

**District I**

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

**District II**

811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720

**District III**

1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170

**District IV**

1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

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

Form C-101  
August 1, 2011

Permit 341092

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

1. Operator Name and Address TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401		2. OGRID Number 372043
		3. API Number 30-025-51519
4. Property Code 334067	5. Property Name QUEEN KEELY STATE COM	6. Well No. 195H

**7. Surface Location**

UL - Lot C	Section 21	Township 21S	Range 33E	Lot Idn C	Feet From 971	N/S Line N	Feet From 2091	E/W Line W	County Lea
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**8. Proposed Bottom Hole Location**

UL - Lot N	Section 28	Township 21S	Range 33E	Lot Idn N	Feet From 5	N/S Line S	Feet From 1650	E/W Line W	County Lea
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**9. Pool Information**

WC-025 G-08 S213304D;BONE SPRING	97895
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**Additional Well Information**

11. Work Type New Well	12. Well Type OIL	13. Cable/Rotary	14. Lease Type State	15. Ground Level Elevation 3743
16. Multiple N	17. Proposed Depth 21120	18. Formation 2nd Bone Spring Sand	19. Contractor	20. Spud Date 6/20/2023
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

☒ We will be using a closed-loop system in lieu of lined pits

**21. Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	14.75	11.75	42	1865	974	0
Int1	11	8.625	32	5649	866	0
Prod	7.875	5.5	20	21120	2348	5449

**Casing/Cement Program: Additional Comments**

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**22. Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
Annular	5000	2500	
Double Ram	10000	5000	
Pipe	10000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief.  
I further certify I have complied with 19.15.14.9 (A) NMAC ☒ and/or 19.15.14.9 (B) NMAC ☒, if applicable.

Signature:

**OIL CONSERVATION DIVISION**

Printed Name: Electronically filed by Christian Combs	Approved By: Paul F Kautz
Title: Regulatory Manager	Title: Geologist
Email Address: ccombs@taprk.com	Approved Date: 5/25/2023 Expiration Date: 5/25/2025
Date: 5/25/2023 Phone: 720-360-4028	Conditions of Approval Attached

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Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources  
Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**FORM C-102**  
**Revised August 1, 2011**  
**Submit one copy to appropriate**  
**District Office**

## AMENDED REPORT

## WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025- <b>51519</b>	<sup>2</sup> Pool Code 97895	<sup>3</sup> Pool Name WC-025 G-08 S213304D;BONE SPRING
<sup>4</sup> Property Code <b>334067</b>	<sup>5</sup> Property Name <b>QUEEN KEELY STATE COM</b>	
<sup>6</sup> Well Number <b>195H</b>	<sup>7</sup> Operator Name <b>TAP ROCK OPERATING, LLC.</b>	<sup>8</sup> Elevation <b>3743'</b>

<sup>10</sup>Surface Location

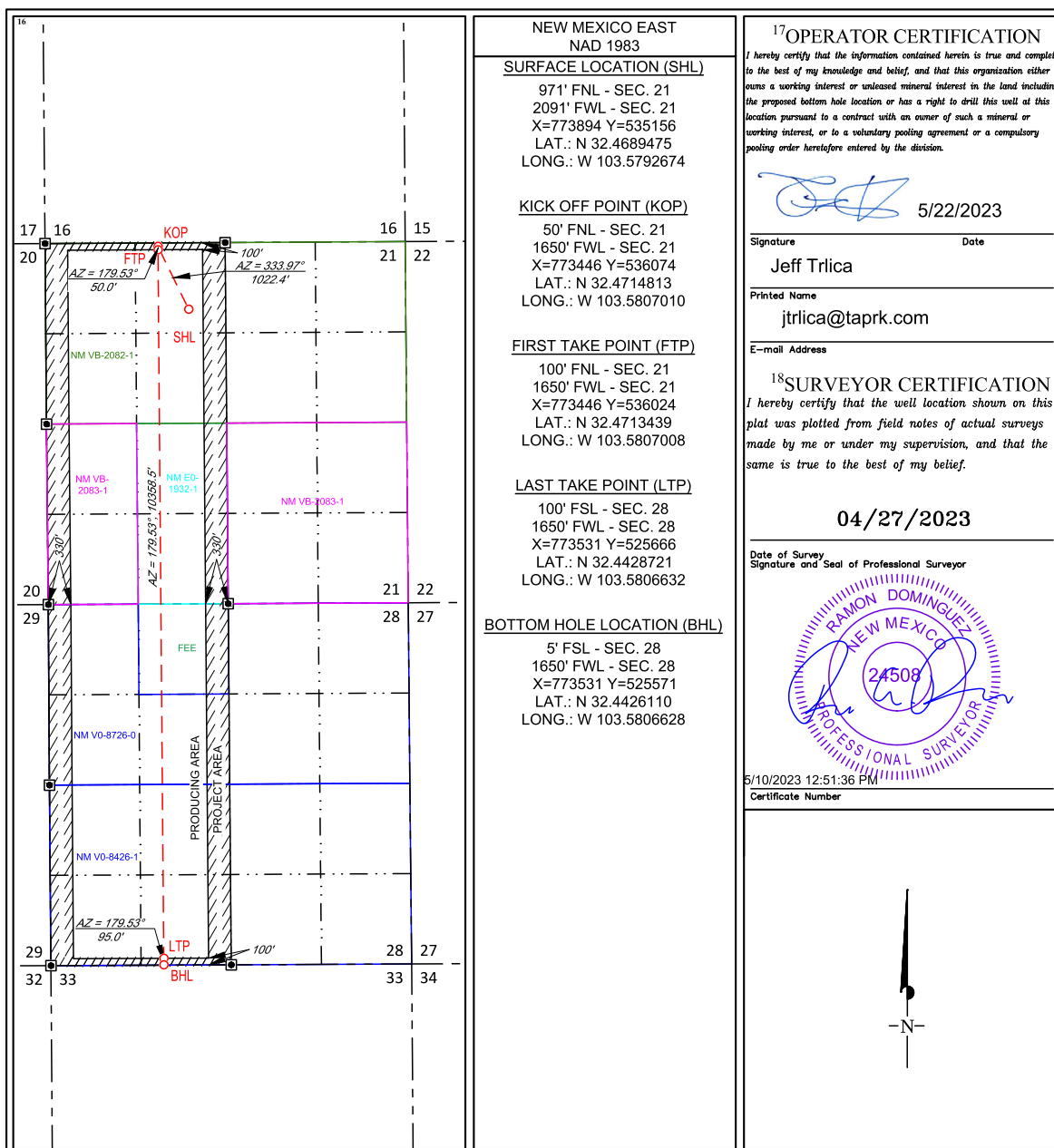
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	21	21-S	33-E	-	971'	NORTH	2091'	WEST	LEA

