construction:**

- Turnout ditches and drainage leadoffs will not be constructed in such a manner as to alter the natural flow of water into or out of cave or karst features.
- Special restoration stipulations or realignment may be required if subsurface features are discovered during construction.

#### **CONSTRUCTION**

##### **A. NOTIFICATION**

The BLM shall administer compliance and monitor construction of the access road. Notify the Carlsbad Field Office at (575) 234-5909 at least 3 working days prior to commencing construction of the access road and/or well pad.

##### **B. FEDERAL MINERAL MATERIALS PIT**

Payment shall be made to the BLM prior to removal of any federal mineral materials. Call the Carlsbad Field Office at (575) 234-5972.

##### **C. ON LEASE ACCESS ROADS**

##### **Road Width**

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed twenty-five (25) feet.

##### **Surfacing**

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

#### **Crowning**

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

#### **Ditching**

Ditching shall be required on both sides of the road.

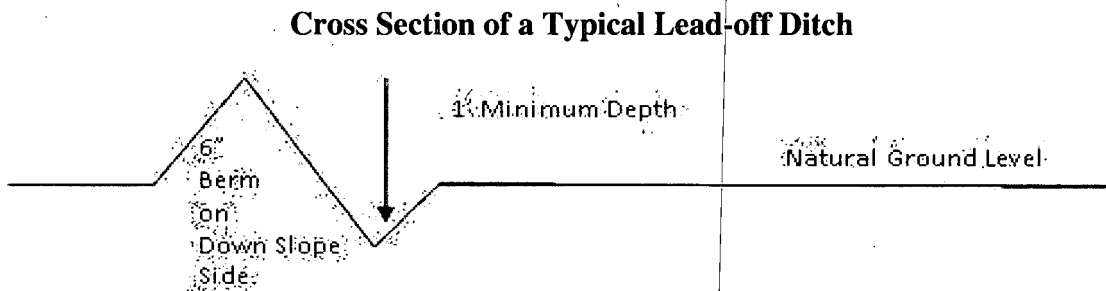
#### **Turnouts**

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

#### **Drainage**

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

### **Formula for Spacing Interval of Lead-off Ditches**

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

$$400 \text{ foot road with } 4\% \text{ road slope: } \frac{400'}{4\%} + 100' = 200' \text{ lead-off ditch interval}$$

#### **Cattle guards**

An appropriately sized cattle guard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattle guards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattle guards that are in place and are utilized during lease operations.

#### **Fence Requirement**

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

#### **Public Access**

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

## Construction Steps

1. Salvage topsoil
2. Construct road

3. Redistribute topsoil
4. Revegetate slopes

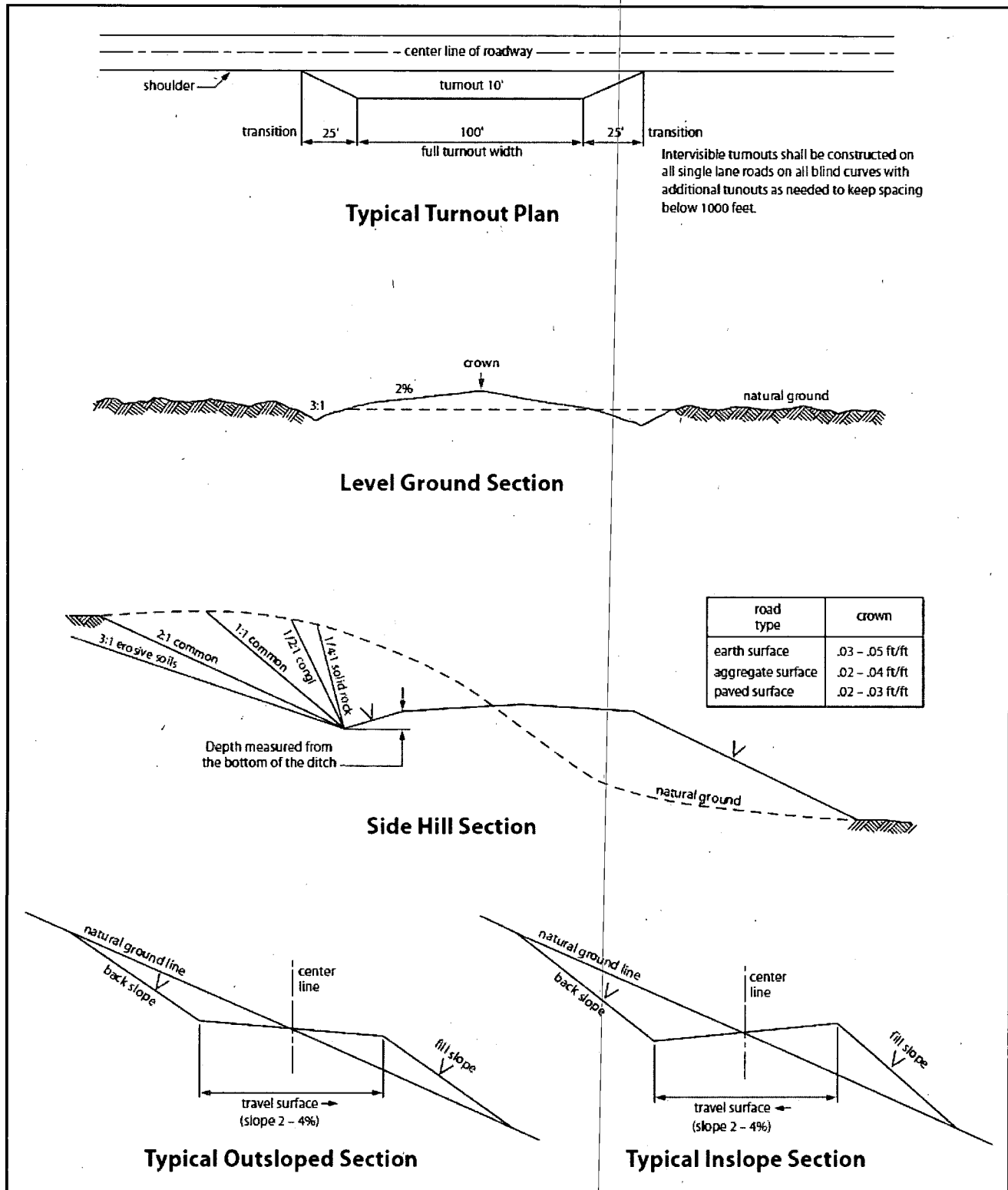


Figure 1. Cross-sections and plans for typical road sections representative of BLM resource or FS local and higher-class roads.



## **Seed Mixture 2, for Sandy Sites**

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)\* per acre. There shall be no primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law (s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed\* per acre:

### **Species**

|   | <u>lb/acre</u> |
|---|----------------|
| Sand dropseed ( <i>Sporobolus cryptandrus</i> )     | 1.0            |
| Sand love grass ( <i>Eragrostis trichodes</i> )     | 1.0            |
| Plains bristlegrass ( <i>Setaria macrostachya</i> ) | 2.0            |

\*Pounds of pure live seed:

Pounds of seed x percent purity x percent germination = pounds pure live seed

# PECOS DISTRICT

## DRILLING CONDITIONS OF APPROVAL

|                              |                          |
|------------------------------|--------------------------|
| <b>OPERATOR'S NAME:</b>      | Tap Rock Operating LLC   |
| <b>WELL NAME &amp; NO.:</b>  | Nailed It Fed Com 207H   |
| <b>SURFACE HOLE FOOTAGE:</b> | 230 FSL / 1840 FWL       |
| <b>BOTTOM HOLE FOOTAGE:</b>  | 2465 FSL / 1870 FWL      |
| <b>LOCATION:</b>             | Sec 36 / 26S / 30E / NMP |
| <b>COUNTY:</b>               | Eddy County, New Mexico  |

COA

|                      |  |  |                                       |
|----------------------|--|--|---------------------------------------|
| H2S                  | <input type="radio"/> Yes                        | <input checked="" type="radio"/> No        |                                       |
| Potash               | <input checked="" type="radio"/> None            | <input type="radio"/> Secretary            | <input type="radio"/> R-111-P         |
| Cave/Karst Potential | <input type="radio"/> Low                        | <input type="radio"/> Medium               | <input checked="" type="radio"/> High |
| Cave/Karst Potential | <input type="radio"/> Critical                   |  |                                       |
| Variance             | <input type="radio"/> None                       | <input checked="" type="radio"/> Flex Hose | <input type="radio"/> Other           |
| Wellhead             | <input type="radio"/> Conventional               | <input checked="" type="radio"/> Multibowl | <input type="radio"/> Both            |
| Other                | <input type="checkbox"/> 4 String Area           | <input type="checkbox"/> Capitan Reef      | <input type="checkbox"/> WIPP         |
| Other                | <input checked="" type="checkbox"/> Fluid Filled | <input type="checkbox"/> Cement Squeeze    | <input type="checkbox"/> Pilot Hole   |
| Special Requirements | <input type="checkbox"/> Water Disposal          | <input checked="" type="checkbox"/> COM    | <input type="checkbox"/> Unit         |

### A. HYDROGEN SULFIDE

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

### B. CASING

1. The **13-3/8** inch surface casing shall be set at approximately 920 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) and cemented to the surface.
  - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
  - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to

include the lead cement)

- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
- d. If cement falls back, remedial cementing will be done prior to drilling out that string.

**Intermediate casing must be kept fluid filled to meet BLM minimum collapse requirement.**

- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 3. The minimum required fill of cement behind the **7-5/8** inch intermediate casing is:
  - Cement to surface. If cement does not circulate see B.1.a, c-d above.  
**Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
  - ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 4. The minimum required fill of cement behind the **5-1/2** inch production casing is:
  - Cement should tie-back at least **200 feet** into previous casing string.  
Operator shall provide method of verification.

### **C. PRESSURE CONTROL**

- 1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).'
- 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M)** psi.
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

#### **D. SPECIAL REQUIREMENT (S)**

##### **Communitization Agreement**

- The operator will submit a Communitization Agreement to the Carlsbad Field Office, 620 E Greene St. Carlsbad, New Mexico 88220, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

## **GENERAL REQUIREMENTS**

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

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

☒ Eddy County

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

☒ Lea County

Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575)  
393-3612

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
  - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
  - b. When the operator proposes to set surface casing with Spudder Rig
    - Notify the BLM when moving in and removing the Spudder Rig.
    - Notify the BLM when moving in the 2<sup>nd</sup> Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
    - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

#### A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

**B. PRESSURE CONTROL**

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
  - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
  - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
  - c. Manufacturer representative shall install the test plug for the initial BOP test.
  - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
  - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
  - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
  - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for

the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

#### C. DRILLING MUD

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

#### D. WASTE MATERIAL AND FLUIDS

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

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





U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# Operator Certification Data Report

02/25/2020

## Operator Certification

*I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of state and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.*

**NAME:** Brian Wood

**Title:** President

**Street Address:** 37 Verano Loop

**City:** Santa Fe

**State:** NM

**Phone:** (505)466-8120

**Email address:** afmss@permitswest.com

**Signed on:** 08/29/2019

**Zip:** 87508

## Field Representative

**Representative Name:**

**Street Address:**

**City:**

**State:**

**Zip:**

**Phone:**

**Email address:**



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

## Application Data Report

02/25/2020

APD ID: 10400046731

Submission Date: 08/30/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

### Section 1 - General

APD ID: 10400046731

Tie to previous NOS? N

Submission Date: 08/30/2019

BLM Office: CARLSBAD

User: Brian Wood

Title: President

Federal/Indian APD: FED

Is the first lease penetrated for production Federal or Indian? FED

Lease number: NMNM138850

Lease Acres: 320

Surface access agreement in place?

Allotted?

Reservation:

Agreement in place? NO

Federal or Indian agreement:

Agreement number:

Agreement name:

Keep application confidential? N

Permitting Agent? YES

APD Operator: TAP ROCK OPERATING LLC

Operator letter of designation:

### Operator Info

Operator Organization Name: TAP ROCK OPERATING LLC

Operator Address: 602 Park Point Drive Suite 200

Zip: 80401

Operator PO Box:

Operator City: Golden

State: CO

Well Number: 207H

**Is the proposed well in an area containing other mineral resources?** OTHER, NATURAL GAS, OIL

**Describe other minerals:** Salt

Is the proposed well in a Helium production area? N Use Existing Well Pad? N New surface disturbance?

**Type of Well Pad:** MULTIPLE WELL

**Multiple Well Pad Name:** Nailed **Number:** Slot 2

**Well Class:** HORIZONTAL

It Fed Com

Number of Legs: 1

**Well Work Type:** Drill

**Well Type:** CONVENTIONAL GAS WELL

**Describe Well Type:**

**Well sub-Type: INFILL**

**Describe sub-type:**

**Distance to town: 20 Miles**

**Distance to nearest well: 25 FT**

**Distance to lease line: 230 FT**

**Reservoir well spacing assigned acres Measurement: 289.2 Acres**

**Well plat:** Nailed\_207H\_C102\_GCP\_20190829112148.pdf

**Well work start Date:** 01/01/2020

**Duration: 30 DAYS**

### Section 3 - Well Location Table

**Survey Type:** RECTANGULAR

**Describe Survey Type:**

Datum: NAD83

**Vertical Datum: NAVD88**

**Survey number: 11401**

**Reference Datum: GROUND LEVEL**

[illegible]

produce

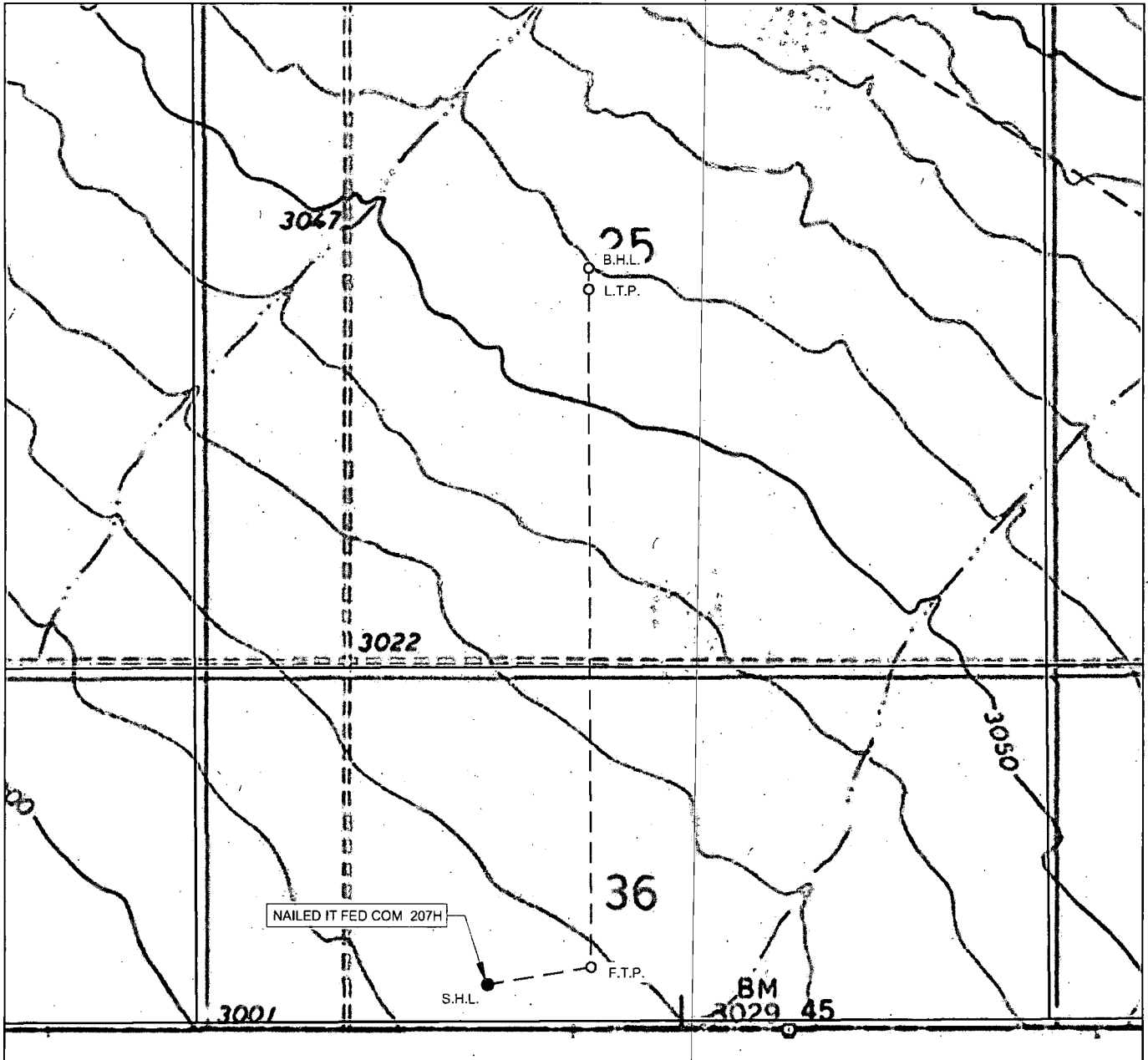
Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

| Wellbore           | NS-Foot  | NS Indicator | EW-Foot  | EW Indicator | Twsp | Range | Section | Aliquot/Lot/Tract | Latitude       | Longitude            | County   | State             | Meridian          | Lease Type | Lease Number   | Elevation     | MD        | TVD       | Will this well produce from this lease? |
|--------------------|----------|--------------|----------|--------------|------|-------|---------|-------------------|----------------|----------------------|----------|-------------------|-------------------|------------|----------------|---------------|-----------|-----------|---|
| PPP<br>Leg<br>#1-2 | 820      | FSL          | 248<br>6 | FW<br>L      | 26S  | 30E   | 36      | Aliquot<br>NENW   | 32.00240<br>6  | -<br>103.8352<br>54  | EDD<br>Y | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | S          | STATE          | -<br>789<br>7 | 114<br>30 | 109<br>15 | Y                                       |
| EXIT<br>Leg<br>#1  | 246<br>5 | FSL          | 248<br>6 | FW<br>L      | 26S  | 30E   | 25      | Aliquot<br>NESW   | 32.01282<br>94 | -<br>103.8353<br>058 | EDD<br>Y | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>138850 | -<br>791<br>3 | 152<br>20 | 109<br>31 | Y                                       |
| BHL<br>Leg<br>#1   | 246<br>5 | FSL          | 248<br>6 | FW<br>L      | 26S  | 30E   | 25      | Aliquot<br>NESW   | 32.01282<br>94 | -<br>103.8353<br>058 | EDD<br>Y | NEW<br>MEXI<br>CO | NEW<br>MEXI<br>CO | F          | NMNM<br>138850 | -<br>791<br>3 | 152<br>20 | 109<br>31 | Y                                       |

# LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: NAILED IT FED COM 207H

SECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M.  
 COUNTY EDDY STATE NM ELEVATION 3018'  
 DESCRIPTION 230' FSL & 1865' FWL

LATITUDE N 32.0007876 LONGITUDE W 103.8372974



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

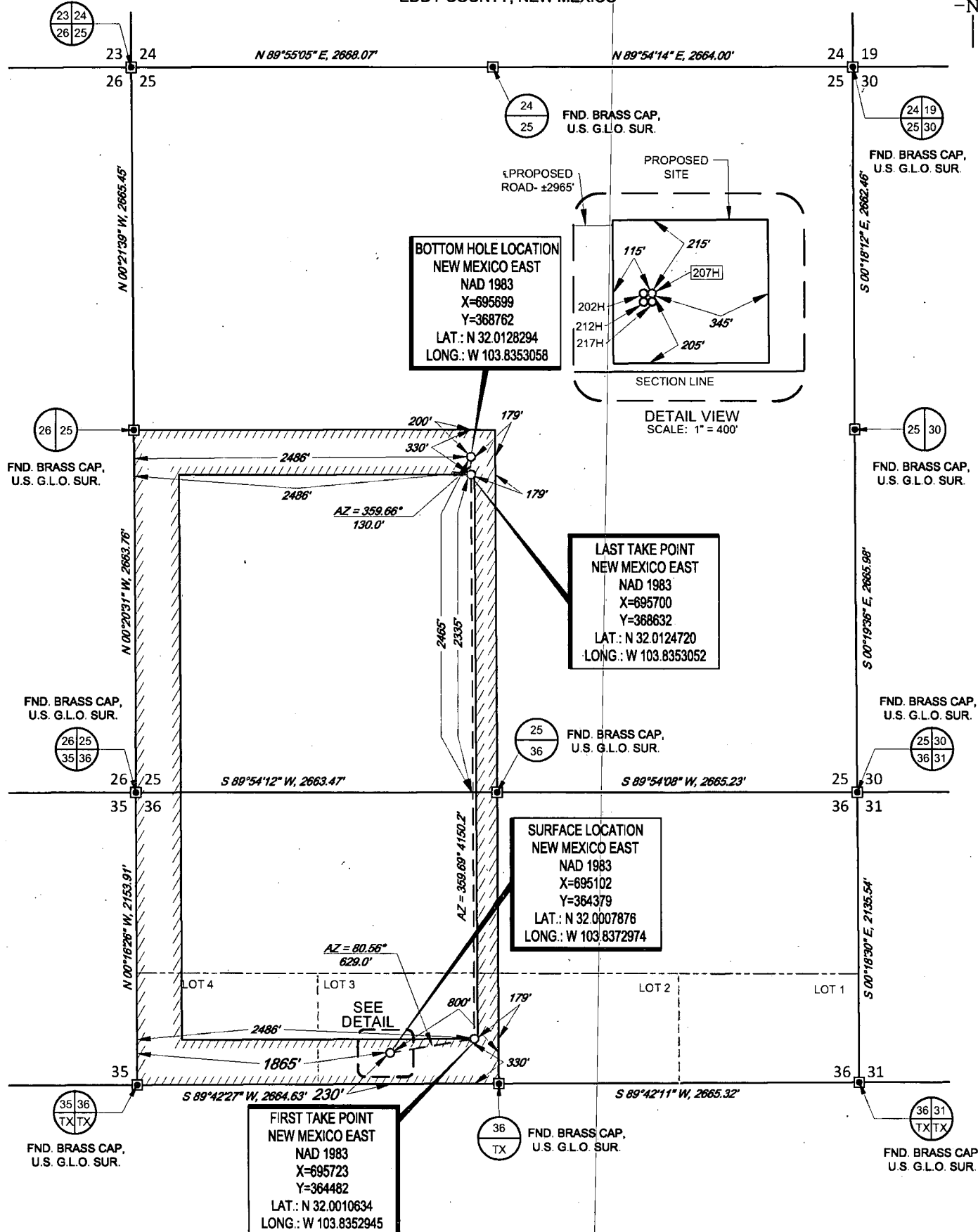
1400 EVERMAN PARKWAY, Ste. 146 • FT. WORTH, TEXAS 76140  
 TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
 WWW.TOPOGRAPHIC.COM

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

# TAP ROCK EXHIBIT 2A

FND. BRASS CAP.  
U.S. G.L.O. SUR.

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



LEASE NAME & WELL NO.: NAILED IT FED COM 207H

SECTION 36 TWP 26-S RGE 30-E SURVEY N.M.P.M.  
COUNTY EDDY STATE NM  
DESCRIPTION 230' FSL & 1865' FWL

### DISTANCE & DIRECTION

FROM INT. OF US-285 & COUNTY RD 396, GO SOUTH ON US-285 ±12.6 MILES, THENCE EAST (LEFT) ON WHITEHORN RD. ±2.4 MILES, THENCE NORTH (LEFT) ON LONGHORN RD. ±1.9 MILES, THENCE SOUTH (RIGHT) ON WHITEHORN RD. ±3.3 MILES, THENCE WEST (RIGHT) ON PROPOSED RD. ±3.0 MILES, THENCE EAST (LEFT) ON STATE LINE RD. ±6.0 MILES, THENCE SOUTH (RIGHT) ON PROPOSED RD. ±0.6 MILES TO A POINT ±230 FEET NORTH OF THE LOCATION.

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

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.



John Trevor Carnegie, P.S. No. 11401  
JUNE 17, 2019



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

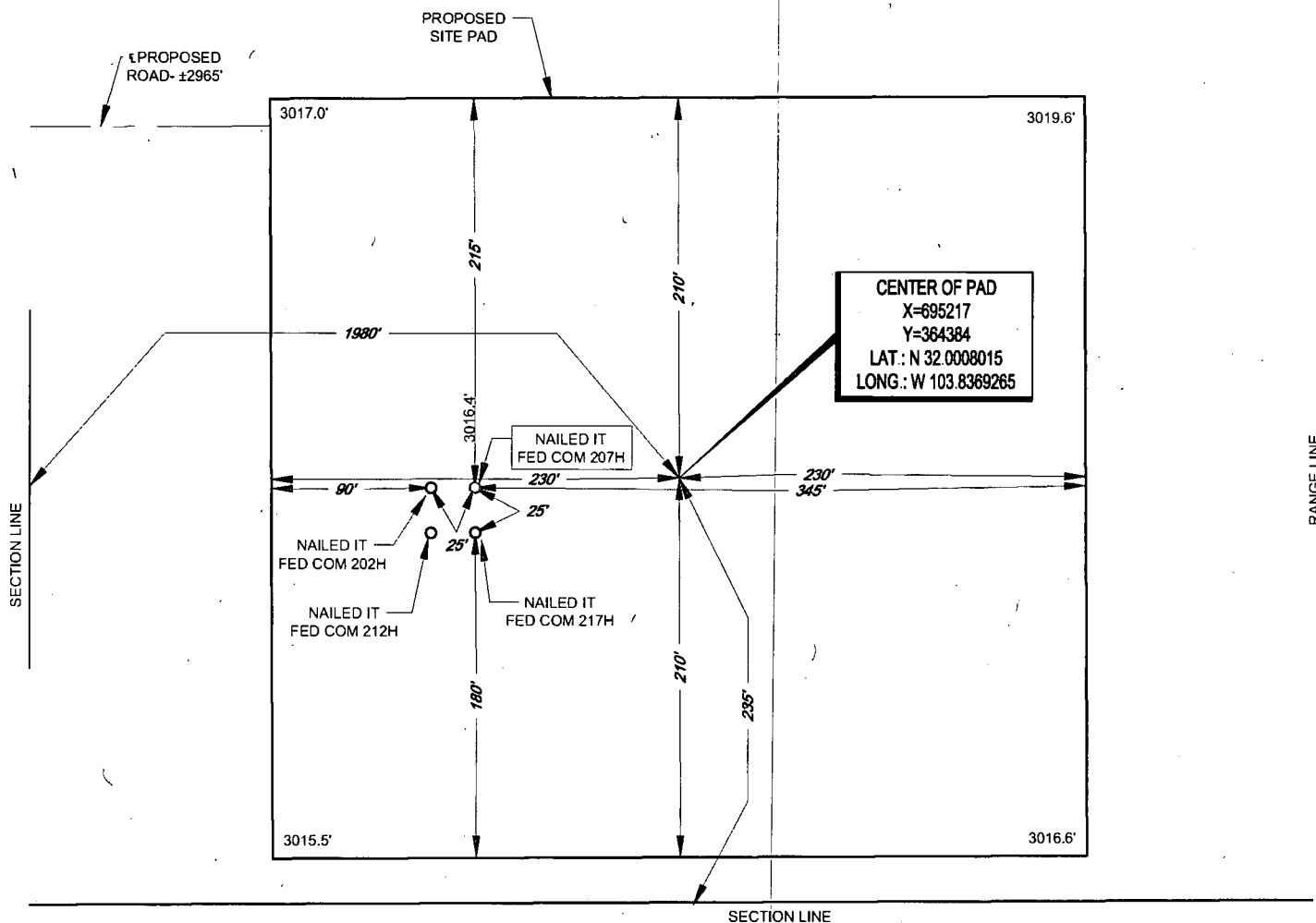
1400 EVERMAN PARKWAY, Ste. 148 • FT. WORTH, TEXAS 76140  
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554  
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
WWW.TOPOGRAPHIC.COM

# EXHIBIT 2B



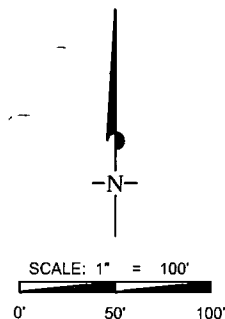
SECTION 36, TOWNSHIP 26-S, RANGE 30-E, N.M.P.M.  
EDDY COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'



LEASE NAME & WELL NO.: NAILED IT FED COM 207H  
207H LATITUDE N 32.0007876 207H LONGITUDE W 103.8372974

CENTER OF PAD IS 235' FSL & 1980' FWL



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

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.



**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



U.S. Department of the Interior  
BUREAU OF LAND MANAGEMENT

# Drilling Plan Data Report

02/25/2020

APD ID: 10400046731

Submission Date: 08/30/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

## Section 1 - Geologic Formations

| Formation ID | Formation Name  | Elevation | True Vertical Depth | Measured Depth | Lithologies   | Mineral Resources | Producing Formation |
|--------------|-----------------|-----------|---------------------|----------------|---------------|-------------------|---------------------|
| 526134       | QUATERNARY      | 3018      | 0                   | 0              | OTHER : None  | NONE              | N                   |
| 526135       | RUSTLER         | 2185      | 833                 | 833            | ANHYDRITE     | OTHER : Salt      | N                   |
| 526136       | SALADO          | 1633      | 1385                | 1385           | SALT          | OTHER : Salt      | N                   |
| 526137       | BASE OF SALT    | -404      | 3422                | 3424           | SALT          | OTHER : Salt      | N                   |
| 526139       | BELL CANYON     | -592      | 3610                | 3655           | SANDSTONE     | NATURAL GAS, OIL  | N                   |
| 526138       | LAMAR           | -616      | 3634                | 3636           | LIMESTONE     | NONE              | N                   |
| 526140       | CHERRY CANYON   | -1794     | 4812                | 4874           | SANDSTONE     | NATURAL GAS, OIL  | N                   |
| 526141       | BRUSHY CANYON   | -2747     | 5765                | 5839           | SANDSTONE     | NATURAL GAS, OIL  | N                   |
| 526142       | BONE SPRING     | -4496     | 7514                | 7610           | LIMESTONE     | NATURAL GAS, OIL  | N                   |
| 526143       | BONE SPRING 1ST | -5441     | 8459                | 8559           | SANDSTONE     | NATURAL GAS, OIL  | N                   |
| 526144       | BONE SPRING 2ND | -5791     | 8809                | 8909           | SANDSTONE     | NATURAL GAS, OIL  | N                   |
| 526145       | BONE SPRING 3RD | -6675     | 9693                | 9793           | SANDSTONE     | NATURAL GAS, OIL  | N                   |
| 526146       | WOLFCAMP        | -7734     | 10752               | 10837          | OTHER : Shale | NATURAL GAS, OIL  | Y                   |

## Section 2 - Blowout Prevention



Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

Pressure Rating (PSI): 5M

Rating Depth: 15000

**Equipment:** 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.

**Requesting Variance?** YES

**Variance request:** Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd 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 a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing. 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.

**Testing Procedure:** 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.

**Choke Diagram Attachment:**

Nailed\_Choke\_032918\_20190829113547.pdf

**BOP Diagram Attachment:**

5M\_BOP\_Stack\_20200201084347.pdf

### Section 3 - Casing

| Casing ID | String Type | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length-MD | Grade | Weight | Joint Type | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|-------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|------------|-------------|----------|---------------|----------|--------------|---------|
|-----------|-------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|------------|-------------|----------|---------------|----------|--------------|---------|

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

| Casing ID | String Type  | Hole Size | Csg Size | Condition | Standard | Tapered String | Top Set MD | Bottom Set MD | Top Set TVD | Bottom Set TVD | Top Set MSL | Bottom Set MSL | Calculated casing length MD | Grade | Weight | Joint Type    | Collapse SF | Burst SF | Joint SF Type | Joint SF | Body SF Type | Body SF |
|-----------|--------------|-----------|----------|-----------|----------|----------------|------------|---------------|-------------|----------------|-------------|----------------|-----------------------------|-------|--------|---------------|-------------|----------|---------------|----------|--------------|---------|
| 1         | SURFACE      | 17.5      | 13.375   | NEW       | API      | N              | 0          | 920           | 0           | 920            | 3018        | 2098           | 920                         | J-55  | 54.5   | BUTT          | 1.13        | 1.15     | DRY           | 1.6      | DRY          | 1.6     |
| 2         | INTERMEDIATE | 8.75      | 7.625    | NEW       | API      | N              | 0          | 3400          | 0           | 3389           | 3009        | -371           | 3400                        | P-110 | 29.7   | BUTT          | 1.13        | 1.15     | DRY           | 1.6      | DRY          | 1.6     |
| 3         | INTERMEDIATE | 12.25     | 9.625    | NEW       | API      | N              | 0          | 3700          | 0           | 3689           | 3009        | -671           | 3700                        | J-55  | 40     | BUTT          | 1.13        | 1.15     | DRY           | 1.6      | DRY          | 1.6     |
| 4         | PRODUCTION   | 6.75      | 5.5      | NEW       | API      | N              | 0          | 10180         | 0           | 10142          | 3009        | -7124          | 10180                       | P-110 | 20     | OTHER - TXP   | 1.13        | 1.15     | DRY           | 1.6      | DRY          | 1.6     |
| 5         | INTERMEDIATE | 8.75      | 7.625    | NEW       | API      | Y              | 3400       | 10380         | 3389        | 10342          | -371        | -7324          | 6980                        | P-110 | 29.7   | OTHER - W-513 | 1.13        | 1.15     | DRY           | 1.6      | DRY          | 1.6     |
| 6         | PRODUCTION   | 6.75      | 5.0      | NEW       | API      | Y              | 10180      | 15220         | 10142       | 10931          | -7124       | -7913          | 5040                        | P-110 | 18     | OTHER - W-521 | 1.13        | 1.13     | DRY           | 1.6      | DRY          | 1.6     |

#### Casing Attachments

Casing ID: 1 String Type: SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Nailed\_Casing\_Design\_Assumptions\_20190829113614.pdf

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** NAILED IT FED COM

**Well Number:** 207H

**Casing Attachments**

**Casing ID:** 2      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Nailed\_Casing\_Design\_Assumptions\_20190829113704.pdf

**Casing ID:** 3      **String Type:** INTERMEDIATE

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Nailed\_Casing\_Design\_Assumptions\_20190829113644.pdf

**Casing ID:** 4      **String Type:** PRODUCTION

**Inspection Document:**

**Spec Document:**

**Tapered String Spec:**

**Casing Design Assumptions and Worksheet(s):**

Nailed\_Casing\_Design\_Assumptions\_20190829113806.pdf

Nailed\_5.5in\_TXP\_Casing\_Spec\_20190829113813.PDF

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

#### Casing Attachments

Casing ID: 5 String Type: INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Nailed\_7.625in\_W513\_Casing\_Spec\_20190829113727.pdf

Casing Design Assumptions and Worksheet(s):

Nailed\_Casing\_Design\_Assumptions\_20190829113734.pdf

Casing ID: 6 String Type: PRODUCTION

Inspection Document:

Spec Document:

Tapered String Spec:

Nailed\_5in\_W521\_Casing\_Spec\_20190829113838.pdf

Casing Design Assumptions and Worksheet(s):

Nailed\_Casing\_Design\_Assumptions\_20190829113846.pdf

#### Section 4 - Cement

| String Type  | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives                                |
|--------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| PRODUCTION   | Lead      |                  | 0      | 0         | 0            | 0     | 0       | 0     | 0       | None        | 0  |
| PRODUCTION   | Tail      |                  | 9680   | 15220     | 454          | 1.71  | 14.2    | 777   | 25      | Class H     | Fluid Loss + Dispersant + Retarder + LCM |
| INTERMEDIATE | Lead      |                  | 0      | 0         | 0            | 0     | 0       | 0     | 0       | None        | None                                     |

|            |      |  |   |   |   |   |   |   |   |      |      |
|------------|------|--|---|---|---|---|---|---|---|------|------|
| PRODUCTION | Lead |  | 0 | 0 | 0 | 0 | 0 | 0 | 0 | None | None |
|------------|------|--|---|---|---|---|---|---|---|------|------|

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

| String Type  | Lead/Tail | Stage Tool Depth | Top MD | Bottom MD | Quantity(sx) | Yield | Density | Cu Ft | Excess% | Cement type | Additives                                |
|--------------|-----------|------------------|--------|-----------|--------------|-------|---------|-------|---------|-------------|--|
| SURFACE      | Lead      |                  | 0      | 598       | 462          | 1.8   | 13.5    | 831   | 100     | Class C     | None                                     |
| SURFACE      | Tail      |                  | 598    | 920       | 331          | 1.35  | 14.8    | 447   | 100     | Class C     | 5% NCI + LCM                             |
| INTERMEDIATE | Lead      |                  | 0      | 2960      | 702          | 2.18  | 12.7    | 1529  | 65      | Class C     | Bentonite + 1% CaCL2 + 8% NaCl + LCM     |
| INTERMEDIATE | Tail      |                  | 2960   | 3700      | 287          | 1.33  | 14.8    | 382   | 65      | Class C     | 5% NaCl + LCM                            |
| INTERMEDIATE | Lead      |                  | 3400   | 9380      | 283          | 2.87  | 11.5    | 811   | 35      | TXI         | Fluid Loss + Dispersant + Retarder + LCM |
| INTERMEDIATE | Tail      |                  | 9380   | 10380     | 107          | 1.27  | 15      | 136   | 35      | Class H     | Fluid Loss + Dispersant + Retarder + LCM |

### Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with Onshore Order #2:

Diagram of the equipment for the circulating system in accordance with Onshore Order #2:

Describe what will be on location to control well or mitigate other conditions: 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.

Describe the mud monitoring system utilized: Electronic Pason mud monitor system complying with Onshore Order 1 will be used.

### Circulating Medium Table

| Top Depth | Bottom Depth | Mud Type                      | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|-------------------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 0         | 920          | OTHER : Fresh water spud mud  | 8.3                  | 8.3                  |                     |                             |    |                |                |                 |                            |
| 920       | 3700         | OTHER : Brine Water           | 10                   | 10                   |                     |                             |    |                |                |                 |                            |
| 3700      | 10380        | OTHER : Fresh water/cut brine | 9                    | 9                    |                     |                             |    |                |                |                 |                            |

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** NAILED IT FED COM

**Well Number:** 207H

| Top Depth | Bottom Depth | Mud Type         | Min Weight (lbs/gal) | Max Weight (lbs/gal) | Density (lbs/cu ft) | Gel Strength (lbs/100 sqft) | PH | Viscosity (CP) | Salinity (ppm) | Filtration (cc) | Additional Characteristics |
|-----------|--------------|------------------|----------------------|----------------------|---------------------|-----------------------------|----|----------------|----------------|-----------------|----------------------------|
| 1038<br>0 | 1522<br>0    | OIL-BASED<br>MUD | 11.5                 | 11.5                 |                     |                             |    |                |                |                 |                            |

## Section 6 - Test, Logging, Coring

**List of production tests including testing procedures, equipment and safety measures:**

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.

CBL w/ CCL from as far as gravity will let it fall to TOC.

**List of open and cased hole logs run in the well:**

GAMMA RAY LOG, CEMENT BOND LOG,

**Coring operation description for the well:**

No DSTs or cores are planned at this time.

## Section 7 - Pressure

**Anticipated Bottom Hole Pressure:** 6530

**Anticipated Surface Pressure:** 4127

**Anticipated Bottom Hole Temperature(F):** 160

**Anticipated abnormal pressures, temperatures, or potential geologic hazards?** NO

**Describe:**

**Contingency Plans geohazards description:**

**Contingency Plans geohazards attachment:**

**Hydrogen Sulfide drilling operations plan required?** YES

**Hydrogen sulfide drilling operations plan:**

Nailed\_Slot2\_H2S\_Plan\_20190829114137.pdf

**Operator Name:** TAP ROCK OPERATING LLC

**Well Name:** NAILED IT FED COM

**Well Number:** 207H

### Section 8 - Other Information

**Proposed horizontal/directional/multi-lateral plan submission:**

Nailed\_207H\_Horizontal\_Plan\_20190829114157.pdf

**Other proposed operations facets description:**

**Other proposed operations facets attachment:**

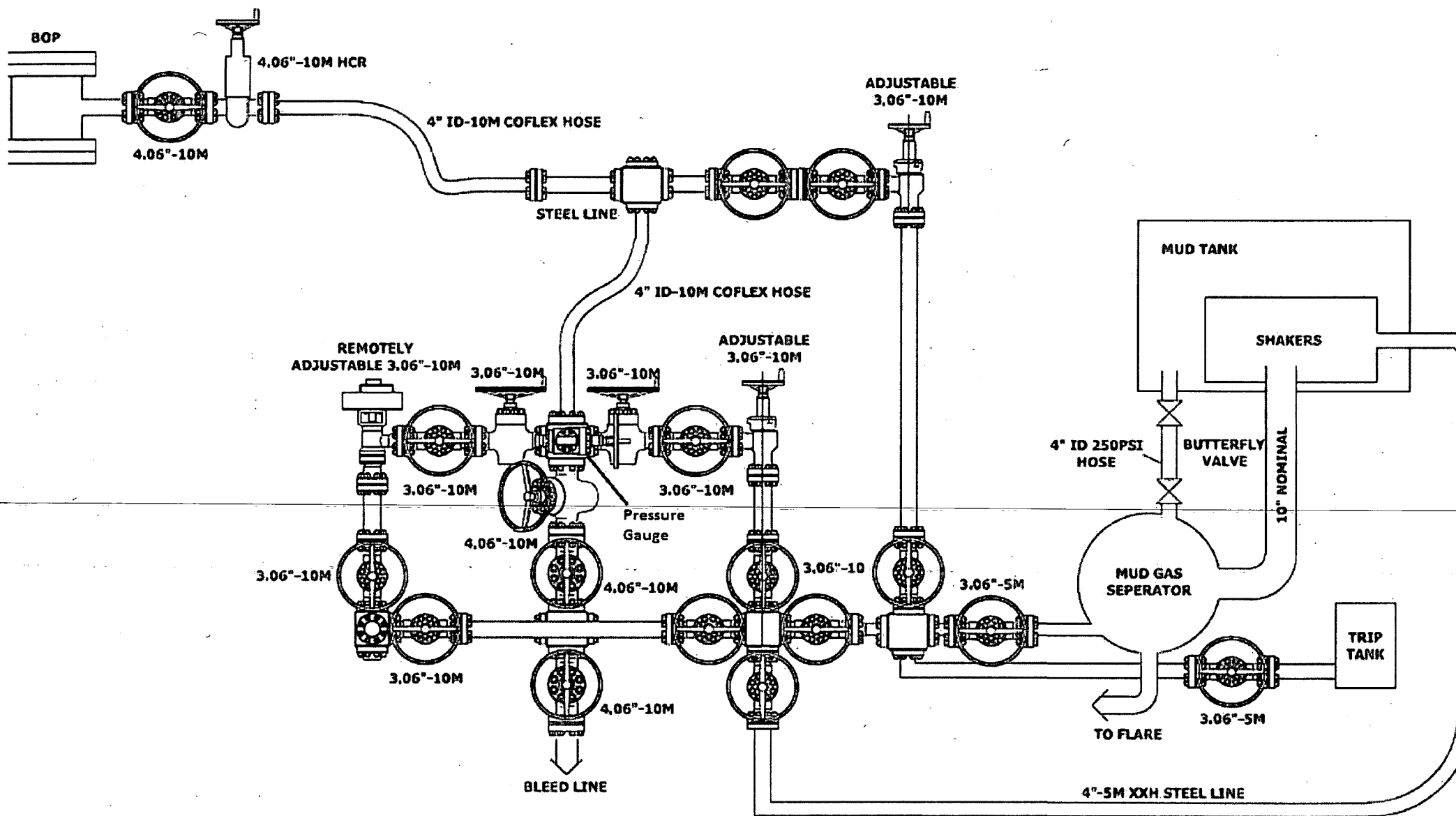
CoFlex\_Certs\_20190829114225.pdf

Nailed\_207H\_Anticollision\_Report\_20190829114241.pdf

Nailed\_207H\_Drill\_Plan\_v2\_013120\_20200201084448.pdf

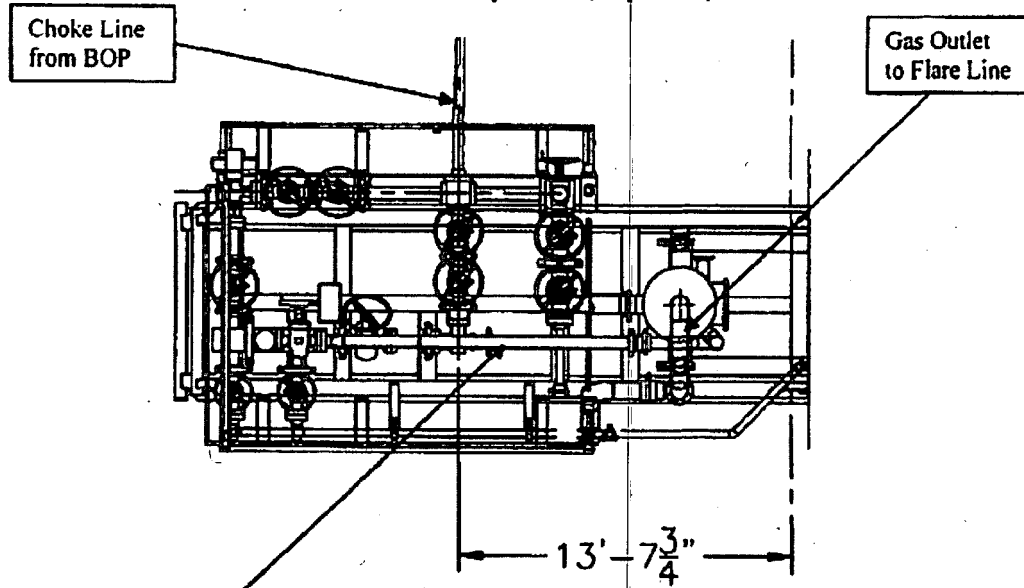
Wellhead\_4T\_012720\_20200201084459.pdf

**Other Variance attachment:**

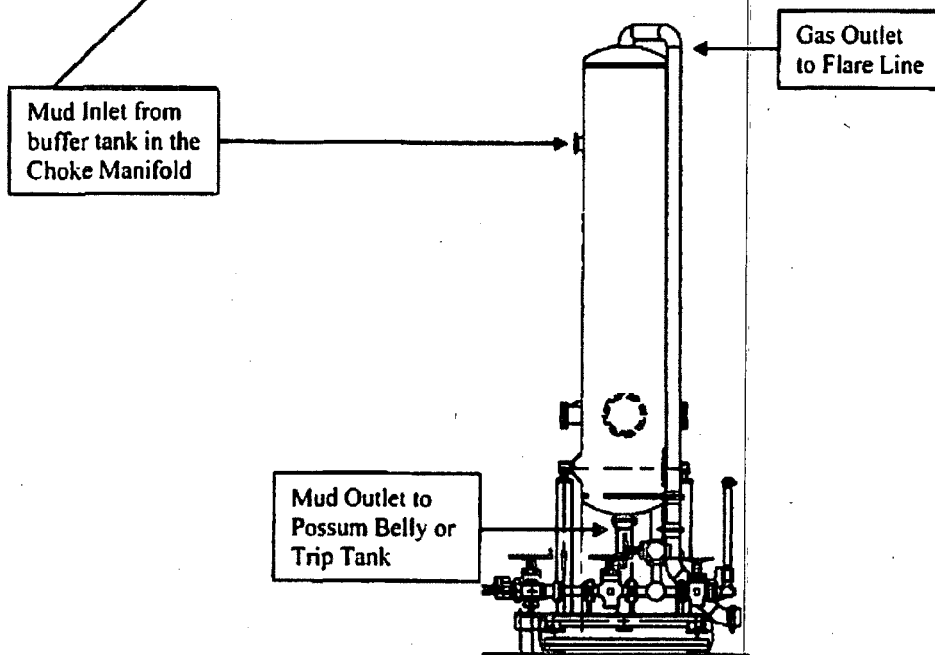




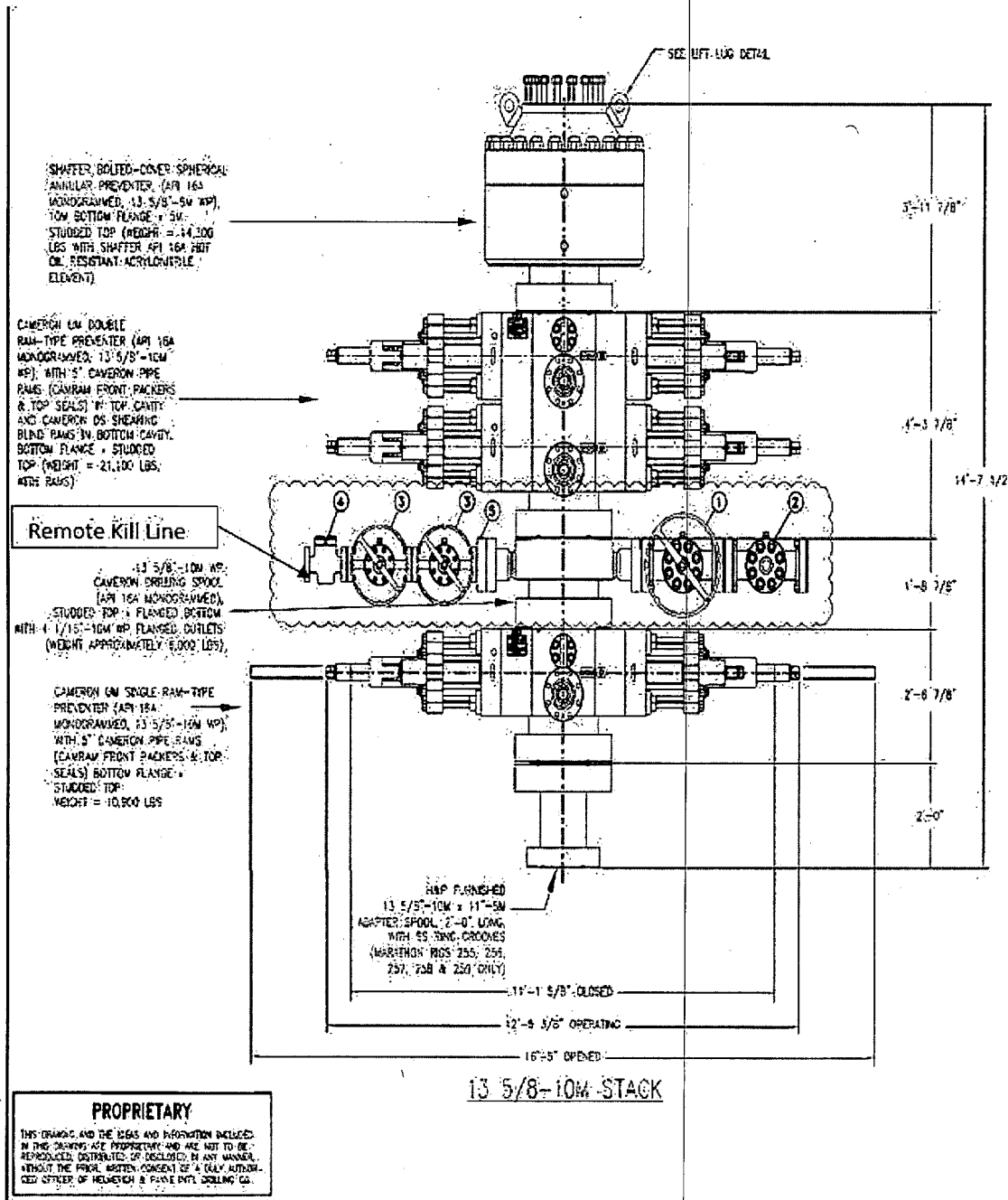
**Choke Manifold – Gas Separator (Top View)**