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

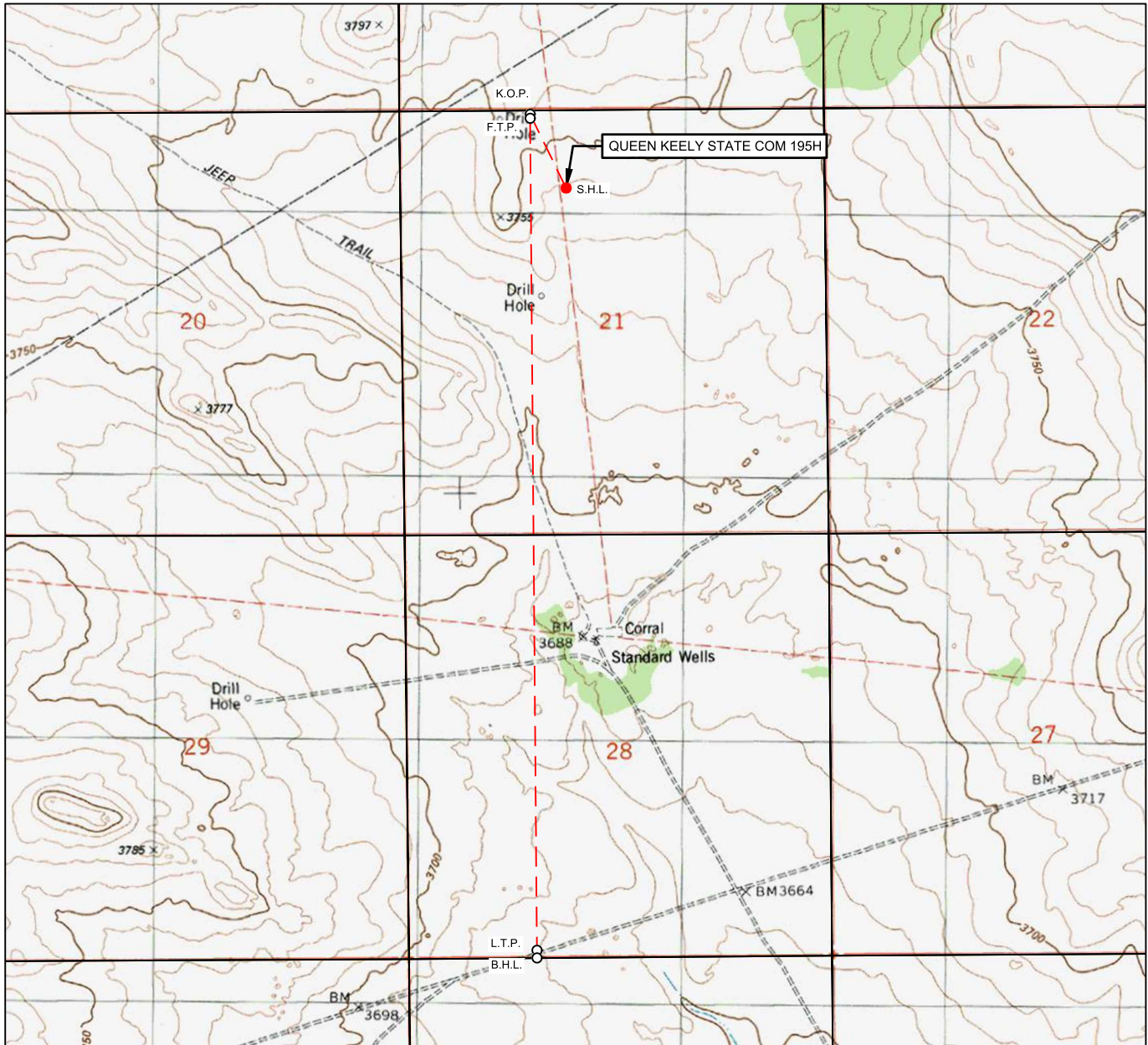
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	28	21-S	33-E	-	5'	SOUTH	1650'	WEST	LEA

<sup>12</sup> Dedicated Acres 640	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



## LOCATION &amp; ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: QUEEN KEELY STATE COM 195H

SECTION 21 TWP 21-S RGE 33-E SURVEY N.M.P.M.  
 COUNTY LEA STATE NM ELEVATION 3743'  
 DESCRIPTION 971' FNL & 2091' FWL

LATITUDE N 32.4689475 LONGITUDE W 103.5792674

SCALE: 1" = 2000'  
 0' 1000' 2000'

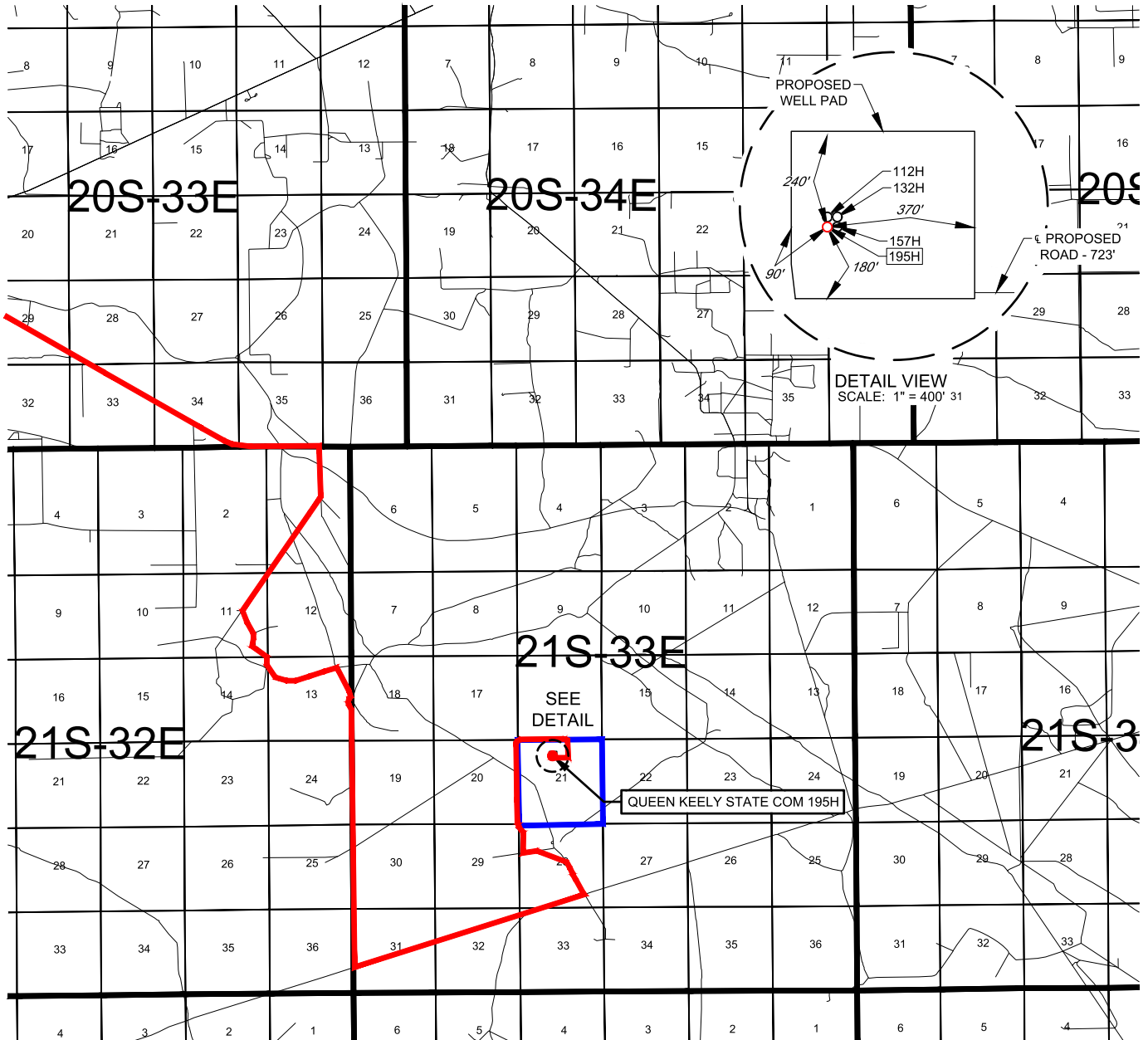
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF 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 OF 1983, EAST ZONE, U.S. SURVEY FEET.



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2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705  
 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743  
 WWW.TOPOGRAPHIC.COM

EXHIBIT 2  
VICINITY MAPLEASE NAME & WELL NO.: QUEEN KEELY STATE COM 195HSECTION 21 TWP 21-S RGE 33-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 971' FNL & 2091' FWL

## DISTANCE &amp; DIRECTION

FROM INT. OF NM-176 E. & COUNTY RD 28. GO SOUTH ON NM-176 E  $\pm 6.4$  MILES, THENCE SOUTH (RIGHT) ON A LEASE RD  $\pm 2.2$  MILES, THENCE SOUTH (LEFT) ON A LEASE RD  $\pm 0.8$  MILES, THENCE EAST (LEFT) ON DELAWARE BASIN RD.  $\pm 4.5$  MILES, THENCE NORTHEAST (RIGHT) ON A LEASE RD.  $\pm 2.9$  MILES, THENCE NORTH (LEFT) ON A LEASE RD.  $\pm 3.0$  MILES TO A POINT  $\pm 405$  FEET SOUTHEAST OF THE LOCATION.