**Choke Manifold – Gas Separator (Side View)**




# 5,000 psi BOP Stack



## Wedge 513®

Printed on: 01/30/2018



|                  |           |                      |              |                |   |
|------------------|-----------|----------------------|--------------|----------------|---|
| Outside Diameter | 7.625 in. | Min. Wall Thickness  | 87.5%        | (*) Grade P110 |  |
| Wall Thickness   | 0.375 in. | Connection OD Option | REGULAR      | COUPLING       | PIPE BODY   |
| Grade            | P110*     | Drift                | API Standard | Body: White    | 1st Band: White   |
|                  |           | Type                 | Casing       | 1st Band: -    | 2nd Band: -   |
|                  |           |                      |              | 2nd Band: -    | 3rd Band: -   |
|                  |           |                      |              | 3rd Band: -    | 4th Band: -   |

| GEOMETRY                   |               |                      |                   |                            |               |
|----------------------------|---------------|----------------------|-------------------|----------------------------|---------------|
| Nominal OD                 | 7.625 in.     | Nominal Weight       | 29.70 lbs/ft      | Drift                      | 6.75 in.      |
| Nominal ID                 | 6.875 in.     | Wall Thickness       | 0.375 in.         | Plain End Weight           | 29.06 lbs/ft  |
| OD Tolerance               | API           |                      |                   |                            |               |
| PERFORMANCE                |               |                      |                   |                            |               |
| Body Yield Strength        | 940 x1000 lbs | Internal Yield       | 9470 psi          | SMYS                       | 110000 psi    |
| Collapse                   | 5350 psi      |                      |                   |                            |               |
| GEOMETRY                   |               |                      |                   |                            |               |
| Connection OD              | 7.625 in.     | Connection ID        | 6.800 in.         | Make-up Loss               | 4.420 in.     |
| Threads per in             | 3.29          | Connection OD Option | REGULAR           |                            |               |
| PERFORMANCE                |               |                      |                   |                            |               |
| Tension Efficiency         | 60.0 %        | Joint Yield Strength | 564.000 x1000 lbs | Internal Pressure Capacity | 9470.000 psi  |
| Compression Efficiency     | 75.2 %        | Compression Strength | 706.880 x1000 lbs | Max. Allowable Bending     | 39.6 °/100 ft |
| External Pressure Capacity | 5350.000 psi  |                      |                   |                            |               |
| MAKE-UP TORQUES            |               |                      |                   |                            |               |
| Minimum                    | 9000 ft-lbs   | Optimum              | 10800 ft-lbs      | Maximum                    | 15800 ft-lbs  |
| OPERATION LIMIT TORQUES    |               |                      |                   |                            |               |
| Operating Torque           | 47000 ft-lbs  | Yield Torque         | 70000 ft-lbs      |                            |               |

## Notes

This connection is fully interchangeable with:

Wedge 523® - 7.625 in. - 29.7 lbs/ft

Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

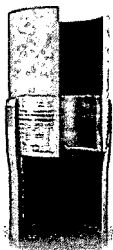
For further information on concepts indicated in this datasheet, download the Datasheet Manual from [www.tenaris.com](http://www.tenaris.com)

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## Wedge 521®

Printed on: 05/22/2018



Outside Diameter 5.000 in.

Min. Wall Thickness 87.5%

(\*) Grade P110-IC



Wall Thickness 0.362 in.

Connection OD Option REGULAR

COUPLING

PIPE BODY

Grade P110-IC\*

Drift API Standard

Body: White

1st Band: White

1st Band: -

2nd Band: Pale

2nd Band: -

Green

3rd Band: -

3rd Band: -

Type Casing

4th Band: -

| GEOMETRY                   |               |                      |                   |                            |               |
|----------------------------|---------------|----------------------|-------------------|----------------------------|---------------|
| Nominal OD                 | 5.000 in.     | Nominal Weight       | 18.00 lbs/ft      | Drift                      | 4.151 in.     |
| Nominal ID                 | 4.276 in.     | Wall Thickness       | 0.362 in.         | Plain End Weight           | 17.95 lbs/ft  |
| OD Tolerance               | API           |                      |                   |                            |               |
| PERFORMANCE                |               |                      |                   |                            |               |
| Body Yield Strength        | 580 x1000 lbs | Internal Yield       | 13940 psi         | SMYS                       | 110000 psi    |
| Collapse                   | 14840 psi     |                      |                   |                            |               |
| GEOMETRY                   |               |                      |                   |                            |               |
| Connection OD              | 5.359 in.     | Connection ID        | 4.226 in.         | Make-up Loss               | 3.620 in.     |
| Threads per in             | 3.36          | Connection OD Option | REGULAR           |                            |               |
| PERFORMANCE                |               |                      |                   |                            |               |
| Tension Efficiency         | 73.8 %        | Joint Yield Strength | 428.040 x1000 lbs | Internal Pressure Capacity | 13940.000 psi |
| Compression Efficiency     | 88.7 %        | Compression Strength | 514.460 x1000 lbs | Max. Allowable Bending     | 74.5 °/100 ft |
| External Pressure Capacity | 14840.000 psi |                      |                   |                            |               |
| MAKE-UP TORQUES            |               |                      |                   |                            |               |
| Minimum                    | 6100 ft-lbs   | Optimum              | 7300 ft-lbs       | Maximum                    | 10700 ft-lbs  |
| OPERATION LIMIT TORQUES    |               |                      |                   |                            |               |
| Operating Torque           | 17300 ft-lbs  | Yield Torque         | 26000 ft-lbs      |                            |               |

## Notes

This connection is fully interchangeable with:

Wedge 521® - 5 in. - 13 / 15 lbs/ft

Connections with Dopeless® Technology are fully compatible with the same connection in its Standard version

For further information on concepts indicated in this datasheet, download the Datasheet Manual from [www.tenaris.com](http://www.tenaris.com)

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### Casing Design Assumptions

- Gas gravity 0.7
- Pore pressure gradient .468 psi/ft above the Wolfcamp, .676 psi/ft Wolfcamp and below
- .676 psi/ft fracture gradient above the Wolfcamp, .832 psi/ft Wolfcamp and below.
- 60°F average surface temperature and 1.5°/100ft temperature gradient
- Cementing loads based on slurries listed in Cement table and post cement static loading
- Strings landed at neutral weight
- Gas kicks assumed at each casing shoe
- External pressure calculated with fluid gradients and pore pressure
- Production string load tested with completion fluid density and rate
- Tubing leak tested in production scenario

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- External pressure calculated with fluid gradients and pore pressure
- Production string load tested with completion fluid density and rate
- Tubing leak tested in production scenario

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

TXP® BTC



|                  |           |                      |              |
|------------------|-----------|----------------------|--------------|
| Outside Diameter | 5.500 in. | Min. Wall Thickness  | 87.5%        |
| Wall Thickness   | 0.361 in. | Drift                | API Standard |
| Grade            | P110      | Type                 | Casing       |
|                  |           | Connection OD Option | REGULAR      |

SHARE EXPORT DATA PRINT

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 |
|------------------|--------------|--------------|--------------|

### Casing Design Assumptions

- Gas gravity 0.7
- Pore pressure gradient .468 psi/ft above the Wolfcamp, .676 psi/ft Wolfcamp and below
- .676 psi/ft fracture gradient above the Wolfcamp, .832 psi/ft Wolfcamp and below.
- 60°F average surface temperature and 1.5°/100ft temperature gradient
- Cementing loads based on slurries listed in Cement table, and post cement static loading
- Strings landed at neutral weight
- Gas kicks assumed at each casing shoe
- External pressure calculated with fluid gradients and pore pressure
- Production string load tested with completion fluid density and rate
- Tubing leak tested in production scenario



## Hydrogen Sulfide Drilling

### Operations Plan

#### Tap Rock Resources

##### 1 H2S safety instructions to the following:

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

##### 2 H2S Detection and Alarm Systems:

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

##### 3 Windssocks and / Wind Streamers:

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

##### 4 Condition Flags and Signs:

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

##### 5 Well Control Equipment:

- See Drilling Operations Plan Schematics

##### 6 Communication:

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



7 Drilling Stem Testing:

- No DST cores are planned at this time

8 Drilling contractor supervisor will be required to be familiar with the effects H<sub>2</sub>S has on tubulars good and other mechanical equipment

9 If H<sub>2</sub>S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H<sub>2</sub>S scavengers if necessary

11 Emergency Contacts

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

# EXHIBIT 2B



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

DETAIL VIEW  
SCALE: 1" = 100'

PRIMARY safety briefing area  
>150' from well head

PROPOSED  
ROAD- ±2965'

PROPOSED  
SITE PAD

flare line (straight)  
& flare >150'  
from well head

highest ground  
to the northeast

warning signs  
& windsock

SECONDARY safety briefing area  
>150' from well head

SECONDARY egress

NAILED IT  
FED COM 202H

NAILED IT  
FED COM 207H

NAILED IT  
FED COM 212H

NAILED IT  
FED COM 217H

windsocks on  
rig floor & at  
mud tanks

SECTION LINE

SECTION LINE

LEASE NAME & WELL NO.: NAILED IT FED COM 202H  
202H LATITUDE N 32.0007876 202H LONGITUDE W 103.8373781

CENTER OF PAD IS 235' FSL & 1980' FWL

prevailing wind  
blows from  
South

N

SCALE: 1" = 100'  
0' 50' 100'

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

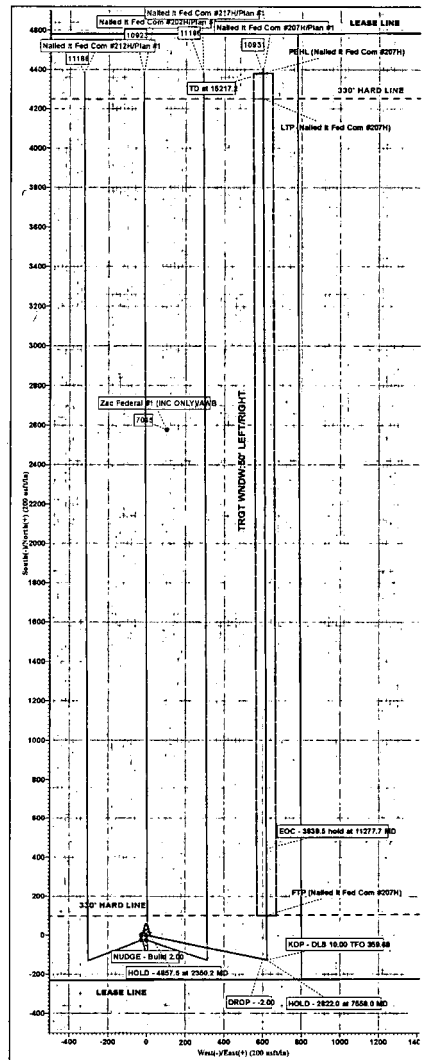
THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER  
MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY,  
AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO  
THOSE PERSONS OR ENTITIES SHOWN ON THE FACE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



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









# **Tap Rock Resources, LLC**

**Eddy County, NM (NAD 83 NME)  
(Nailed It) Sec-36\_T-26-S\_R-30-E  
Nailed It Fed Com #207H**

**OWB**

**Plan: Plan #1**

## **Standard Planning Report**

**18 July, 2019**





# Intrepid Planning Report



|                  |                                  |                                     |                              |
|------------------|----------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db       | <b>Local Co-ordinate Reference:</b> | Well Nailed It Fed Com #207H |
| <b>Company:</b>  | Tap Rock Resources, LLC          | <b>TVD Reference:</b>               | KB @ 3044.0usft              |
| <b>Project:</b>  | Eddy County, NM (NAD 83 NME)     | <b>MD Reference:</b>                | KB @ 3044.0usft              |
| <b>Site:</b>     | (Nailed It) Sec-36_T-26-S_R-30-E | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Nailed It Fed Com #207H          | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | OWB                              |                                     |                              |
| <b>Design:</b>   | Plan #1                          |                                     |                              |

|                    |                              |                      |                |
|--------------------|------------------------------|----------------------|----------------|
| <b>Project</b>     | Eddy County, NM (NAD 83 NME) |                      |                |
| <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      |                      |                |

|                              |                                  |                          |                   |
|------------------------------|----------------------------------|--------------------------|-------------------|
| <b>Site</b>                  | (Nailed It) Sec-36_T-26-S_R-30-E |                          |                   |
| <b>Site Position:</b>        |                                  | <b>Northing:</b>         | 364,471.00 usft   |
| <b>From:</b>                 | Map                              | <b>Easting:</b>          | 693,516.00 usft   |
| <b>Position Uncertainty:</b> | 0.0 usft                         | <b>Slot Radius:</b>      | 13-3/16 "         |
|                              |                                  | <b>Latitude:</b>         | 32° 0' 3.820 N    |
|                              |                                  | <b>Longitude:</b>        | 103° 50' 32.687 W |
|                              |                                  | <b>Grid Convergence:</b> | 0.26 °            |

|                             |                         |                            |                                  |
|-----------------------------|-------------------------|----------------------------|----------------------------------|
| <b>Well</b>                 | Nailed It Fed Com #207H |                            |                                  |
| <b>Well Position</b>        | <b>+N-S</b>             | -92.0 usft                 | <b>Northing:</b> 364,379.00 usft |
|                             | <b>+E-W</b>             | 1,586.0 usft               | <b>Easting:</b> 695,102.00 usft  |
| <b>Position Uncertainty</b> | 0.0 usft                | <b>Wellhead Elevation:</b> |                                  |
|                             |                         | <b>Latitude:</b>           | 32° 0' 2.838 N                   |
|                             |                         | <b>Longitude:</b>          | 103° 50' 14.274 W                |
|                             |                         | <b>Ground Level:</b>       | 3,018.0 usft                     |

|                  |                   |                      |                            |
|------------------|-------------------|----------------------|----------------------------|
| <b>Wellbore</b>  | OWB               |                      |                            |
| <b>Magnetics</b> | <b>Model Name</b> | <b>Sample Date</b>   | <b>Declination (°)</b>     |
|                  | IGRF2015          | 07/17/19             | 6.84                       |
|                  |                   | <b>Dip Angle (°)</b> | <b>Field Strength (nT)</b> |
|                  |                   | 59.79                | 47,567.10981355            |

|                          |                                |                    |                             |
|--------------------------|--------------------------------|--------------------|-----------------------------|
| <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>          |
|                          | 0.0                            | 0.0                | 0.0                         |
|                          |                                |                    | <b>Direction (°)</b> 359.68 |

|                                 |                        |                          |                     |                |
|---------------------------------|------------------------|--------------------------|---------------------|----------------|
| <b>Plan Survey Tool Program</b> | <b>Date</b>            | 07/18/19                 |                     |                |
| <b>Depth From (usft)</b>        | <b>Depth To (usft)</b> | <b>Survey (Wellbore)</b> | <b>Tool Name</b>    | <b>Remarks</b> |
| 1                               | 0.0                    | 15,217.2 Plan #1 (OWB)   | MWD                 |                |
|                                 |                        |                          | OWSG MWD - Standard |                |

|                              |                        |                    |                              |                    |                    |                                |                               |                              |                |                     |
|------------------------------|------------------------|--------------------|------------------------------|--------------------|--------------------|--------------------------------|-------------------------------|------------------------------|----------------|---------------------|
| <b>Plan Sections</b>         |                        |                    |                              |                    |                    |                                |                               |                              |                |                     |
| <b>Measured Depth (usft)</b> | <b>Inclination (°)</b> | <b>Azimuth (°)</b> | <b>Vertical Depth (usft)</b> | <b>+N-S (usft)</b> | <b>+E-W (usft)</b> | <b>Dogleg Rate (°/100usft)</b> | <b>Build Rate (°/100usft)</b> | <b>Turn Rate (°/100usft)</b> | <b>TFO (°)</b> | <b>Target</b>       |
| 0.0                          | 0.00                   | 0.00               | 0.0                          | 0.0                | 0.0                | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 2,000.0                      | 0.00                   | 0.00               | 2,000.0                      | 0.0                | 0.0                | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 2,350.2                      | 7.00                   | 101.54             | 2,349.4                      | -4.3               | 20.9               | 2.00                           | 2.00                          | 0.00                         | 101.54         |                     |
| 7,207.8                      | 7.00                   | 101.54             | 7,170.6                      | -122.8             | 601.3              | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 7,558.0                      | 0.00                   | 0.00               | 7,520.0                      | -127.1             | 622.3              | 2.00                           | -2.00                         | 0.00                         | 180.00         |                     |
| 10,380.0                     | 0.00                   | 0.00               | 10,342.0                     | -127.1             | 622.3              | 0.00                           | 0.00                          | 0.00                         | 0.00           |                     |
| 11,277.7                     | 89.77                  | 359.68             | 10,915.0                     | 443.6              | 619.1              | 10.00                          | 10.00                         | -0.04                        | 359.68         |                     |
| 15,217.2                     | 89.77                  | 359.68             | 10,931.0                     | 4,383.0            | 597.0              | 0.00                           | 0.00                          | 0.00                         | 0.00           | PBHL (Nailed It Fed |