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

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SCALE: 1" = 10000'

0' 5000' 10000'



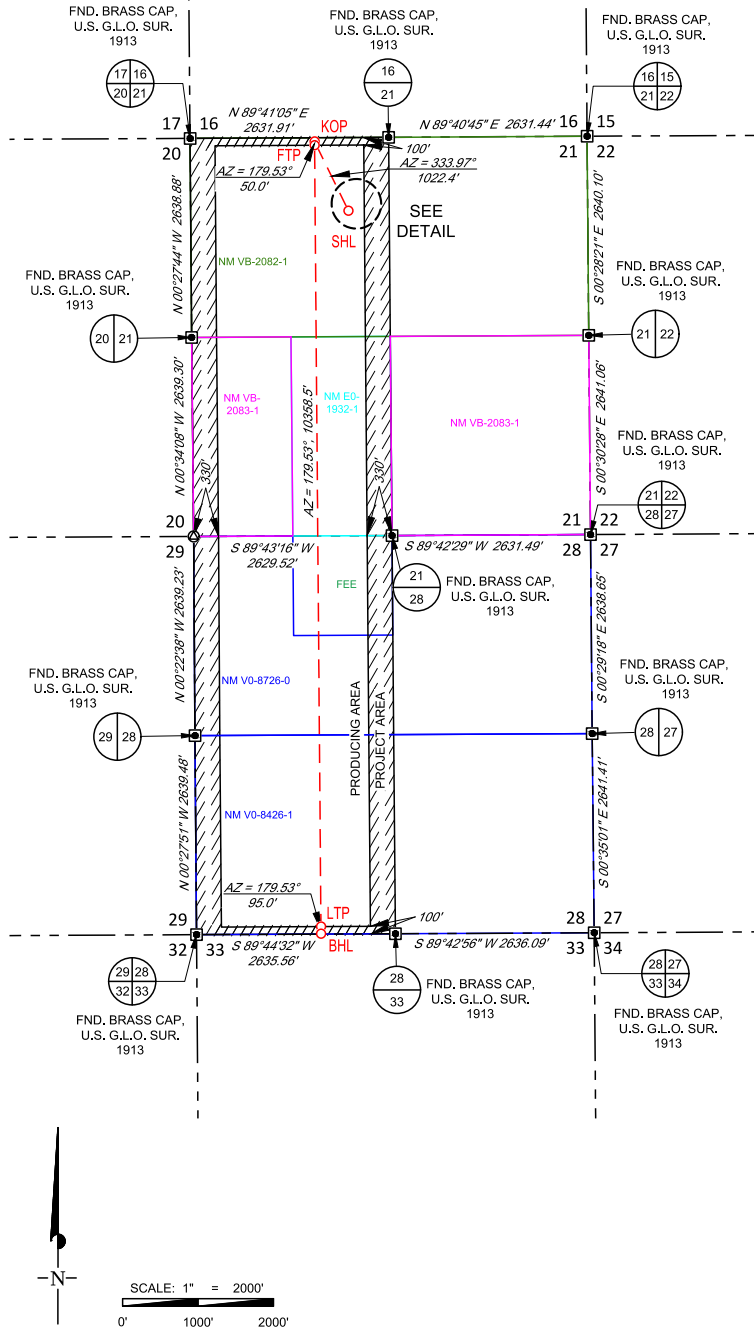
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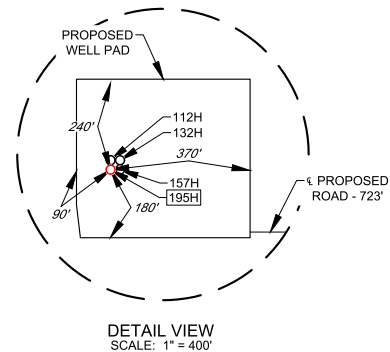
# TAP ROCK

## EXHIBIT 2A

SECTION 21, TOWNSHIP 21-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO



NEW MEXICO EAST NAD 1983	
SURFACE LOCATION (SHL)	
971' FNL - SEC. 21	
2091' FWL - SEC. 21	
X=773894 Y=535156	
LAT.: N 32.4689475	
LONG.: W 103.5792674	
KICK OFF POINT (KOP)	
50' FNL - SEC. 21	
1650' FWL - SEC. 21	
X=773446 Y=536074	
LAT.: N 32.4714871	
LONG.: W 103.5807010	
FIRST TAKE POINT (FTP)	
100' FNL - SEC. 21	
1650' FWL - SEC. 21	
X=773446 Y=536024	
LAT.: N 32.4713439	
LONG.: W 103.5807008	
LAST TAKE POINT (LTP)	
100' FSL - SEC. 28	
1650' FWL - SEC. 28	
X=773531 Y=525666	
LAT.: N 32.4428721	
LONG.: W 103.5806632	
BOTTOM HOLE LOCATION (BHL)	
5' FSL - SEC. 28	
1650' FWL - SEC. 28	
X=773531 Y=525571	
LAT.: N 32.4426110	
LONG.: W 103.5806628	



LEASE NAME & WELL NO.: QUEEN KEELY STATE COM 195H

SECTION 21 TWP 21-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM  
DESCRIPTION 971' FNL & 2091' FWL

### DISTANCE & DIRECTION

FROM INT. OF NM-176 E. & COUNTY RD 28. GO SOUTH ON NM-176 E ±6.4 MILES, THENCE SOUTH (RIGHT) ON A LEASE RD ±2.2 MILES, THENCE SOUTH (LEFT) ON A LEASE RD ±0.8 MILES, THENCE EAST (LEFT) ON DELAWARE BASIN RD. ±4.5 MILES, THENCE NORTHEAST (RIGHT) ON A LEASE RD. ±2.9 MILES, THENCE NORTH (LEFT) ON A LEASE RD. ±3.0 MILES TO A POINT ±405 FEET SOUTHEAST OF THE LOCATION.

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

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.