# Intrepid Planning Report



|                  |                                  |                                     |                              |
|------------------|----------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db       | <b>Local Co-ordinate Reference:</b> | Well Nailed It Fed Com #207H |
| <b>Company:</b>  | Tap Rock Resources, LLC          | <b>TVD Reference:</b>               | KB @ 3044.0usft              |
| <b>Project:</b>  | Eddy County, NM (NAD 83 NME)     | <b>MD Reference:</b>                | KB @ 3044.0usft              |
| <b>Site:</b>     | (Nailed It) Sec-36_T-26-S_R-30-E | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Nailed It Fed Com #207H          | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | OWB                              |                                     |                              |
| <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                  |
| 833.0                      | 0.00            | 0.00        | 833.0                 | 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                  |
| 1,385.0                    | 0.00            | 0.00        | 1,385.0               | 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                  |
| 1,600.0                    | 0.00            | 0.00        | 1,600.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,700.0                    | 0.00            | 0.00        | 1,700.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,800.0                    | 0.00            | 0.00        | 1,800.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 1,900.0                    | 0.00            | 0.00        | 1,900.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| 2,000.0                    | 0.00            | 0.00        | 2,000.0               | 0.0          | 0.0          | 0.0                     | 0.00                    | 0.00                   | 0.00                  |
| NUDGE - Build 2.00         |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,100.0                    | 2.00            | 101.54      | 2,100.0               | -0.3         | 1.7          | -0.4                    | 2.00                    | 2.00                   | 0.00                  |
| 2,200.0                    | 4.00            | 101.54      | 2,199.8               | -1.4         | 6.8          | -1.4                    | 2.00                    | 2.00                   | 0.00                  |
| 2,300.0                    | 6.00            | 101.54      | 2,299.5               | -3.1         | 15.4         | -3.2                    | 2.00                    | 2.00                   | 0.00                  |
| 2,350.2                    | 7.00            | 101.54      | 2,349.4               | -4.3         | 20.9         | -4.4                    | 2.00                    | 2.00                   | 0.00                  |
| HOLD - 4857.5 at 2350.2 MD |                 |             |                       |              |              |                         |                         |                        |                       |
| 2,400.0                    | 7.00            | 101.54      | 2,398.8               | -5.5         | 26.9         | -5.6                    | 0.00                    | 0.00                   | 0.00                  |
| 2,500.0                    | 7.00            | 101.54      | 2,498.0               | -7.9         | 38.8         | -8.1                    | 0.00                    | 0.00                   | 0.00                  |
| 2,600.0                    | 7.00            | 101.54      | 2,597.3               | -10.4        | 50.8         | -10.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,700.0                    | 7.00            | 101.54      | 2,696.5               | -12.8        | 62.7         | -13.2                   | 0.00                    | 0.00                   | 0.00                  |
| 2,800.0                    | 7.00            | 101.54      | 2,795.8               | -15.2        | 74.7         | -15.7                   | 0.00                    | 0.00                   | 0.00                  |
| 2,900.0                    | 7.00            | 101.54      | 2,895.0               | -17.7        | 86.6         | -18.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,000.0                    | 7.00            | 101.54      | 2,994.3               | -20.1        | 98.6         | -20.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,100.0                    | 7.00            | 101.54      | 3,093.5               | -22.6        | 110.5        | -23.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,200.0                    | 7.00            | 101.54      | 3,192.8               | -25.0        | 122.5        | -25.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,300.0                    | 7.00            | 101.54      | 3,292.0               | -27.4        | 134.4        | -28.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,400.0                    | 7.00            | 101.54      | 3,391.3               | -29.9        | 146.4        | -30.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,433.0                    | 7.00            | 101.54      | 3,424.0               | -30.7        | 150.3        | -31.5                   | 0.00                    | 0.00                   | 0.00                  |
| Base Salt                  |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,500.0                    | 7.00            | 101.54      | 3,490.5               | -32.3        | 158.3        | -33.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,600.0                    | 7.00            | 101.54      | 3,589.8               | -34.8        | 170.3        | -35.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,632.4                    | 7.00            | 101.54      | 3,622.0               | -35.6        | 174.2        | -36.5                   | 0.00                    | 0.00                   | 0.00                  |
| Bell Canyon                |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,639.5                    | 7.00            | 101.54      | 3,629.0               | -35.7        | 175.0        | -36.7                   | 0.00                    | 0.00                   | 0.00                  |
| Delaware Mountain Gp       |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,644.5                    | 7.00            | 101.54      | 3,634.0               | -35.9        | 175.6        | -36.8                   | 0.00                    | 0.00                   | 0.00                  |
| Ramsey Sand                |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,646.5                    | 7.00            | 101.54      | 3,636.0               | -35.9        | 175.8        | -36.9                   | 0.00                    | 0.00                   | 0.00                  |



# Intrepid Planning Report



|                  |                                  |                                     |                              |
|------------------|----------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db       | <b>Local Co-ordinate Reference:</b> | Well Nailed It Fed Com #207H |
| <b>Company:</b>  | Tap Rock Resources, LLC          | <b>TVD Reference:</b>               | KB @ 3044.0usft              |
| <b>Project:</b>  | Eddy County, NM (NAD 83 NME)     | <b>MD Reference:</b>                | KB @ 3044.0usft              |
| <b>Site:</b>     | (Nailed It) Sec-36_T-26-S_R-30-E | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Nailed It Fed Com #207H          | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | OWB                              |                                     |                              |
| <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>Lamar</b>                      |                 |             |                       |              |              |                         |                         |                        |                       |
| 3,700.0                           | 7.00            | 101.54      | 3,689.1               | -37.2        | 182.2        | -38.2                   | 0.00                    | 0.00                   | 0.00                  |
| 3,800.0                           | 7.00            | 101.54      | 3,788.3               | -39.6        | 194.2        | -40.7                   | 0.00                    | 0.00                   | 0.00                  |
| 3,900.0                           | 7.00            | 101.54      | 3,887.6               | -42.1        | 206.1        | -43.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,000.0                           | 7.00            | 101.54      | 3,986.8               | -44.5        | 218.1        | -45.7                   | 0.00                    | 0.00                   | 0.00                  |
| 4,100.0                           | 7.00            | 101.54      | 4,086.1               | -47.0        | 230.0        | -48.2                   | 0.00                    | 0.00                   | 0.00                  |
| 4,200.0                           | 7.00            | 101.54      | 4,185.3               | -49.4        | 242.0        | -50.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,300.0                           | 7.00            | 101.54      | 4,284.6               | -51.8        | 253.9        | -53.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,400.0                           | 7.00            | 101.54      | 4,383.8               | -54.3        | 265.9        | -55.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,500.0                           | 7.00            | 101.54      | 4,483.1               | -56.7        | 277.8        | -58.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,600.0                           | 7.00            | 101.54      | 4,582.3               | -59.2        | 289.8        | -60.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,700.0                           | 7.00            | 101.54      | 4,681.6               | -61.6        | 301.7        | -63.3                   | 0.00                    | 0.00                   | 0.00                  |
| 4,800.0                           | 7.00            | 101.54      | 4,780.8               | -64.0        | 313.7        | -65.8                   | 0.00                    | 0.00                   | 0.00                  |
| 4,831.4                           | 7.00            | 101.54      | 4,812.0               | -64.8        | 317.4        | -66.6                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Cherry Canyon</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 4,900.0                           | 7.00            | 101.54      | 4,880.1               | -66.5        | 325.6        | -68.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,000.0                           | 7.00            | 101.54      | 4,979.4               | -68.9        | 337.6        | -70.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,100.0                           | 7.00            | 101.54      | 5,078.6               | -71.4        | 349.5        | -73.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,200.0                           | 7.00            | 101.54      | 5,177.9               | -73.8        | 361.4        | -75.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,300.0                           | 7.00            | 101.54      | 5,277.1               | -76.2        | 373.4        | -78.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,400.0                           | 7.00            | 101.54      | 5,376.4               | -78.7        | 385.3        | -80.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,500.0                           | 7.00            | 101.54      | 5,475.6               | -81.1        | 397.3        | -83.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,600.0                           | 7.00            | 101.54      | 5,574.9               | -83.6        | 409.2        | -85.8                   | 0.00                    | 0.00                   | 0.00                  |
| 5,700.0                           | 7.00            | 101.54      | 5,674.1               | -86.0        | 421.2        | -88.3                   | 0.00                    | 0.00                   | 0.00                  |
| 5,791.6                           | 7.00            | 101.54      | 5,765.0               | -88.2        | 432.1        | -90.6                   | 0.00                    | 0.00                   | 0.00                  |
| <b>Brushy Canyon</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 5,800.0                           | 7.00            | 101.54      | 5,773.4               | -88.4        | 433.1        | -90.9                   | 0.00                    | 0.00                   | 0.00                  |
| 5,900.0                           | 7.00            | 101.54      | 5,872.6               | -90.9        | 445.1        | -93.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,000.0                           | 7.00            | 101.54      | 5,971.9               | -93.3        | 457.0        | -95.9                   | 0.00                    | 0.00                   | 0.00                  |
| 6,100.0                           | 7.00            | 101.54      | 6,071.1               | -95.8        | 469.0        | -98.4                   | 0.00                    | 0.00                   | 0.00                  |
| 6,200.0                           | 7.00            | 101.54      | 6,170.4               | -98.2        | 480.9        | -100.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,300.0                           | 7.00            | 101.54      | 6,269.6               | -100.6       | 492.9        | -103.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,400.0                           | 7.00            | 101.54      | 6,368.9               | -103.1       | 504.8        | -105.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,500.0                           | 7.00            | 101.54      | 6,468.2               | -105.5       | 516.8        | -108.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,600.0                           | 7.00            | 101.54      | 6,567.4               | -107.9       | 528.7        | -110.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,700.0                           | 7.00            | 101.54      | 6,666.7               | -110.4       | 540.7        | -113.4                  | 0.00                    | 0.00                   | 0.00                  |
| 6,800.0                           | 7.00            | 101.54      | 6,765.9               | -112.8       | 552.6        | -115.9                  | 0.00                    | 0.00                   | 0.00                  |
| 6,900.0                           | 7.00            | 101.54      | 6,865.2               | -115.3       | 564.6        | -118.4                  | 0.00                    | 0.00                   | 0.00                  |
| 7,000.0                           | 7.00            | 101.54      | 6,964.4               | -117.7       | 576.5        | -120.9                  | 0.00                    | 0.00                   | 0.00                  |
| 7,100.0                           | 7.00            | 101.54      | 7,063.7               | -120.1       | 588.5        | -123.4                  | 0.00                    | 0.00                   | 0.00                  |
| 7,207.8                           | 7.00            | 101.54      | 7,170.6               | -122.8       | 601.3        | -126.1                  | 0.00                    | 0.00                   | 0.00                  |
| <b>DROP - -2.00</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,300.0                           | 5.16            | 101.54      | 7,262.4               | -124.7       | 610.9        | -128.1                  | 2.00                    | -2.00                  | 0.00                  |
| 7,400.0                           | 3.16            | 101.54      | 7,362.1               | -126.2       | 618.0        | -129.6                  | 2.00                    | -2.00                  | 0.00                  |
| 7,500.0                           | 1.16            | 101.54      | 7,462.0               | -126.9       | 621.7        | -130.4                  | 2.00                    | -2.00                  | 0.00                  |
| 7,552.0                           | 0.12            | 101.54      | 7,514.0               | -127.1       | 622.3        | -130.5                  | 2.00                    | -2.00                  | 0.00                  |
| <b>Bone Spring Lime</b>           |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,558.0                           | 0.00            | 0.00        | 7,520.0               | -127.1       | 622.3        | -130.5                  | 2.00                    | -2.00                  | 0.00                  |
| <b>HOLD - 2822.0 at 7558.0 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,600.0                           | 0.00            | 0.00        | 7,562.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,670.0                           | 0.00            | 0.00        | 7,632.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Upper Avalon</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 7,700.0                           | 0.00            | 0.00        | 7,662.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |



# Intrepid Planning Report



|                  |                                  |                                     |                              |
|------------------|----------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db       | <b>Local Co-ordinate Reference:</b> | Well Nailed It Fed Com #207H |
| <b>Company:</b>  | Tap Rock Resources, LLC          | <b>TVD Reference:</b>               | KB @ 3044.0usft              |
| <b>Project:</b>  | Eddy County, NM (NAD 83 NME)     | <b>MD Reference:</b>                | KB @ 3044.0usft              |
| <b>Site:</b>     | (Nailed It) Sec-36_T-26-S_R-30-E | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Nailed It Fed Com #207H          | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | OWB                              |                                     |                              |
| <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) |
| 7,800.0                           | 0.00            | 0.00        | 7,762.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 7,900.0                           | 0.00            | 0.00        | 7,862.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,000.0                           | 0.00            | 0.00        | 7,962.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,057.0                           | 0.00            | 0.00        | 8,019.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Middle Avalon</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,100.0                           | 0.00            | 0.00        | 8,062.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,200.0                           | 0.00            | 0.00        | 8,162.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,281.0                           | 0.00            | 0.00        | 8,243.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>Lower Avalon</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,300.0                           | 0.00            | 0.00        | 8,262.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,400.0                           | 0.00            | 0.00        | 8,362.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,497.0                           | 0.00            | 0.00        | 8,459.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>1st Bone Spring Sand</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,500.0                           | 0.00            | 0.00        | 8,462.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,600.0                           | 0.00            | 0.00        | 8,562.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,700.0                           | 0.00            | 0.00        | 8,662.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,800.0                           | 0.00            | 0.00        | 8,762.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 8,847.0                           | 0.00            | 0.00        | 8,809.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Carb</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 8,900.0                           | 0.00            | 0.00        | 8,862.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,000.0                           | 0.00            | 0.00        | 8,962.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,100.0                           | 0.00            | 0.00        | 9,062.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,132.0                           | 0.00            | 0.00        | 9,094.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>2nd Bone Spring Sand</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,200.0                           | 0.00            | 0.00        | 9,162.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,300.0                           | 0.00            | 0.00        | 9,262.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,400.0                           | 0.00            | 0.00        | 9,362.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,500.0                           | 0.00            | 0.00        | 9,462.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,600.0                           | 0.00            | 0.00        | 9,562.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,700.0                           | 0.00            | 0.00        | 9,662.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,731.0                           | 0.00            | 0.00        | 9,693.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>3rd Bone Spring Carb</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 9,800.0                           | 0.00            | 0.00        | 9,762.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 9,900.0                           | 0.00            | 0.00        | 9,862.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,000.0                          | 0.00            | 0.00        | 9,962.0               | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,100.0                          | 0.00            | 0.00        | 10,062.0              | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,200.0                          | 0.00            | 0.00        | 10,162.0              | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,300.0                          | 0.00            | 0.00        | 10,262.0              | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| 10,380.0                          | 0.00            | 0.00        | 10,342.0              | -127.1       | 622.3        | -130.5                  | 0.00                    | 0.00                   | 0.00                  |
| <b>KOP - DLS 10.00 TFO 359.68</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,399.0                          | 1.90            | 359.68      | 10,361.0              | -126.7       | 622.3        | -130.2                  | 10.00                   | 10.00                  | 0.00                  |
| <b>3rd Bone Spring Sand</b>       |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,400.0                          | 2.00            | 359.68      | 10,362.0              | -126.7       | 622.3        | -130.2                  | 10.00                   | 10.00                  | 0.00                  |
| 10,450.0                          | 7.00            | 359.68      | 10,411.8              | -122.8       | 622.3        | -126.3                  | 10.00                   | 10.00                  | 0.00                  |
| 10,500.0                          | 12.00           | 359.68      | 10,461.1              | -114.5       | 622.2        | -118.0                  | 10.00                   | 10.00                  | 0.00                  |
| 10,550.0                          | 17.00           | 359.68      | 10,509.5              | -102.0       | 622.1        | -105.5                  | 10.00                   | 10.00                  | 0.00                  |
| 10,600.0                          | 22.00           | 359.68      | 10,556.6              | -85.3        | 622.1        | -88.8                   | 10.00                   | 10.00                  | 0.00                  |
| 10,650.0                          | 27.00           | 359.68      | 10,602.1              | -64.6        | 621.9        | -68.1                   | 10.00                   | 10.00                  | 0.00                  |
| 10,700.0                          | 32.00           | 359.68      | 10,645.6              | -40.0        | 621.8        | -43.5                   | 10.00                   | 10.00                  | 0.00                  |
| 10,718.3                          | 33.83           | 359.68      | 10,661.0              | -30.0        | 621.7        | -33.5                   | 10.00                   | 10.00                  | 0.00                  |
| <b>3rd BS W Sand</b>              |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,750.0                          | 37.00           | 359.68      | 10,686.8              | -11.7        | 621.6        | -15.2                   | 10.00                   | 10.00                  | 0.00                  |
| 10,800.0                          | 42.00           | 359.68      | 10,725.4              | 20.1         | 621.5        | 16.6                    | 10.00                   | 10.00                  | 0.00                  |