5/10/2023 12:51:38 PM

Ramon A Dominguez, P.S. No. 24508



**TOPOGRAPHIC**  
LOYALTY INNOVATION LEGACY

481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126  
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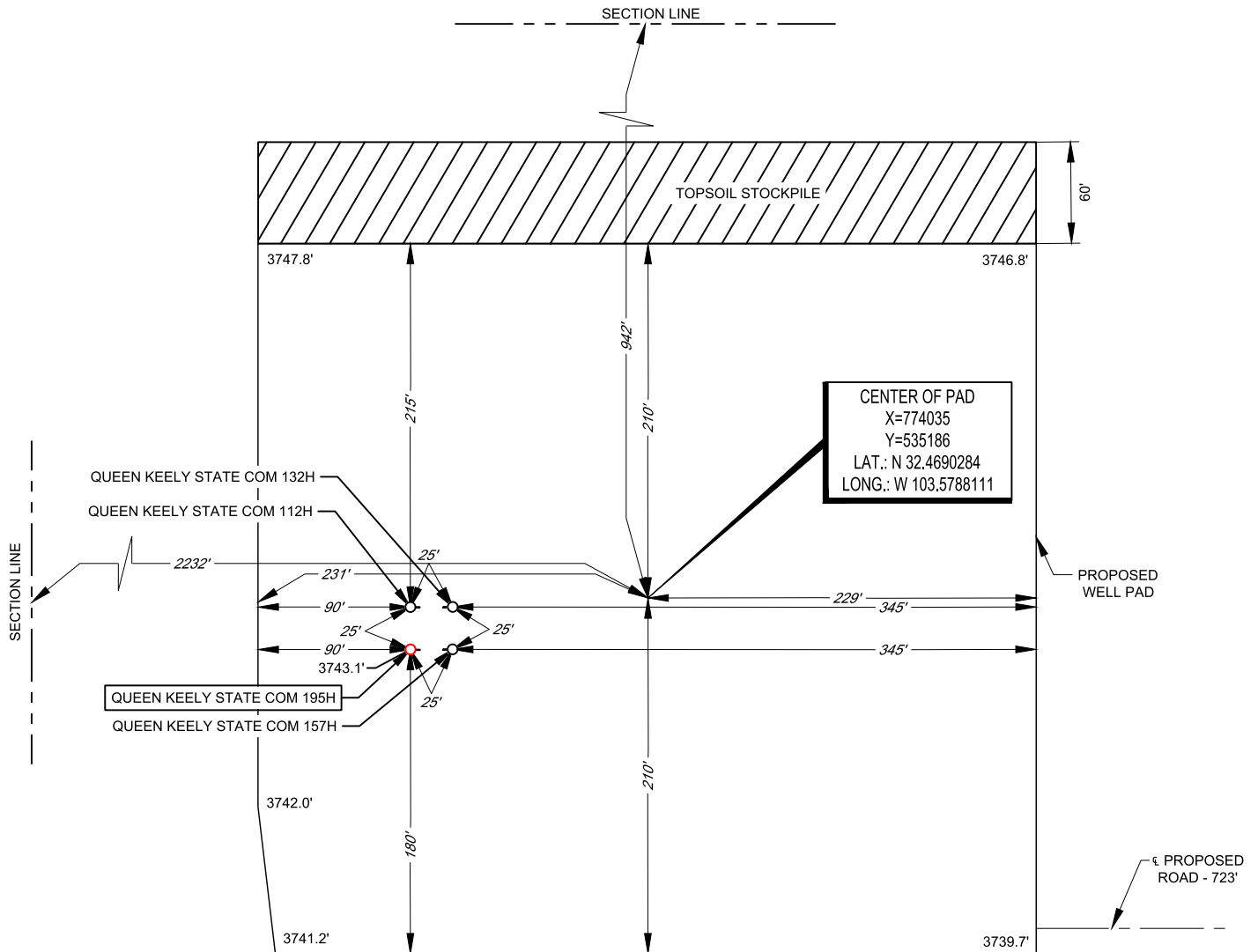
## EXHIBIT 2B



SECTION 21, TOWNSHIP 21-S, RANGE 33-E, N.M.P.M.  
LEA COUNTY, NEW MEXICO

DETAIL VIEW  
SCALE: 1" = 100'

**LEGEND**  
--- SECTION LINE  
--- PROPOSED ROAD



LEASE NAME & WELL NO.: QUEEN KEELY STATE COM 195H  
195H LATITUDE N 32.4689475 195H LONGITUDE W 103.5792674  
CENTER OF PAD IS 942' FNL & 2232' FWL

"PRELIMINARY, THIS DOCUMENT SHALL NOT  
BE RECORDED FOR ANY PURPOSE."

Ramon A Dominguez, P.S. No. 24508

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

THIS PROPOSED PAD SITE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"

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



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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

Form APD Conditions

Permit 341092

**PERMIT CONDITIONS OF APPROVAL**

Operator Name and Address: TAP ROCK OPERATING, LLC [372043] 523 Park Point Drive Golden, CO 80401	API Number: 30-025-51519
	Well: QUEEN KEELY STATE COM #195H

OCD Reviewer	Condition
pkautz	Notify OCD 24 hours prior to casing & cement
pkautz	Will require a File As Drilled C-102 and a Directional Survey with the C-104
pkautz	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string
pkautz	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system
pkautz	Cement is required to circulate on both surface and intermediate1 strings of casing
pkautz	The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud

State of New Mexico  
Energy, Minerals and Natural Resources Department

Submit Electronically  
Via E-permitting

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

## NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

### **Section 1 – Plan Description** **Effective May 25, 2021**

**I. Operator:** \_\_\_\_\_ Tap Rock Operating LLC \_\_\_\_\_ **OGRID:** \_\_\_\_\_ 372043 \_\_\_\_\_ **Date:** \_5/25/23

**II. Type:** ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: \_\_\_\_\_

**III. Well(s):** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water
Queen Keely State #195H		Sec 21 T21S R33E	319 FNL, 647 FEL	1099	1574	4587

**IV. Central Delivery Point Name:** \_\_\_ Queen Keely CDP \_\_\_ [See 19.15.27.9(D)(1) NMAC]

**V. Anticipated Schedule:** Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Queen Keely State #195H		7/04/23	9/20/23	11/13/23	12/10/23	12/10/23

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

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

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



**Section 2 – Enhanced Plan****EFFECTIVE APRIL 1, 2022**

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

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

**IX. Anticipated Natural Gas Production:**

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

**X. Natural Gas Gathering System (NGGS):**

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

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

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

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

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

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

### **Section 3 - Certifications**

**Effective May 25, 2021**

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

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

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

***If Operator checks this box, Operator will select one of the following:***

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

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

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

### **Section 4 - Notices**


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

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

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

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

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

Signature: 
Printed Name: Bill Ramsey
Title: Environmental Specialist
E-mail Address: <a href="mailto:bramsey@taprk.com">bramsey@taprk.com</a>
Date: 5/25/2023
Phone: 720-238-2787
<b>OIL CONSERVATION DIVISION</b> <b>(Only applicable when submitted as a standalone form)</b>
Approved By:
Title:
Approval Date:
Conditions of Approval:

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

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

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

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

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

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

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



## **Tap Rock Resources, LLC**

**Lea County, NM (NAD 83 NME)  
(Queen Keely State Com) Sec-21\_T-21-S\_R-33-E  
Queen Keely State Com #195H**

**OWB**

**Plan: Plan #1**

## **Standard Planning Report**

**24 May, 2023**







# Intrepid Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Queen Keely State Com #195H
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

<b>Project</b>	Lea 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>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E		
<b>Site Position:</b>		<b>Northing:</b>	535,191.00 usft
<b>From:</b>	Map	<b>Easting:</b>	772,614.00 usft
<b>Position Uncertainty:</b>	0.0 usft	<b>Slot Radius:</b>	13-3/16 "
		<b>Latitude:</b>	32° 28' 8.651 N
		<b>Longitude:</b>	103° 35' 0.303 W
		<b>Grid Convergence:</b>	0.40 °

<b>Well</b>	Queen Keely State Com #195H		
<b>Well Position</b>	<b>+N/-S</b>	-35.0 usft	<b>Northing:</b> 535,156.00 usft
	<b>+E/-W</b>	1,280.0 usft	<b>Easting:</b> 773,894.00 usft
<b>Position Uncertainty</b>	0.0 usft	<b>Wellhead Elevation:</b>	<b>Latitude:</b> 32° 28' 8.215 N
			<b>Longitude:</b> 103° 34' 45.366 W
			<b>Ground Level:</b> 3,743.0 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2015	05/22/23	6.33	60.20	47,468.78074499

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	179.53

<b>Plan Survey Tool Program</b>	<b>Date</b>	05/24/23		
<b>Depth From (usft)</b>	<b>Depth To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Remarks</b>
1	0.0	21,119.6	Plan #1 (OWB)	MWD
			OWSG MWD - Standard	



# Intrepid Planning Report



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<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

## Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,408.7	9.09	333.94	2,404.9	64.6	-31.6	1.00	1.00	0.00	333.94	
7,968.7	9.09	333.94	7,895.1	853.4	-417.4	0.00	0.00	0.00	0.00	
8,877.4	0.00	0.00	8,800.0	918.0	-449.0	1.00	-1.00	0.00	180.00	
10,287.9	0.00	0.00	10,210.5	918.0	-449.0	0.00	0.00	0.00	0.00	
11,185.9	89.80	179.53	10,783.5	347.1	-444.3	10.00	10.00	19.99	179.53	
13,536.6	89.80	179.53	10,791.7	-2,003.6	-425.1	0.00	0.00	0.00	0.00	2000'VS (Queen Ke
13,551.6	89.50	179.53	10,791.8	-2,018.6	-425.0	2.00	-2.00	0.00	180.00	
15,536.7	89.50	179.53	10,809.2	-4,003.5	-408.7	0.00	0.00	0.00	0.00	4000'VS (Queen Ke
15,561.8	89.00	179.53	10,809.5	-4,028.6	-408.5	2.00	-2.00	0.00	-180.00	
18,037.1	89.00	179.53	10,852.8	-6,503.4	-388.2	0.00	0.00	0.00	0.00	6500'VS (Queen Ke
18,061.9	88.50	179.53	10,853.4	-6,528.3	-388.0	2.00	-2.00	0.00	-179.90	
20,037.7	88.50	179.53	10,905.1	-8,503.3	-371.8	0.00	0.00	0.00	0.00	
20,062.9	89.00	179.53	10,905.6	-8,528.5	-371.6	2.00	2.00	0.01	0.28	
21,119.6	89.00	179.53	10,924.0	-9,585.0	-363.0	0.00	0.00	0.00	0.00	PBHL (Queen Keely



# Intrepid Planning Report



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<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<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	
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	
1,400.0	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	
<b>NUDGE - Build 1.00</b>										
1,600.0	1.00	333.94	1,600.0	0.8	-0.4	-0.8	1.00	1.00	0.00	
1,700.0	2.00	333.94	1,700.0	3.1	-1.5	-3.1	1.00	1.00	0.00	
1,800.0	3.00	333.94	1,799.9	7.1	-3.5	-7.1	1.00	1.00	0.00	
1,900.0	4.00	333.94	1,899.7	12.5	-6.1	-12.6	1.00	1.00	0.00	
2,000.0	5.00	333.94	1,999.4	19.6	-9.6	-19.7	1.00	1.00	0.00	
2,100.0	6.00	333.94	2,098.9	28.2	-13.8	-28.3	1.00	1.00	0.00	
2,200.0	7.00	333.94	2,198.3	38.4	-18.8	-38.5	1.00	1.00	0.00	
2,300.0	8.00	333.94	2,297.4	50.1	-24.5	-50.3	1.00	1.00	0.00	
2,408.7	9.09	333.94	2,404.9	64.6	-31.6	-64.9	1.00	1.00	0.00	
<b>HOLD - 5560.0 at 2408.7 MD</b>										
2,500.0	9.09	333.94	2,495.0	77.5	-37.9	-77.9	0.00	0.00	0.00	
2,600.0	9.09	333.94	2,593.8	91.7	-44.9	-92.1	0.00	0.00	0.00	
2,700.0	9.09	333.94	2,692.5	105.9	-51.8	-106.3	0.00	0.00	0.00	
2,800.0	9.09	333.94	2,791.3	120.1	-58.7	-120.6	0.00	0.00	0.00	
2,900.0	9.09	333.94	2,890.0	134.3	-65.7	-134.8	0.00	0.00	0.00	
3,000.0	9.09	333.94	2,988.8	148.5	-72.6	-149.1	0.00	0.00	0.00	
3,100.0	9.09	333.94	3,087.5	162.7	-79.6	-163.3	0.00	0.00	0.00	
3,200.0	9.09	333.94	3,186.3	176.9	-86.5	-177.6	0.00	0.00	0.00	
3,300.0	9.09	333.94	3,285.0	191.0	-93.4	-191.8	0.00	0.00	0.00	
3,400.0	9.09	333.94	3,383.8	205.2	-100.4	-206.1	0.00	0.00	0.00	
3,500.0	9.09	333.94	3,482.5	219.4	-107.3	-220.3	0.00	0.00	0.00	
3,600.0	9.09	333.94	3,581.2	233.6	-114.3	-234.5	0.00	0.00	0.00	
3,700.0	9.09	333.94	3,680.0	247.8	-121.2	-248.8	0.00	0.00	0.00	
3,800.0	9.09	333.94	3,778.7	262.0	-128.1	-263.0	0.00	0.00	0.00	
3,900.0	9.09	333.94	3,877.5	276.2	-135.1	-277.3	0.00	0.00	0.00	
4,000.0	9.09	333.94	3,976.2	290.4	-142.0	-291.5	0.00	0.00	0.00	
4,100.0	9.09	333.94	4,075.0	304.5	-149.0	-305.8	0.00	0.00	0.00	
4,200.0	9.09	333.94	4,173.7	318.7	-155.9	-320.0	0.00	0.00	0.00	
4,300.0	9.09	333.94	4,272.5	332.9	-162.8	-334.2	0.00	0.00	0.00	
4,400.0	9.09	333.94	4,371.2	347.1	-169.8	-348.5	0.00	0.00	0.00	
4,500.0	9.09	333.94	4,469.9	361.3	-176.7	-362.7	0.00	0.00	0.00	
4,600.0	9.09	333.94	4,568.7	375.5	-183.7	-377.0	0.00	0.00	0.00	
4,700.0	9.09	333.94	4,667.4	389.7	-190.6	-391.2	0.00	0.00	0.00	
4,800.0	9.09	333.94	4,766.2	403.9	-197.5	-405.5	0.00	0.00	0.00	
4,900.0	9.09	333.94	4,864.9	418.0	-204.5	-419.7	0.00	0.00	0.00	
5,000.0	9.09	333.94	4,963.7	432.2	-211.4	-433.9	0.00	0.00	0.00	