**Intrepid**  
Planning Report



|                  |                                  |                                     |                              |
|------------------|----------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db       | <b>Local Co-ordinate Reference:</b> | Well Nailed It Fed Com #207H |
| <b>Company:</b>  | Tap Rock Resources, LLC          | <b>TVD Reference:</b>               | KB @ 3044.0usft              |
| <b>Project:</b>  | Eddy County, NM (NAD 83 NME)     | <b>MD Reference:</b>                | KB @ 3044.0usft              |
| <b>Site:</b>     | (Nailed It) Sec-36_T-26-S_R-30-E | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Nailed It Fed Com #207H          | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | OWB                              |                                     |                              |
| <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) |
| 10,836.9                               | 45.69           | 359.68      | 10,752.0              | 45.7         | 621.3        | 42.2                    | 10.00                   | 10.00                  | 0.00                  |
| <b>Wolfcamp A X Sand</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 10,850.0                               | 47.00           | 359.68      | 10,761.0              | 55.1         | 621.3        | 51.7                    | 10.00                   | 10.00                  | 0.00                  |
| 10,900.0                               | 52.00           | 359.68      | 10,793.5              | 93.2         | 621.1        | 89.7                    | 10.00                   | 10.00                  | 0.00                  |
| 10,950.0                               | 57.00           | 359.68      | 10,822.5              | 133.8        | 620.8        | 130.4                   | 10.00                   | 10.00                  | 0.00                  |
| 11,000.0                               | 62.00           | 359.68      | 10,847.9              | 176.9        | 620.6        | 173.4                   | 10.00                   | 10.00                  | 0.00                  |
| 11,050.0                               | 67.00           | 359.68      | 10,869.4              | 222.0        | 620.3        | 218.6                   | 10.00                   | 10.00                  | 0.00                  |
| 11,081.7                               | 70.17           | 359.68      | 10,881.0              | 251.6        | 620.2        | 248.1                   | 10.00                   | 10.00                  | 0.00                  |
| <b>Wolfcamp A Y Sand</b>               |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,100.0                               | 72.00           | 359.68      | 10,886.9              | 268.8        | 620.1        | 265.4                   | 10.00                   | 10.00                  | 0.00                  |
| 11,150.0                               | 77.00           | 359.68      | 10,900.3              | 317.0        | 619.8        | 313.5                   | 10.00                   | 10.00                  | 0.00                  |
| 11,200.0                               | 82.00           | 359.68      | 10,909.4              | 366.2        | 619.5        | 362.7                   | 10.00                   | 10.00                  | 0.00                  |
| 11,250.0                               | 87.00           | 359.68      | 10,914.2              | 415.9        | 619.2        | 412.4                   | 10.00                   | 10.00                  | 0.00                  |
| 11,277.7                               | 89.77           | 359.68      | 10,915.0              | 443.6        | 619.1        | 440.1                   | 10.00                   | 10.00                  | 0.00                  |
| <b>EOC - 3939.5 hold at 11277.7 MD</b> |                 |             |                       |              |              |                         |                         |                        |                       |
| 11,300.0                               | 89.77           | 359.68      | 10,915.0              | 465.9        | 619.0        | 462.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,400.0                               | 89.77           | 359.68      | 10,915.5              | 565.9        | 618.4        | 562.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,500.0                               | 89.77           | 359.68      | 10,915.9              | 665.9        | 617.8        | 662.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,600.0                               | 89.77           | 359.68      | 10,916.3              | 765.9        | 617.3        | 762.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,700.0                               | 89.77           | 359.68      | 10,916.7              | 865.9        | 616.7        | 862.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,800.0                               | 89.77           | 359.68      | 10,917.1              | 965.9        | 616.2        | 962.4                   | 0.00                    | 0.00                   | 0.00                  |
| 11,900.0                               | 89.77           | 359.68      | 10,917.5              | 1,065.9      | 615.6        | 1,062.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,000.0                               | 89.77           | 359.68      | 10,917.9              | 1,165.9      | 615.0        | 1,162.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,100.0                               | 89.77           | 359.68      | 10,918.3              | 1,265.9      | 614.5        | 1,262.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,200.0                               | 89.77           | 359.68      | 10,918.7              | 1,365.9      | 613.9        | 1,362.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,300.0                               | 89.77           | 359.68      | 10,919.1              | 1,465.9      | 613.4        | 1,462.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,400.0                               | 89.77           | 359.68      | 10,919.5              | 1,565.9      | 612.8        | 1,562.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,500.0                               | 89.77           | 359.68      | 10,919.9              | 1,665.9      | 612.2        | 1,662.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,600.0                               | 89.77           | 359.68      | 10,920.3              | 1,765.9      | 611.7        | 1,762.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,700.0                               | 89.77           | 359.68      | 10,920.7              | 1,865.9      | 611.1        | 1,862.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,800.0                               | 89.77           | 359.68      | 10,921.2              | 1,965.9      | 610.6        | 1,962.4                 | 0.00                    | 0.00                   | 0.00                  |
| 12,900.0                               | 89.77           | 359.68      | 10,921.6              | 2,065.9      | 610.0        | 2,062.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,000.0                               | 89.77           | 359.68      | 10,922.0              | 2,165.9      | 609.4        | 2,162.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,100.0                               | 89.77           | 359.68      | 10,922.4              | 2,265.9      | 608.9        | 2,262.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,200.0                               | 89.77           | 359.68      | 10,922.8              | 2,365.9      | 608.3        | 2,362.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,300.0                               | 89.77           | 359.68      | 10,923.2              | 2,465.9      | 607.8        | 2,462.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,400.0                               | 89.77           | 359.68      | 10,923.6              | 2,565.8      | 607.2        | 2,562.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,500.0                               | 89.77           | 359.68      | 10,924.0              | 2,665.8      | 606.6        | 2,662.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,600.0                               | 89.77           | 359.68      | 10,924.4              | 2,765.8      | 606.1        | 2,762.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,700.0                               | 89.77           | 359.68      | 10,924.8              | 2,865.8      | 605.5        | 2,862.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,800.0                               | 89.77           | 359.68      | 10,925.2              | 2,965.8      | 604.9        | 2,962.4                 | 0.00                    | 0.00                   | 0.00                  |
| 13,900.0                               | 89.77           | 359.68      | 10,925.6              | 3,065.8      | 604.4        | 3,062.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,000.0                               | 89.77           | 359.68      | 10,926.0              | 3,165.8      | 603.8        | 3,162.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,100.0                               | 89.77           | 359.68      | 10,926.4              | 3,265.8      | 603.3        | 3,262.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,200.0                               | 89.77           | 359.68      | 10,926.9              | 3,365.8      | 602.7        | 3,362.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,300.0                               | 89.77           | 359.68      | 10,927.3              | 3,465.8      | 602.1        | 3,462.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,400.0                               | 89.77           | 359.68      | 10,927.7              | 3,565.8      | 601.6        | 3,562.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,500.0                               | 89.77           | 359.68      | 10,928.1              | 3,665.8      | 601.0        | 3,662.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,600.0                               | 89.77           | 359.68      | 10,928.5              | 3,765.8      | 600.5        | 3,762.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,700.0                               | 89.77           | 359.68      | 10,928.9              | 3,865.8      | 599.9        | 3,862.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,800.0                               | 89.77           | 359.68      | 10,929.3              | 3,965.8      | 599.3        | 3,962.4                 | 0.00                    | 0.00                   | 0.00                  |
| 14,900.0                               | 89.77           | 359.68      | 10,929.7              | 4,065.8      | 598.8        | 4,062.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,000.0                               | 89.77           | 359.68      | 10,930.1              | 4,165.8      | 598.2        | 4,162.4                 | 0.00                    | 0.00                   | 0.00                  |



Intrepid  
Planning Report



|           |                                  |                              |                              |
|-----------|----------------------------------|------------------------------|------------------------------|
| Database: | EDM 5000.15 Single User Db       | Local Co-ordinate Reference: | Well Nailed It Fed Com #207H |
| Company:  | Tap Rock Resources, LLC          | TVD Reference:               | KB @ 3044.0usft              |
| Project:  | Eddy County, NM (NAD 83 NME)     | MD Reference:                | KB @ 3044.0usft              |
| Site:     | (Nailed It) Sec-36_T-26-S_R-30-E | North Reference:             | Grid                         |
| Well:     | Nailed It Fed Com #207H          | Survey Calculation Method:   | Minimum Curvature            |
| Wellbore: | OWB                              |                              |                              |
| Design:   | Plan #1                          |                              |                              |

| Planned Survey        |                 |             |                       |              |              |                         |                         |                        |                       |
|-----------------------|-----------------|-------------|-----------------------|--------------|--------------|-------------------------|-------------------------|------------------------|-----------------------|
| Measured Depth (usft) | Inclination (°) | Azimuth (°) | Vertical Depth (usft) | +N/-S (usft) | +E/-W (usft) | Vertical Section (usft) | Dogleg Rate (°/100usft) | Build Rate (°/100usft) | Turn Rate (°/100usft) |
| 15,100.0              | 89.77           | 359.68      | 10,930.5              | 4,265.8      | 597.7        | 4,262.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,200.0              | 89.77           | 359.68      | 10,930.9              | 4,365.8      | 597.1        | 4,362.4                 | 0.00                    | 0.00                   | 0.00                  |
| 15,217.2              | 89.77           | 359.68      | 10,931.0              | 4,383.0      | 597.0        | 4,379.6                 | 0.00                    | 0.00                   | 0.00                  |
| TD at 15217.2         |                 |             |                       |              |              |                         |                         |                        |                       |

| Design Targets                            |   |               |              |            |              |              |                 |                |                                  |
|---|---|---------------|--------------|------------|--------------|--------------|-----------------|----------------|----------------------------------|
| Target Name                               | - hit/miss target   | Dip Angle (°) | Dip Dir. (°) | TVD (usft) | +N/-S (usft) | +E/-W (usft) | Northing (usft) | Easting (usft) | Latitude Longitude               |
| FTP (Nailed It Fed Co                     | - plan misses target center by 94.8usft at 10970.4usft MD (10833.3 TVD, 151.1 N, 620.7 E) | 0.00          | 0.00         | 10,915.0   | 103.0        | 621.0        | 364,482.00      | 695,723.00     | 32° 0' 3.829 N 103° 50' 7.056 W  |
| - Point                                   |   |               |              |            |              |              |                 |                |                                  |
| PBHL (Nailed It Fed C                     | - plan hits target center   | 0.23          | 359.68       | 10,931.0   | 4,383.0      | 597.0        | 368,762.00      | 695,699.00     | 32° 0' 46.185 N 103° 50' 7.106 W |
| - Rectangle (sides W100.0 H4,281.0 D40.0) |   |               |              |            |              |              |                 |                |                                  |
| LTP (Nailed It Fed Co                     | - plan misses target center by 0.6usft at 15087.2usft MD (10930.5 TVD, 4253.0 N, 597.7 E) | 0.00          | 0.01         | 10,931.0   | 4,253.0      | 598.0        | 368,632.00      | 695,700.00     | 32° 0' 44.898 N 103° 50' 7.101 W |
| - Point                                   |   |               |              |            |              |              |                 |                |                                  |

| Formations            |                       |                      |           |         |                   |
|-----------------------|-----------------------|----------------------|-----------|---------|-------------------|
| Measured Depth (usft) | Vertical Depth (usft) | Name                 | Lithology | Dip (°) | Dip Direction (°) |
| 833.0                 | 833.0                 | Rustler Anhydrite    |           |         |                   |
| 1,385.0               | 1,385.0               | Top Salt             |           |         |                   |
| 3,433.0               | 3,424.0               | Base Salt            |           |         |                   |
| 3,632.4               | 3,622.0               | Bell Canyon          |           |         |                   |
| 3,639.5               | 3,629.0               | Delaware Mountain Gp |           |         |                   |
| 3,644.5               | 3,634.0               | Ramsey Sand          |           |         |                   |
| 3,646.5               | 3,636.0               | Lamar                |           |         |                   |
| 4,831.4               | 4,812.0               | Cherry Canyon        |           |         |                   |
| 5,791.6               | 5,765.0               | Brushy Canyon        |           |         |                   |
| 7,552.0               | 7,514.0               | Bone Spring Lime     |           |         |                   |
| 7,670.0               | 7,632.0               | Upper Avalon         |           |         |                   |
| 8,057.0               | 8,019.0               | Middle Avalon        |           |         |                   |
| 8,281.0               | 8,243.0               | Lower Avalon         |           |         |                   |
| 8,497.0               | 8,459.0               | 1st Bone Spring Sand |           |         |                   |
| 8,847.0               | 8,809.0               | 2nd Bone Spring Carb |           |         |                   |
| 9,132.0               | 9,094.0               | 2nd Bone Spring Sand |           |         |                   |
| 9,731.0               | 9,693.0               | 3rd Bone Spring Carb |           |         |                   |
| 10,399.0              | 10,361.0              | 3rd Bone Spring Sand |           |         |                   |
| 10,718.3              | 10,661.0              | 3rd BS W Sand        |           |         |                   |
| 10,836.9              | 10,752.0              | Wolfcamp A X Sand    |           |         |                   |
| 11,081.7              | 10,881.0              | Wolfcamp A Y Sand    |           |         |                   |





**Intrepid**  
Planning Report



|                  |                                  |                                     |                              |
|------------------|----------------------------------|-------------------------------------|------------------------------|
| <b>Database:</b> | EDM 5000.15 Single User Db       | <b>Local Co-ordinate Reference:</b> | Well Nailed It Fed Com #207H |
| <b>Company:</b>  | Tap Rock Resources, LLC          | <b>TVD Reference:</b>               | KB @ 3044.0usft              |
| <b>Project:</b>  | Eddy County, NM (NAD 83 NME)     | <b>MD Reference:</b>                | KB @ 3044.0usft              |
| <b>Site:</b>     | (Nailed It) Sec-36_T-26-S_R-30-E | <b>North Reference:</b>             | Grid                         |
| <b>Well:</b>     | Nailed It Fed Com #207H          | <b>Survey Calculation Method:</b>   | Minimum Curvature            |
| <b>Wellbore:</b> | OWB                              |                                     |                              |
| <b>Design:</b>   | Plan #1                          |                                     |                              |

**Plan Annotations**

| Measured<br>Depth<br>(usft) | Vertical<br>Depth<br>(usft) | Local Coordinates |                 | Comment                         |
|-----------------------------|-----------------------------|-------------------|-----------------|---------------------------------|
|                             |                             | +N/-S<br>(usft)   | +E/-W<br>(usft) |                                 |
| 2,000.0                     | 2,000.0                     | 0.0               | 0.0             | NUDGE - Build 2.00              |
| 2,350.2                     | 2,349.4                     | -4.3              | 20.9            | HOLD - 4857.5 at 2350.2 MD      |
| 7,207.8                     | 7,170.6                     | -122.8            | 601.3           | DROP - -2.00                    |
| 7,558.0                     | 7,520.0                     | -127.1            | 622.3           | HOLD - 2822.0 at 7558.0 MD      |
| 10,380.0                    | 10,342.0                    | -127.1            | 622.3           | KOP - DLS 10.00 TFO 359.68      |
| 11,277.7                    | 10,915.0                    | 443.6             | 619.1           | EOC - 3939.5 hold at 11277.7 MD |
| 15,217.2                    | 10,931.0                    | 4,383.0           | 597.0           | TD at 15217.2                   |



Drilling Operations Plan  
Nailed It Fed Com #207H  
Tap Rock Operating, LLC  
SHL 230' FSL & 1865' FWL, Sec. 36  
BHL 2465' FSL & 2486' FWL, Sec. 25  
T. 26S., R. 30E Eddy County, NM

Elevation above Sea Level: 3018'

## **DRILLING PROGRAM**

### **1. Estimated Tops**

| Formation           | TVD   | MD    | Lithologies | Bearing      |
|---------------------|-------|-------|-------------|--------------|
| Quaternary Deposits | 0     | 0     | Surface     | None         |
| Rustler Anhydrite   | 833   | 831   |             | Salt         |
| Salado              | 1385  | 1383  | Salt        | Salt         |
| Base Salt           | 3424  | 3422  |             | Salt         |
| Lamar               | 3636  | 3634  | Limestone   | None         |
| Bell Canyon         | 3655  | 3610  | Sandstone   | Hydrocarbons |
| Cherry Canyon       | 4812  | 4874  | Sandstone   | Hydrocarbons |
| Brushy Canyon       | 5765  | 5839  | Sandstone   | Hydrocarbons |
| Bone Spring         | 7514  | 7610  | Limestone   | Hydrocarbons |
| 1st Bone Spring     | 8459  | 8559  | Sandstone   | Hydrocarbons |
| 2nd Bone Spring     | 8809  | 8909  | Sandstone   | Hydrocarbons |
| 3rd Bone Spring     | 9693  | 9793  | Sandstone   | Hydrocarbons |
| KOP                 | 10342 | 10380 | Sandstone   | Hydrocarbons |
| Wolfcamp            | 10752 | 10898 | Shale       | Hydrocarbons |
| TD                  | 10931 | 15220 | Shale       | Hydrocarbons |

### **2. Notable Zones**

Upper Wolfcamp 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.



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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:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, 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 2<sup>nd</sup> intermediate hole sections and cementing 2<sup>nd</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 a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.

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.



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#### 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      | 920       | 0       | 920     | J-55  | 54.5   | BUTT   | 1.13     | 1.15  | 1.6     |
| 1st Intermediate | 12 1/4    | 9 5/8       | API      | No      | 0      | 3700      | 0       | 3689    | J-55  | 40     | BUTT   | 1.13     | 1.15  | 1.6     |
| 2nd Intermediate | 8 3/4     | 7 5/8       | API      | No      | 0      | 3400      | 0       | 3389    | P-110 | 29.7   | BUTT   | 1.13     | 1.15  | 1.6     |
| 2nd Intermediate | 8 3/4     | 7 5/8       | NON API  | Yes     | 3400   | 10380     | 3389    | 10342   | P-110 | 29.7   | W-513  | 1.13     | 1.15  | 1.6     |
| Production       | 6 3/4     | 5 1/2       | NON API  | No      | 0      | 10180     | 0       | 10142   | P-110 | 20     | TXP    | 1.13     | 1.15  | 1.6     |
| Production       | 6 3/4     | 5           | NON API  | Yes     | 10180  | 15220     | 10142   | 10931   | P-110 | 18     | W-521  | 1.13     | 1.15  | 1.6     |

| Name             | Type | Top MD | Sacks | Yield | Cu. Ft | Weight | Excess | Cement | Additives                                |
|------------------|------|--------|-------|-------|--------|--------|--------|--------|--|
| Surface          | Lead | 0      | 462   | 1.8   | 831    | 13.5   | 100%   | C      | None                                     |
|                  | Tail | 598    | 331   | 1.35  | 447    | 14.8   | 100%   | C      | 5% NCI + LCM                             |
| 1st Intermediate | Lead | 0      | 702   | 2.18  | 1529   | 12.7   | 65%    | C      | Bentonite + 1% CaCL2 + 8% NaCl + LCM     |
|                  | Tail | 2960   | 287   | 1.33  | 382    | 14.8   | 65%    | C      | 5% NaCl + LCM                            |
| 2nd Intermediate | Lead | 3400   | 283   | 2.87  | 811    | 11.5   | 35%    | TXI    | Fluid Loss + Dispersant + Retarder + LCM |
|                  | Tail | 9380   | 107   | 1.27  | 136    | 15     | 35%    | H      | Fluid Loss + Dispersant + Retarder + LCM |
| Production       | Tail | 9680   | 454   | 1.71  | 777    | 14.2   | 25%    | H      | Fluid Loss + Dispersant + Retarder + LCM |

#### 5. Mud Program

| Name           | Top   | Bottom | Type         | Mud Weight | Visc  | Fluid Loss |
|----------------|-------|--------|--------------|------------|-------|------------|
| Surface        | 0     | 920    | FW Spud Mud  | 8.30       | 28    | NC         |
| Intermediate   | 920   | 3700   | Brine Water  | 10.00      | 30-32 | NC         |
| Intermediate 2 | 3700  | 10380  | FW/Cut Brine | 9.00       | 30-32 | NC         |
| Production     | 10380 | 15220  | Oil Base Mud | 11.50      | 15-20 | <10        |

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.



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**7. Down Hole Conditions**

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is  $\approx 6,530$  psi. Expected bottom hole temperature is  $\approx 160^\circ$  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 Information**

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 #207H

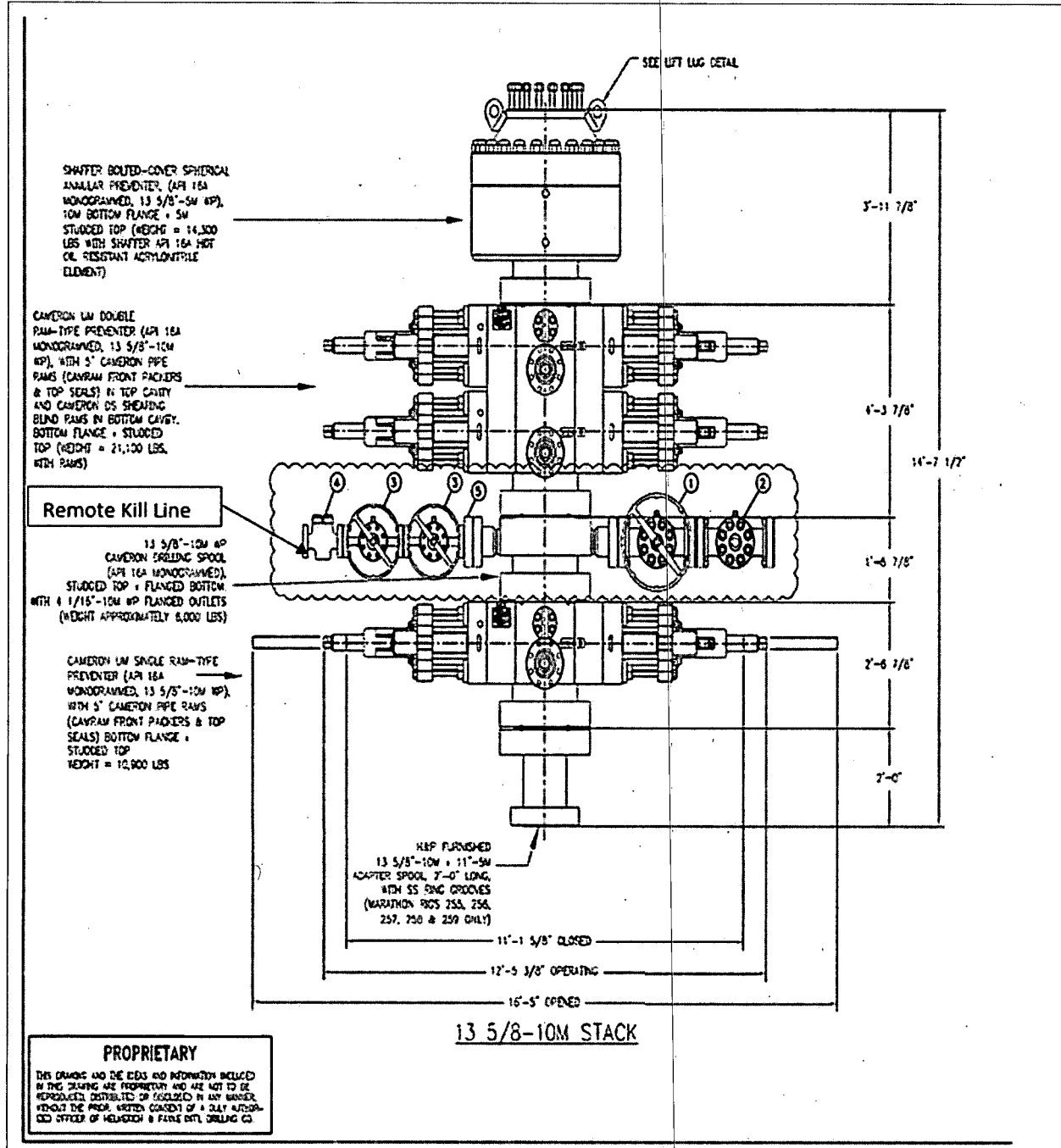
Tap Rock Operating, LLC

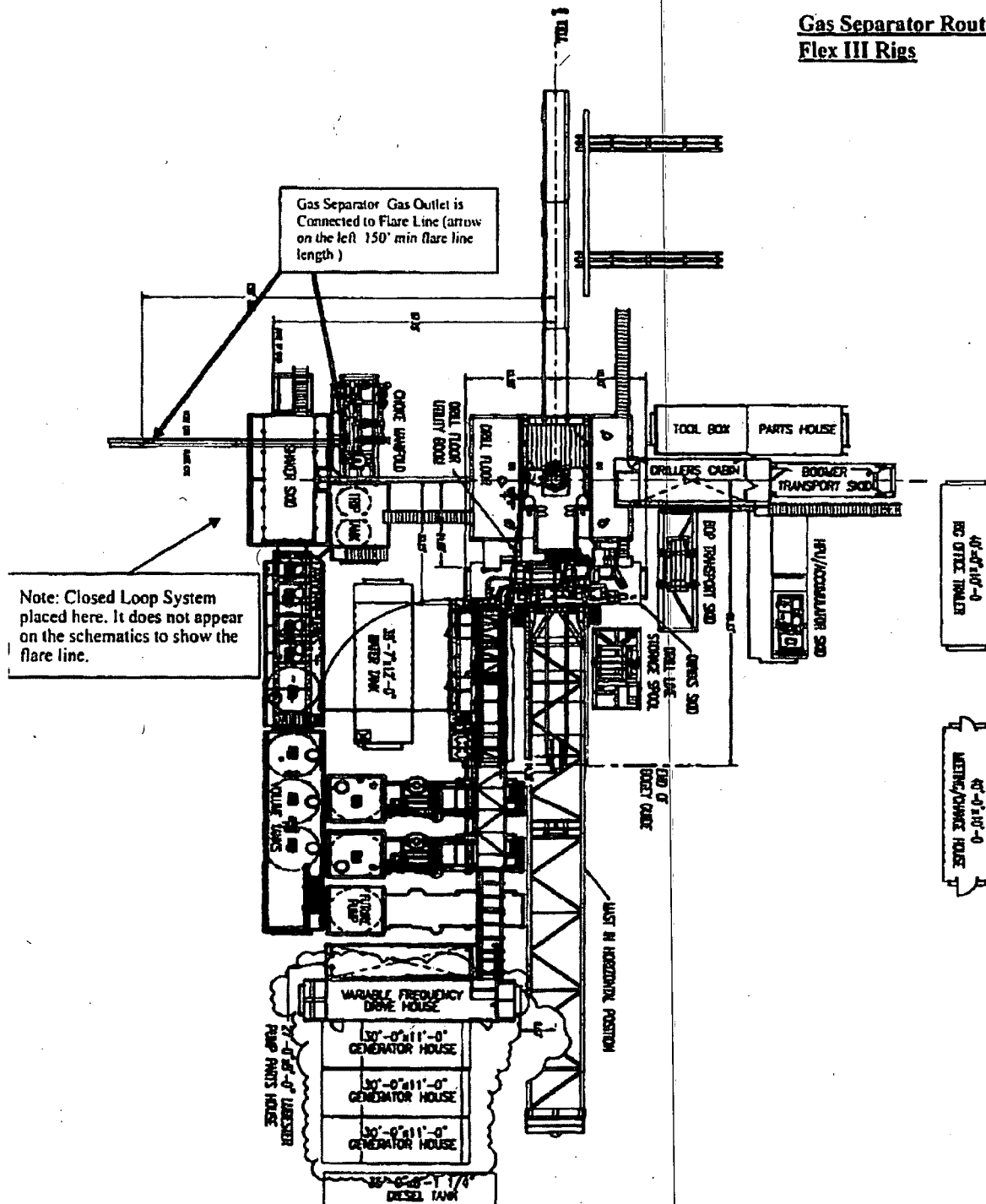
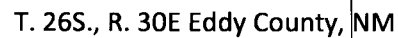
SHL 230' FSL & 1865' FWL, Sec. 36

BHL 2465' FSL & 2486' FWL, Sec. 25

T. 26S., R. 30E Eddy County, NM

## 5,000 psi BOP Stack

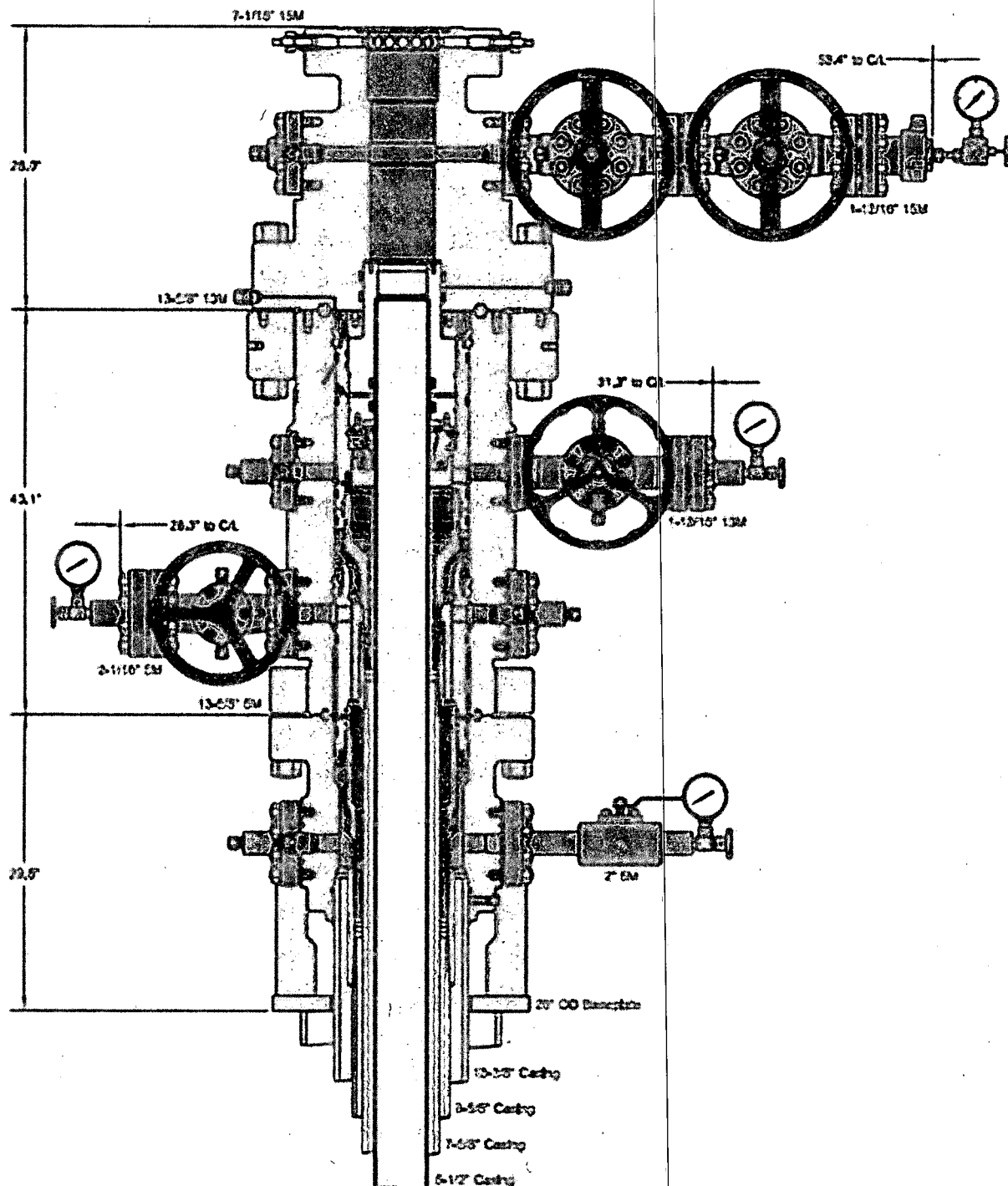






Drilling Operations Plan  
Nailed It Fed Com #207H  
Tap Rock Operating, LLC  
SHL 230' FSL & 1865' FWL, Sec. 36  
BHL 2465' FSL & 2486' FWL, Sec. 25  
T. 26S., R. 30E Eddy County, NM