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<b>Site:</b>	(Queen Keely State Com)	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<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)	
5,100.0	9.09	333.94	5,062.4	446.4	-218.3	-448.2	0.00	0.00	0.00	
5,200.0	9.09	333.94	5,161.2	460.6	-225.3	-462.4	0.00	0.00	0.00	
5,300.0	9.09	333.94	5,259.9	474.8	-232.2	-476.7	0.00	0.00	0.00	
5,400.0	9.09	333.94	5,358.7	489.0	-239.2	-490.9	0.00	0.00	0.00	
5,500.0	9.09	333.94	5,457.4	503.2	-246.1	-505.2	0.00	0.00	0.00	
5,600.0	9.09	333.94	5,556.1	517.4	-253.0	-519.4	0.00	0.00	0.00	
5,700.0	9.09	333.94	5,654.9	531.5	-260.0	-533.7	0.00	0.00	0.00	
5,800.0	9.09	333.94	5,753.6	545.7	-266.9	-547.9	0.00	0.00	0.00	
5,900.0	9.09	333.94	5,852.4	559.9	-273.9	-562.1	0.00	0.00	0.00	
6,000.0	9.09	333.94	5,951.1	574.1	-280.8	-576.4	0.00	0.00	0.00	
6,100.0	9.09	333.94	6,049.9	588.3	-287.7	-590.6	0.00	0.00	0.00	
6,200.0	9.09	333.94	6,148.6	602.5	-294.7	-604.9	0.00	0.00	0.00	
6,300.0	9.09	333.94	6,247.4	616.7	-301.6	-619.1	0.00	0.00	0.00	
6,400.0	9.09	333.94	6,346.1	630.9	-308.6	-633.4	0.00	0.00	0.00	
6,500.0	9.09	333.94	6,444.8	645.0	-315.5	-647.6	0.00	0.00	0.00	
6,600.0	9.09	333.94	6,543.6	659.2	-322.4	-661.8	0.00	0.00	0.00	
6,700.0	9.09	333.94	6,642.3	673.4	-329.4	-676.1	0.00	0.00	0.00	
6,800.0	9.09	333.94	6,741.1	687.6	-336.3	-690.3	0.00	0.00	0.00	
6,900.0	9.09	333.94	6,839.8	701.8	-343.2	-704.6	0.00	0.00	0.00	
7,000.0	9.09	333.94	6,938.6	716.0	-350.2	-718.8	0.00	0.00	0.00	
7,100.0	9.09	333.94	7,037.3	730.2	-357.1	-733.1	0.00	0.00	0.00	
7,200.0	9.09	333.94	7,136.1	744.3	-364.1	-747.3	0.00	0.00	0.00	
7,300.0	9.09	333.94	7,234.8	758.5	-371.0	-761.6	0.00	0.00	0.00	
7,400.0	9.09	333.94	7,333.6	772.7	-377.9	-775.8	0.00	0.00	0.00	
7,500.0	9.09	333.94	7,432.3	786.9	-384.9	-790.0	0.00	0.00	0.00	
7,600.0	9.09	333.94	7,531.0	801.1	-391.8	-804.3	0.00	0.00	0.00	
7,700.0	9.09	333.94	7,629.8	815.3	-398.8	-818.5	0.00	0.00	0.00	
7,800.0	9.09	333.94	7,728.5	829.5	-405.7	-832.8	0.00	0.00	0.00	
7,900.0	9.09	333.94	7,827.3	843.7	-412.6	-847.0	0.00	0.00	0.00	
7,968.7	9.09	333.94	7,895.1	853.4	-417.4	-856.8	0.00	0.00	0.00	
<b>DROP - -1.00</b>										
8,000.0	8.77	333.94	7,926.0	857.8	-419.5	-861.2	1.00	-1.00	0.00	
8,100.0	7.77	333.94	8,025.0	870.7	-425.9	-874.2	1.00	-1.00	0.00	
8,200.0	6.77	333.94	8,124.2	882.1	-431.4	-885.6	1.00	-1.00	0.00	
8,300.0	5.77	333.94	8,223.6	891.9	-436.2	-895.4	1.00	-1.00	0.00	
8,400.0	4.77	333.94	8,323.2	900.1	-440.3	-903.7	1.00	-1.00	0.00	
8,500.0	3.77	333.94	8,422.9	906.8	-443.5	-910.4	1.00	-1.00	0.00	
8,600.0	2.77	333.94	8,522.7	912.0	-446.1	-915.6	1.00	-1.00	0.00	
8,700.0	1.77	333.94	8,622.6	915.5	-447.8	-919.2	1.00	-1.00	0.00	
8,800.0	0.77	333.94	8,722.6	917.5	-448.8	-921.2	1.00	-1.00	0.00	
8,877.4	0.00	0.00	8,800.0	918.0	-449.0	-921.7	1.00	-1.00	0.00	
<b>HOLD - 1410.5 at 8877.4 MD</b>										
8,900.0	0.00	0.00	8,822.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,000.0	0.00	0.00	8,922.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,022.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,122.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,222.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,322.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,422.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,522.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,622.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,722.6	918.0	-449.0	-921.7	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,822.6	918.0	-449.0	-921.7	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 Queen Keely State Com #195H
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<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)
10,000.0	0.00	0.00	9,922.6	918.0	-449.0	-921.7	0.00	0.00	0.00
10,100.0	0.00	0.00	10,022.6	918.0	-449.0	-921.7	0.00	0.00	0.00
10,200.0	0.00	0.00	10,122.6	918.0	-449.0	-921.7	0.00	0.00	0.00
10,287.9	0.00	0.00	10,210.5	918.0	-449.0	-921.7	0.00	0.00	0.00
<b>KOP - DLS 10.00 TFO 179.53</b>									
10,300.0	1.21	179.53	10,222.6	917.9	-449.0	-921.5	10.00	10.00	0.00
10,350.0	6.21	179.53	10,272.5	914.6	-449.0	-918.3	10.00	10.00	0.00
10,400.0	11.21	179.53	10,321.9	907.1	-448.9	-910.7	10.00	10.00	0.00
10,450.0	16.21	179.53	10,370.5	895.2	-448.8	-898.9	10.00	10.00	0.00
10,500.0	21.21	179.53	10,417.8	879.2	-448.7	-882.8	10.00	10.00	0.00
10,550.0	26.21	179.53	10,463.6	859.1	-448.5	-862.7	10.00	10.00	0.00
10,600.0	31.21	179.53	10,507.4	835.1	-448.3	-838.7	10.00	10.00	0.00
10,650.0	36.21	179.53	10,549.0	807.3	-448.1	-811.0	10.00	10.00	0.00
10,700.0	41.21	179.53	10,588.0	776.1	-447.8	-779.7	10.00	10.00	0.00
10,750.0	46.21	179.53	10,624.1	741.5	-447.6	-745.2	10.00	10.00	0.00
10,800.0	51.21	179.53	10,657.1	704.0	-447.2	-707.6	10.00	10.00	0.00
10,850.0	56.21	179.53	10,686.7	663.7	-446.9	-667.3	10.00	10.00	0.00
10,900.0	61.21	179.53	10,712.6	621.0	-446.6	-624.6	10.00	10.00	0.00
10,950.0	66.21	179.53	10,734.8	576.2	-446.2	-579.8	10.00	10.00	0.00
11,000.0	71.21	179.53	10,752.9	529.6	-445.8	-533.2	10.00	10.00	0.00
11,050.0	76.21	179.53	10,766.9	481.6	-445.4	-485.3	10.00	10.00	0.00
11,100.0	81.21	179.53	10,776.7	432.6	-445.0	-436.2	10.00	10.00	0.00
11,150.0	86.21	179.53	10,782.2	382.9	-444.6	-386.6	10.00	10.00	0.00
11,185.9	89.80	179.53	10,783.5	347.1	-444.3	-350.7	10.00	10.00	0.00
<b>EOC - 2350.8 hold at 11185.9 MD</b>									
11,200.0	89.80	179.53	10,783.5	333.0	-444.2	-336.6	0.00	0.00	0.00
11,300.0	89.80	179.53	10,783.9	233.0	-443.4	-236.6	0.00	0.00	0.00
11,400.0	89.80	179.53	10,784.2	133.0	-442.6	-136.6	0.00	0.00	0.00
11,500.0	89.80	179.53	10,784.6	33.0	-441.8	-36.6	0.00	0.00	0.00
11,600.0	89.80	179.53	10,784.9	-67.0	-440.9	63.4	0.00	0.00	0.00
11,700.0	89.80	179.53	10,785.3	-167.0	-440.1	163.4	0.00	0.00	0.00
11,800.0	89.80	179.53	10,785.6	-267.0	-439.3	263.4	0.00	0.00	0.00
11,900.0	89.80	179.53	10,786.0	-367.0	-438.5	363.4	0.00	0.00	0.00
12,000.0	89.80	179.53	10,786.3	-467.0	-437.7	463.4	0.00	0.00	0.00
12,100.0	89.80	179.53	10,786.7	-567.0	-436.8	563.4	0.00	0.00	0.00
12,200.0	89.80	179.53	10,787.0	-667.0	-436.0	663.4	0.00	0.00	0.00
12,300.0	89.80	179.53	10,787.4	-767.0	-435.2	763.4	0.00	0.00	0.00
12,400.0	89.80	179.53	10,787.7	-867.0	-434.4	863.4	0.00	0.00	0.00
12,500.0	89.80	179.53	10,788.1	-967.0	-433.6	963.4	0.00	0.00	0.00
12,600.0	89.80	179.53	10,788.4	-1,067.0	-432.7	1,063.4	0.00	0.00	0.00
12,700.0	89.80	179.53	10,788.8	-1,167.0	-431.9	1,163.4	0.00	0.00	0.00
12,800.0	89.80	179.53	10,789.1	-1,267.0	-431.1	1,263.4	0.00	0.00	0.00
12,900.0	89.80	179.53	10,789.5	-1,367.0	-430.3	1,363.4	0.00	0.00	0.00
13,000.0	89.80	179.53	10,789.8	-1,467.0	-429.5	1,463.4	0.00	0.00	0.00
13,100.0	89.80	179.53	10,790.2	-1,567.0	-428.7	1,563.4	0.00	0.00	0.00
13,200.0	89.80	179.53	10,790.5	-1,667.0	-427.8	1,663.4	0.00	0.00	0.00
13,300.0	89.80	179.53	10,790.9	-1,767.0	-427.0	1,763.4	0.00	0.00	0.00
13,400.0	89.80	179.53	10,791.3	-1,867.0	-426.2	1,863.4	0.00	0.00	0.00
13,500.0	89.80	179.53	10,791.6	-1,967.0	-425.4	1,963.4	0.00	0.00	0.00
13,536.6	89.80	179.53	10,791.7	-2,003.6	-425.1	2,000.0	0.00	0.00	0.00
<b>Start DLS 2.00 TFO 180.00</b>									
13,551.6	89.50	179.53	10,791.8	-2,018.6	-425.0	2,015.0	2.00	-2.00	0.00



# Intrepid Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Queen Keely State Com #195H
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<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>Start 1985.1 hold at 13551.6 MD</b>									
13,600.0	89.50	179.53	10,792.2	-2,067.0	-424.6	2,063.4	0.00	0.00	0.00
13,700.0	89.50	179.53	10,793.1	-2,166.9	-423.7	2,163.4	0.00	0.00	0.00
13,800.0	89.50	179.53	10,794.0	-2,266.9	-422.9	2,263.4	0.00	0.00	0.00
13,900.0	89.50	179.53	10,794.9	-2,366.9	-422.1	2,363.4	0.00	0.00	0.00
14,000.0	89.50	179.53	10,795.7	-2,466.9	-421.3	2,463.4	0.00	0.00	0.00
14,100.0	89.50	179.53	10,796.6	-2,566.9	-420.5	2,563.4	0.00	0.00	0.00
14,200.0	89.50	179.53	10,797.5	-2,666.9	-419.6	2,663.4	0.00	0.00	0.00
14,300.0	89.50	179.53	10,798.4	-2,766.9	-418.8	2,763.4	0.00	0.00	0.00
14,400.0	89.50	179.53	10,799.2	-2,866.9	-418.0	2,863.4	0.00	0.00	0.00
14,500.0	89.50	179.53	10,800.1	-2,966.9	-417.2	2,963.4	0.00	0.00	0.00
14,600.0	89.50	179.53	10,801.0	-3,066.9	-416.4	3,063.4	0.00	0.00	0.00
14,700.0	89.50	179.53	10,801.9	-3,166.9	-415.6	3,163.4	0.00	0.00	0.00
14,800.0	89.50	179.53	10,802.7	-3,266.9	-414.7	3,263.4	0.00	0.00	0.00
14,900.0	89.50	179.53	10,803.6	-3,366.9	-413.9	3,363.4	0.00	0.00	0.00
15,000.0	89.50	179.53	10,804.5	-3,466.9	-413.1	3,463.3	0.00	0.00	0.00
15,100.0	89.50	179.53	10,805.4	-3,566.8	-412.3	3,563.3	0.00	0.00	0.00
15,200.0	89.50	179.53	10,806.2	-3,666.8	-411.5	3,663.3	0.00	0.00	0.00
15,300.0	89.50	179.53	10,807.1	-3,766.8	-410.6	3,763.3	0.00	0.00	0.00
15,400.0	89.50	179.53	10,808.0	-3,866.8	-409.8	3,863.3	0.00	0.00	0.00
15,500.0	89.50	179.53	10,808.9	-3,966.8	-409.0	3,963.3	0.00	0.00	0.00
15,536.7	89.50	179.53	10,809.2	-4,003.5	-408.7	4,000.0	0.00	0.00	0.00
<b>Start DLS 2.00 TFO -180.00</b>									
15,561.8	89.00	179.53	10,809.5	-4,028.6	-408.5	4,025.1	2.00	-2.00	0.00
<b>Start 2475.3 hold at 15561.8 MD</b>									
15,600.0	89.00	179.53	10,810.2	-4,066.8	-408.2	4,063.3	0.00	0.00	0.00
15,700.0	89.00	179.53	10,811.9	-4,166.8	-407.4	4,163.3	0.00	0.00	0.00
15,800.0	89.00	179.53	10,813.7	-4,266.8	-406.5	4,263.3	0.00	0.00	0.00
15,900.0	89.00	179.53	10,815.4	-4,366.7	-405.7	4,363.3	0.00	0.00	0.00
16,000.0	89.00	179.53	10,817.2	-4,466.7	-404.9	4,463.3	0.00	0.00	0.00
16,100.0	89.00	179.53	10,818.9	-4,566.7	-404.1	4,563.2	0.00	0.00	0.00
16,200.0	89.00	179.53	10,820.7	-4,666.7	-403.3	4,663.2	0.00	0.00	0.00
16,300.0	89.00	179.53	10,822.4	-4,766.7	-402.5	4,763.2	0.00	0.00	0.00
16,400.0	89.00	179.53	10,824.2	-4,866.7	-401.6	4,863.2	0.00	0.00	0.00
16,500.0	89.00	179.53	10,825.9	-4,966.6	-400.8	4,963.2	0.00	0.00	0.00
16,600.0	89.00	179.53	10,827.7	-5,066.6	-400.0	5,063.2	0.00	0.00	0.00
16,700.0	89.00	179.53	10,829.4	-5,166.6	-399.2	5,163.1	0.00	0.00	0.00
16,800.0	89.00	179.53	10,831.2	-5,266.6	-398.4	5,263.1	0.00	0.00	0.00
16,900.0	89.00	179.53	10,832.9	-5,366.6	-397.5	5,363.1	0.00	0.00	0.00
17,000.0	89.00	179.53	10,834.7	-5,466.5	-396.7	5,463.1	0.00	0.00	0.00
17,100.0	89.00	179.53	10,836.4	-5,566.5	-395.9	5,563.1	0.00	0.00	0.00
17,200.0	89.00	179.53	10,838.2	-5,666.5	-395.1	5,663.1	0.00	0.00	0.00
17,300.0	89.00	179.53	10,839.9	-5,766.5	-394.3	5,763.1	0.00	0.00	0.00
17,400.0	89.00	179.53	10,841.7	-5,866.5	-393.4	5,863.0	0.00	0.00	0.00
17,500.0	89.00	179.53	10,843.4	-5,966.4	-392.6	5,963.0	0.00	0.00	0.00
17,600.0	89.00	179.53	10,845.2	-6,066.4	-391.8	6,063.0	0.00	0.00	0.00
17,700.0	89.00	179.53	10,846.9	-6,166.4	-391.0	6,163.0	0.00	0.00	0.00
17,800.0	89.00	179.53	10,848.7	-6,266.4	-390.2	6,263.0	0.00	0.00	0.00
17,900.0	89.00	179.53	10,850.4	-6,366.4	-389.4	6,363.0	0.00	0.00	0.00
18,000.0	89.00	179.53	10,852.2	-6,466.4	-388.5	6,463.0	0.00	0.00	0.00
18,037.1	89.00	179.53	10,852.8	-6,503.4	-388.2	6,500.0	0.00	0.00	0.00
<b>Start DLS 2.00 TFO -179.90</b>									
18,061.9	88.50	179.53	10,853.4	-6,528.3	-388.0	6,524.9	2.00	-2.00	0.00