### Multi-bowl Wellhead

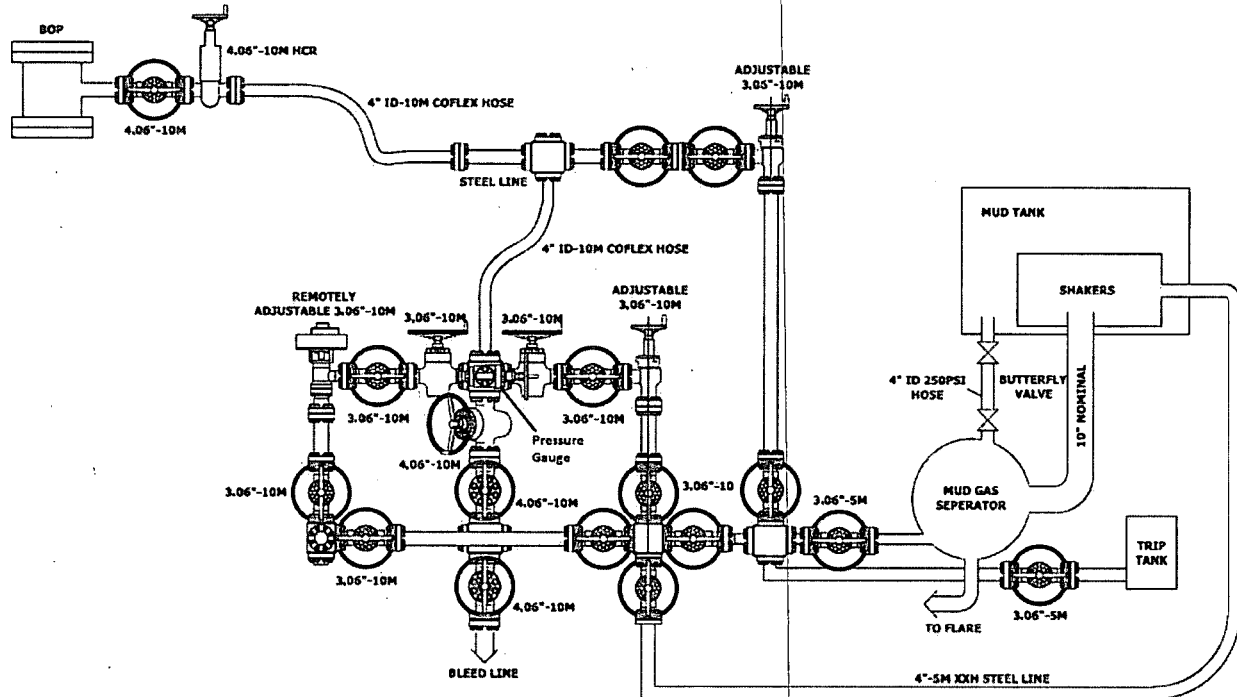




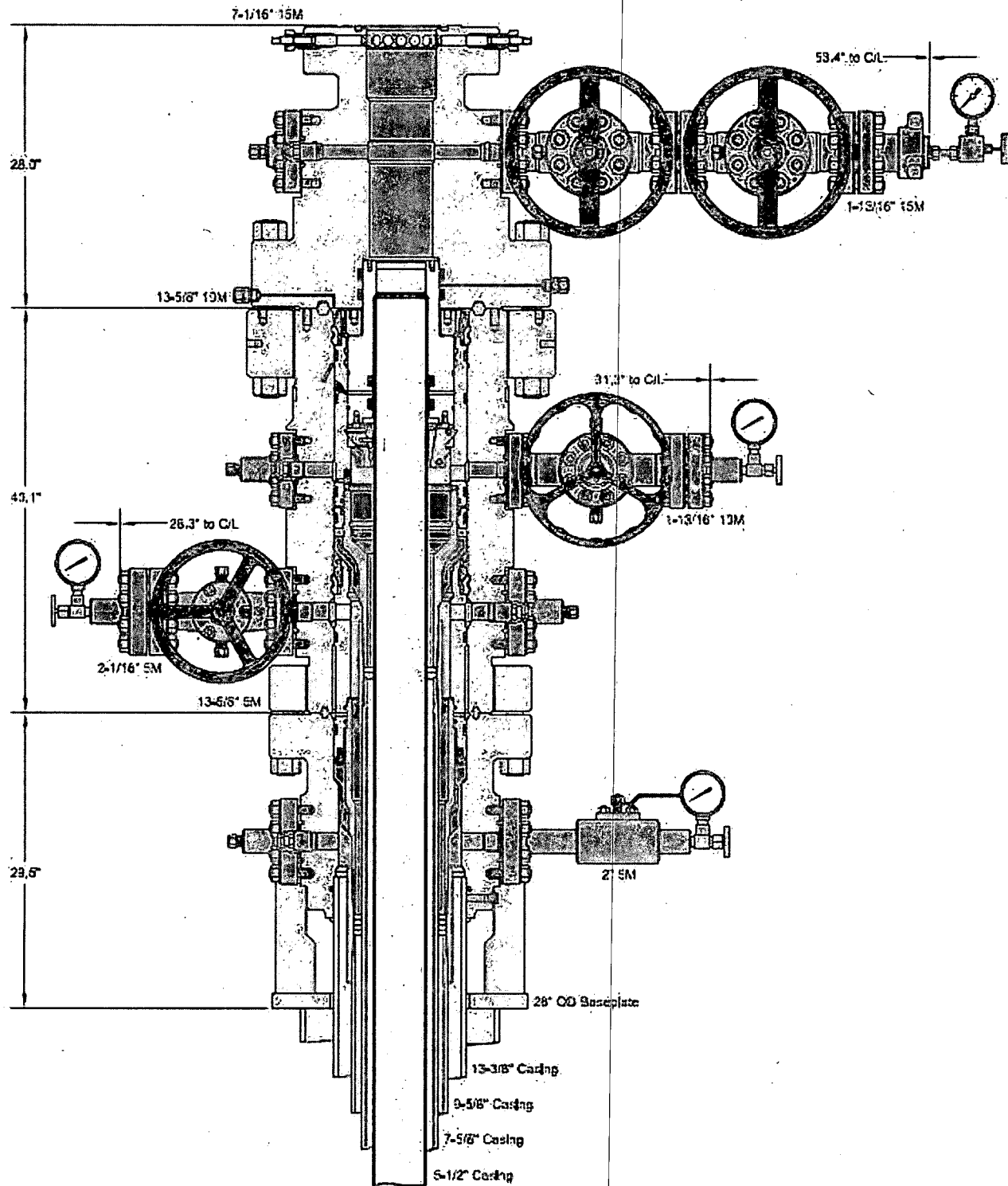


Drilling Operations Plan  
Nailed It Fed Com #207H  
Tap Rock Operating, LLC  
SHL 230' FSL & 1865' FWL, Sec. 36  
BHL 2465' FSL & 2486' FWL, Sec. 25  
T. 26S., R. 30E Eddy County, NM

10M Choke Layout



## Multi-bowl Wellhead





APD ID: 10400046731

Submission Date: 08/30/2019

Highlighted data  
reflects the most  
recent changes

Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

[Show Final Text](#)

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

### Section 1 - Existing Roads

Will existing roads be used? YES

Existing Road Map:

Nailed\_Existing\_Roads\_Map\_012220\_20200123083545.pdf

Existing Road Purpose: ACCESS

Row(s) Exist? NO

ROW ID(s)

ID:

Do the existing roads need to be improved? NO

Existing Road Improvement Description:

Existing Road Improvement Attachment:

### Section 2 - New or Reconstructed Access Roads

Will new roads be needed? YES

New Road Map:

Nailed\_New\_Roads\_Map\_Plats\_011720\_20200123083614.pdf

New road type: LOCAL

Length: 4553.52

Feet

Width (ft.): 30

Max slope (%): 0

Max grade (%): 1

Army Corp of Engineers (ACOE) permit required? N

ACOE Permit Number(s):

New road travel width: 24

New road access erosion control: Crowned and ditched

New road access plan or profile prepared? N

New road access plan attachment:

Access road engineering design? N

Access road engineering design attachment:

|  |                          |
|--|--------------------------|
| <b>Operator Name:</b> TAP ROCK OPERATING LLC |                          |
| <b>Well Name:</b> NAILED IT FED COM          | <b>Well Number:</b> 207H |

**Turnout?** N

**Access surfacing type:** OTHER

**Access topsoil source:** ONSITE

**Access surfacing type description:** Caliche

**Access onsite topsoil source depth:** 6

**Offsite topsoil source description:**

**Onsite topsoil removal process:** Grader

**Access other construction information:** Pipelines that are crossed will be padded.

**Access miscellaneous information:**

**Number of access turnouts:**                      **Access turnout map:**

Drainage Control

**New road drainage crossing:** OTHER

**Drainage Control comments:** Crowned and ditched

**Road Drainage Control Structures (DCS) description:** None

**Road Drainage Control Structures (DCS) attachment:**

Access Additional Attachments

Section 3 - Location of Existing Wells

**Existing Wells Map?** YES

**Attach Well map:**

Nailed\_Slot2\_well\_Map\_v1\_082119\_20200123083751.pdf

Section 4 - Location of Existing and/or Proposed Production Facilities

**Submit or defer a Proposed Production Facilities plan?** SUBMIT

**Production Facilities description:** Production facilities will be located off-pad, on separate central tank battery (CTB) sites. The W2 Facility will service the W2W2 and E2W2 well pads while the E2 Facility will service the W2E2 and E2E2 well pads. The W2 facility (400 x 400) will be built 30 north of the W2W2 well pad. Topsoil will be piled north of the CTB. Flare and/or CBU will be set on the northwest corner while the tank battery and process equipment (e.g. separators, heater-treaters) will be on the east side of the CTB. The E2 facility (400 x 400) will be built 60 north of the E2E2 well pad. Topsoil will be piled north of the CTB. Flare and/or CBU will be set on the northeast corner while the tank battery and process equipment (e.g. separators, heater-treaters) will be on the west side of the CTB. Tap Rock will install 2,989.44 of 4 buried steel flowlines from the well pads to the two (2) CTBs. There is no powerline planned at this time.

**Production Facilities map:**

Nailed\_Production\_Facilities\_011720\_20200123083813.pdf

|                                       |                   |
|---------------------------------------|-------------------|
| Operator Name: TAP ROCK OPERATING LLC |                   |
| Well Name: NAILED IT FED COM          | Well Number: 207H |

Section 5 - Location and Types of Water Supply

Water Source Table

|   |   |
|---|---|
| Water source type: GW WELL                    |   |
| Water source use type:                        | SURFACE CASING<br>STIMULATION<br>DUST CONTROL<br>INTERMEDIATE/PRODUCTION CASING |
| Source latitude:                              | Source longitude:   |
| Source datum:                                 |   |
| Water source permit type:                     | WATER WELL  |
| Water source transport method:                | TRUCKING  |
| Source land ownership: PRIVATE                |   |
| Source transportation land ownership: PRIVATE |   |
| Water source volume (barrels): 16000          | Source volume (acre-feet): 2.06228954   |
| Source volume (gal): 672000                   |   |

Water source and transportation map:  
Nailed\_H2O\_Source\_Map\_20200123083903.pdf

Water source comments:  
New water well? N

New Water Well Info

|                                     |                                    |             |
|-------------------------------------|------------------------------------|-------------|
| Well latitude:                      | Well Longitude:                    | Well datum: |
| Well target aquifer:                |                                    |             |
| Est. depth to top of aquifer(ft):   | Est thickness of aquifer:          |             |
| Aquifer comments:                   |                                    |             |
| Aquifer documentation:              |                                    |             |
| Well depth (ft):                    | Well casing type:                  |             |
| Well casing outside diameter (in.): | Well casing inside diameter (in.): |             |
| New water well casing?              | Used casing source:                |             |

|                                       |                   |
|---------------------------------------|-------------------|
| Operator Name: TAP ROCK OPERATING LLC |                   |
| Well Name: NAILED IT FED COM          | Well Number: 207H |

|                                    |                         |
|------------------------------------|-------------------------|
| Drilling method:                   | Drill material:         |
| Grout material:                    | Grout depth:            |
| Casing length (ft.):               | Casing top depth (ft.): |
| Well Production type:              | Completion Method:      |
| Water well additional information: |                         |
| State appropriation permit:        |                         |
| Additional information attachment: |                         |

Section 6 - Construction Materials

Using any construction materials: YES

**Construction Materials description:** NM One Call (811) will be notified before construction starts. Top 6 of soil and brush will be stockpiled on a side of the well pads. Closed loop mud system will be used. Caliche will be hauled from existing caliche pits on private land in SENW Section 12, Texas & Pacific Railroad Block 57, Loving County, Texas.

**Construction Materials source location attachment:**

Nailed\_Construction\_Materials\_20200123083931.pdf

Section 7 - Methods for Handling Waste

**Waste type:** DRILLING

**Waste content description:** Drill cuttings, mud, salts, and other chemicals

**Amount of waste:** 550                      barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Steel mud tanks

**Safe containmant attachment:**

**Waste disposal type:** HAUL TO COMMERCIAL      **Disposal location ownership:** PRIVATE FACILITY

**Disposal type description:** Fee Fee Fed - SUPO not required

**Disposal location description:** Mud tanks will be hauled to a state approved disposal site, e. g., Petro Waste Environmental LP at Orla, Texas. (Texas Railroad Commission permit number STF-0101, P012234, P012236.)

**Waste type:** SEWAGE

**Waste content description:** Black and grey water

**Amount of waste:** 5                      barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Plastic holding tanks and chemical toilets

**Safe containmant attachment:**

**Waste disposal type:** OTHER                      **Disposal location ownership:** OTHER

**Disposal type description:** Public

|  |                          |
|--|--------------------------|
| <b>Operator Name:</b> TAP ROCK OPERATING LLC |                          |
| <b>Well Name:</b> NAILED IT FED COM          | <b>Well Number:</b> 207H |

**Disposal location description:** Carlsbad wastewater treatment plant

**Waste type:** GARBAGE

**Waste content description:** Trash

**Amount of waste:** 10 barrels

**Waste disposal frequency :** Daily

**Safe containment description:** Portable trash cage

**Safe containmant attachment:**

**Waste disposal type:** OTHER **Disposal location ownership:** OTHER

**Disposal type description:** Public

**Disposal location description:** Eddy County landfill

Reserve Pit

**Reserve Pit being used?** NO

**Temporary disposal of produced water into reserve pit?** NO

**Reserve pit length (ft.)** **Reserve pit width (ft.)**

**Reserve pit depth (ft.)** **Reserve pit volume (cu. yd.)**

**Is at least 50% of the reserve pit in cut?**

**Reserve pit liner**

**Reserve pit liner specifications and installation description**

Cuttings Area

**Cuttings Area being used?** NO

**Are you storing cuttings on location?** Y

**Description of cuttings location** Steel tanks on pad

**Cuttings area length (ft.)** **Cuttings area width (ft.)**

**Cuttings area depth (ft.)** **Cuttings area volume (cu. yd.)**

**Is at least 50% of the cuttings area in cut?**

**WCuttings area liner**

**Cuttings area liner specifications and installation description**

Section 8 - Ancillary Facilities

Are you requesting any Ancillary Facilities?: N

Ancillary Facilities attachment:

Comments:

Section 9 - Well Site Layout

Well Site Layout Diagram:

Nailed\_Slot2\_Well\_Site\_Layout\_101119\_20200123084233.pdf

Comments:

Section 10 - Plans for Surface Reclamation

Type of disturbance: New Surface Disturbance

Multiple Well Pad Name: Nailed It Fed Com

Multiple Well Pad Number: Slot 2

Recontouring attachment:

Nailed\_Slot2\_Interim\_Rec\_010320\_20200123084246.pdf

Nailed\_Recontour\_plats\_All\_Pads\_20200123084304.pdf

Drainage/Erosion control construction: Crowned and ditched

Drainage/Erosion control reclamation: Harrowed on the contour

|  |   |   |
|--|---|---|
| Well pad proposed disturbance (acres): 19.28 | Well pad interim reclamation (acres): 1.84    | Well pad long term disturbance (acres): 17.44   |
| Road proposed disturbance (acres): 3.14      | Road interim reclamation (acres): 0           | Road long term disturbance (acres): 3.14        |
| Powerline proposed disturbance (acres): 0    | Powerline interim reclamation (acres): 0      | Powerline long term disturbance (acres): 0      |
| Pipeline proposed disturbance (acres): 2.06  | Pipeline interim reclamation (acres): 2.06    | Pipeline long term disturbance (acres): 0       |
| Other proposed disturbance (acres): 8.08     | Other interim reclamation (acres): 0          | Other long term disturbance (acres): 8.08       |
| Total proposed disturbance: 32.56            | Total interim reclamation: 3.9000000000000004 | Total long term disturbance: 28.660000000000004 |

Disturbance Comments:

**Reconstruction method:** Interim reclamation will be completed within 6 months of completing the last well on the pad. Interim reclamation will consist of shrinking the 4 well pads by removing caliche and reclaiming portions of each pad. Disturbed areas will be contoured to match pre-construction grades.

**Topsoil redistribution:** Soil and brush will be evenly spread over disturbed areas and harrowed on the contour. Disturbed areas will be seeded in accordance with the landowners requirements. Stockpiled topsoil will be retained on one edge of each well pad. This soil will be used to cover the remainder of the pads when the wells are plugged and the pads reclaimed. Once the last well is plugged, the rest of the pad and associated roads will be similarly reclaimed within 6 months of plugging. Noxious weeds will be controlled.



Operator Name: TAP ROCK OPERATING LLC

Well Name: NAILED IT FED COM

Well Number: 207H

Soil treatment: None

Existing Vegetation at the well pad: Mesquite and/or Creosote bush

Existing Vegetation at the well pad attachment:

Existing Vegetation Community at the road: Mesquite and/or Creosote bush

Existing Vegetation Community at the road attachment:

Existing Vegetation Community at the pipeline: Mesquite and/or Creosote bush

Existing Vegetation Community at the pipeline attachment:

Existing Vegetation Community at other disturbances: Mesquite and/or Creosote bush

Existing Vegetation Community at other disturbances attachment:

Non native seed used? N

Non native seed description:

Seedling transplant description:

Will seedlings be transplanted for this project? N

Seedling transplant description attachment:

Will seed be harvested for use in site reclamation? N

Seed harvest description:

Seed harvest description attachment:

Seed Management

Seed Table

| Seed Summary |             |
|--------------|-------------|
| Seed Type    | Pounds/Acre |

Total pounds/Acre:

Seed reclamation attachment:

Operator Contact/Responsible Official Contact Info

First Name:

Last Name:

Phone:

Email:

|  |                          |
|--|--------------------------|
| <b>Operator Name:</b> TAP ROCK OPERATING LLC |                          |
| <b>Well Name:</b> NAILED IT FED COM          | <b>Well Number:</b> 207H |

**Seedbed prep:**

**Seed BMP:**

**Seed method:**

**Existing invasive species?** N

**Existing invasive species treatment description:**

**Existing invasive species treatment attachment:**

**Weed treatment plan description:** To BLM standards

**Weed treatment plan attachment:**

**Monitoring plan description:** To BLM standards

**Monitoring plan attachment:**

**Success standards:** To BLM satisfaction

**Pit closure description:** No pit

**Pit closure attachment:**

Section 11 - Surface Ownership

**Disturbance type:** WELL PAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** SANTA FE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:** **USFS Ranger District:**

|  |                          |
|--|--------------------------|
| <b>Operator Name:</b> TAP ROCK OPERATING LLC |                          |
| <b>Well Name:</b> NAILED IT FED COM          | <b>Well Number:</b> 207H |

**Disturbance type:** EXISTING ACCESS ROAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** SANTA FE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** NEW ACCESS ROAD

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** SANTA FE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

|  |                          |
|--|--------------------------|
| <b>Operator Name:</b> TAP ROCK OPERATING LLC |                          |
| <b>Well Name:</b> NAILED IT FED COM          | <b>Well Number:</b> 207H |

**Disturbance type:** PIPELINE

**Describe:**

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** SANTA FE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**

**Disturbance type:** OTHER

**Describe:** Central Tank Battery

**Surface Owner:** STATE GOVERNMENT

**Other surface owner description:**

**BIA Local Office:**

**BOR Local Office:**

**COE Local Office:**

**DOD Local Office:**

**NPS Local Office:**

**State Local Office:** SANTA FE

**Military Local Office:**

**USFWS Local Office:**

**Other Local Office:**

**USFS Region:**

**USFS Forest/Grassland:**

**USFS Ranger District:**