# Intrepid Planning Report



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<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<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>Start 1975.8 hold at 18061.9 MD</b>									
18,100.0	88.50	179.53	10,854.4	-6,566.3	-387.7	6,562.9	0.00	0.00	0.00
18,200.0	88.50	179.53	10,857.0	-6,666.3	-386.9	6,662.9	0.00	0.00	0.00
18,300.0	88.50	179.53	10,859.6	-6,766.3	-386.1	6,762.9	0.00	0.00	0.00
18,400.0	88.50	179.53	10,862.2	-6,866.2	-385.3	6,862.8	0.00	0.00	0.00
18,500.0	88.50	179.53	10,864.8	-6,966.2	-384.4	6,962.8	0.00	0.00	0.00
18,600.0	88.50	179.53	10,867.5	-7,066.1	-383.6	7,062.8	0.00	0.00	0.00
18,700.0	88.50	179.53	10,870.1	-7,166.1	-382.8	7,162.7	0.00	0.00	0.00
18,800.0	88.50	179.53	10,872.7	-7,266.1	-382.0	7,262.7	0.00	0.00	0.00
18,900.0	88.50	179.53	10,875.3	-7,366.0	-381.2	7,362.7	0.00	0.00	0.00
19,000.0	88.50	179.53	10,877.9	-7,466.0	-380.3	7,462.6	0.00	0.00	0.00
19,100.0	88.50	179.53	10,880.5	-7,566.0	-379.5	7,562.6	0.00	0.00	0.00
19,200.0	88.50	179.53	10,883.2	-7,665.9	-378.7	7,662.5	0.00	0.00	0.00
19,300.0	88.50	179.53	10,885.8	-7,765.9	-377.9	7,762.5	0.00	0.00	0.00
19,400.0	88.50	179.53	10,888.4	-7,865.8	-377.1	7,862.5	0.00	0.00	0.00
19,500.0	88.50	179.53	10,891.0	-7,965.8	-376.2	7,962.4	0.00	0.00	0.00
19,600.0	88.50	179.53	10,893.6	-8,065.8	-375.4	8,062.4	0.00	0.00	0.00
19,700.0	88.50	179.53	10,896.2	-8,165.7	-374.6	8,162.4	0.00	0.00	0.00
19,800.0	88.50	179.53	10,898.9	-8,265.7	-373.8	8,262.3	0.00	0.00	0.00
19,900.0	88.50	179.53	10,901.5	-8,365.7	-373.0	8,362.3	0.00	0.00	0.00
20,000.0	88.50	179.53	10,904.1	-8,465.6	-372.1	8,462.3	0.00	0.00	0.00
20,037.7	88.50	179.53	10,905.1	-8,503.3	-371.8	8,500.0	0.00	0.00	0.00
<b>Start DLS 2.00 TFO 0.28</b>									
20,062.9	89.00	179.53	10,905.6	-8,528.5	-371.6	8,525.2	2.00	2.00	0.01
<b>Start 1056.7 hold at 20062.9 MD</b>									
20,100.0	89.00	179.53	10,906.3	-8,565.6	-371.3	8,562.3	0.00	0.00	0.00
20,200.0	89.00	179.53	10,908.0	-8,665.6	-370.5	8,662.2	0.00	0.00	0.00
20,300.0	89.00	179.53	10,909.8	-8,765.5	-369.7	8,762.2	0.00	0.00	0.00
20,400.0	89.00	179.53	10,911.5	-8,865.5	-368.9	8,862.2	0.00	0.00	0.00
20,500.0	89.00	179.53	10,913.2	-8,965.5	-368.1	8,962.2	0.00	0.00	0.00
20,600.0	89.00	179.53	10,915.0	-9,065.5	-367.2	9,062.2	0.00	0.00	0.00
20,700.0	89.00	179.53	10,916.7	-9,165.5	-366.4	9,162.2	0.00	0.00	0.00
20,800.0	89.00	179.53	10,918.4	-9,265.5	-365.6	9,262.1	0.00	0.00	0.00
20,900.0	89.00	179.53	10,920.2	-9,365.4	-364.8	9,362.1	0.00	0.00	0.00
21,000.0	89.00	179.53	10,921.9	-9,465.4	-364.0	9,462.1	0.00	0.00	0.00
21,100.0	89.00	179.53	10,923.7	-9,565.4	-363.2	9,562.1	0.00	0.00	0.00
21,119.6	89.00	179.53	10,924.0	-9,585.0	-363.0	9,581.7	0.00	0.00	0.00
<b>TD at 21119.6</b>									



# Intrepid Planning Report



<b>Database:</b>	EDM 5000.15 Single User Db	<b>Local Co-ordinate Reference:</b>	Well Queen Keely State Com #195H
<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

## Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (Queen Keely Sta - plan misses target center by 204.0usft at 10761.1usft MD (10631.7 TVD, 733.4 N, -447.5 E) - Point	0.00	0.00	10,785.0	868.0	-448.0	536,024.00	773,446.00	32° 28' 16.835 N	103° 34' 50.523 W
KOP (Queen Keely Sta - plan misses target center by 238.5usft at 10744.4usft MD (10620.2 TVD, 745.6 N, -447.6 E) - Point	0.00	0.00	10,785.0	918.0	-448.0	536,074.00	773,446.00	32° 28' 17.330 N	103° 34' 50.519 W
2000'VS (Queen Keely - plan hits target center - Rectangle (sides W100.0 H2,868.0 D30.0)	0.20	179.53	10,791.7	-2,003.6	-425.1	533,152.40	773,468.92	32° 27' 48.420 N	103° 34' 50.492 W
4000'VS (Queen Keely - plan hits target center - Rectangle (sides W100.0 H2,000.0 D30.0)	0.50	179.53	10,809.2	-4,003.5	-408.7	531,152.50	773,485.30	32° 27' 28.630 N	103° 34' 50.466 W
6500'VS (Queen Keely - plan hits target center - Rectangle (sides W100.0 H2,500.0 D30.0)	1.00	179.53	10,852.8	-6,503.4	-388.2	528,652.60	773,505.76	32° 27' 3.892 N	103° 34' 50.432 W
8500'VS (Queen Keely - plan misses target center by 0.1usft at 20037.7usft MD (10905.1 TVD, -8503.3 N, -371.8 E) - Rectangle (sides W100.0 H2,000.0 D30.0)	1.50	179.53	10,905.2	-8,503.3	-371.9	526,652.70	773,522.14	32° 26' 44.103 N	103° 34' 50.406 W
LTP (Queen Keely Sta - plan misses target center by 1.8usft at 21024.6usft MD (10922.3 TVD, -9490.0 N, -363.8 E) - Point	0.00	0.00	10,924.0	-9,490.0	-363.0	525,666.00	773,531.00	32° 26' 34.339 N	103° 34' 50.384 W
PBHL (Queen Keely Sta - plan hits target center - Rectangle (sides W100.0 H1,085.0 D30.0)	1.00	179.53	10,924.0	-9,585.0	-363.0	525,571.00	773,531.00	32° 26' 33.399 N	103° 34' 50.391 W

## Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,840.2	1,840.0	Rustler			
2,267.3	2,265.0	Top Salt			
5,528.0	5,485.0	Base Salt			
5,593.8	5,550.0	Delaware			
5,598.8	5,555.0	Lamar			
5,619.1	5,575.0	Bell			
5,634.3	5,590.0	Ramsey			
6,090.0	6,040.0	Cherry			
7,112.8	7,050.0	Brushy			
8,877.4	8,800.0	Bone Spring			
9,062.4	8,985.0	Bone Spring Base			
9,402.4	9,325.0	Avalon Middle			
10,057.4	9,980.0	1st Bone Spring			
10,434.0	10,355.0	2nd Bone Spring Carb			
10,657.5	10,555.0	2nd Bone Spring Sand			



# Intrepid Planning Report



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<b>Company:</b>	Tap Rock Resources, LLC	<b>TVD Reference:</b>	KB @ 3769.0usft
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>MD Reference:</b>	KB @ 3769.0usft
<b>Site:</b>	(Queen Keely State Com) Sec-21_T-21-S_R-33-E	<b>North Reference:</b>	Grid
<b>Well:</b>	Queen Keely State Com #195H	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Wellbore:</b>	OWB		
<b>Design:</b>	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	NUDGE - Build 1.00
2,408.7	2,404.9	64.6	-31.6	HOLD - 5560.0 at 2408.7 MD
7,968.7	7,895.1	853.4	-417.4	DROP - -1.00
8,877.4	8,800.0	918.0	-449.0	HOLD - 1410.5 at 8877.4 MD
10,287.9	10,210.5	918.0	-449.0	KOP - DLS 10.00 TFO 179.53
11,185.9	10,783.5	347.1	-444.3	EOC - 2350.8 hold at 11185.9 MD
13,536.6	10,791.7	-2,003.6	-425.1	Start DLS 2.00 TFO 180.00
13,551.6	10,791.8	-2,018.6	-425.0	Start 1985.1 hold at 13551.6 MD
15,536.7	10,809.2	-4,003.5	-408.7	Start DLS 2.00 TFO -180.00
15,561.8	10,809.5	-4,028.6	-408.5	Start 2475.3 hold at 15561.8 MD
18,037.1	10,852.8	-6,503.4	-388.2	Start DLS 2.00 TFO -179.90
18,061.9	10,853.4	-6,528.3	-388.0	Start 1975.8 hold at 18061.9 MD
20,037.7	10,905.1	-8,503.3	-371.8	Start DLS 2.00 TFO 0.28
20,062.9	10,905.6	-8,528.5	-371.6	Start 1056.7 hold at 20062.9 MD
21,119.6	10,924.0	-9,585.0	-363.0	TD at 21119.6