

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

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

WELL API NO. 30-025-47425
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Apollo State Com
8. Well Number 181H
9. OGRID Number 372043
10. Pool name or Wildcat Triple X; Bone Spring, West
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3536 GR

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator TAP ROCK OPERATING, LLC	
3. Address of Operator 523 PARK POINT DR, SUITE 200, GOLDEN, CO 80401	
4. Well Location Unit Letter <u>M</u> : <u>823</u> feet from the <u>South</u> line and <u>575</u> feet from the <u>West</u> line Section <u>21</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3536 GR	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Tap Rock is proposing to change the SHL and the BHL for the Apollo State Com 181H. Due to this change the directional drilling plan has changed and is attached for detail.

Previously approved SHL: 823 FSL, 575 FWL of Section 21, T24S, R33E

New proposed SHL: 863 FSL, 570 FWL of Section 21, T24S, R33E

Previous approved BHL: 30 FNL, 331 FWL of Section 16, T24S, R33E

New proposed BHL: 30 FNL, 990 FWL of Section 16, T24S, R33E

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

SIGNATURE Bill Ramsey TITLE Regulatory Analyst DATE 3/9/2021

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

For State Use Only

APPROVED BY: P Kautz TITLE DATE 03/19/2021
 Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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811 S. First St., Artesia, NM 88210
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District III
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
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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

¹ API Number 30-025-47425	² Pool Code 96674	³ Pool Name TRIPLE X;BONE SPRING, WEST
⁴ Property Code 328891	⁵ Property Name APOLLO STATE COM	⁶ Well Number 181H
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3535'

¹⁰Surface Location

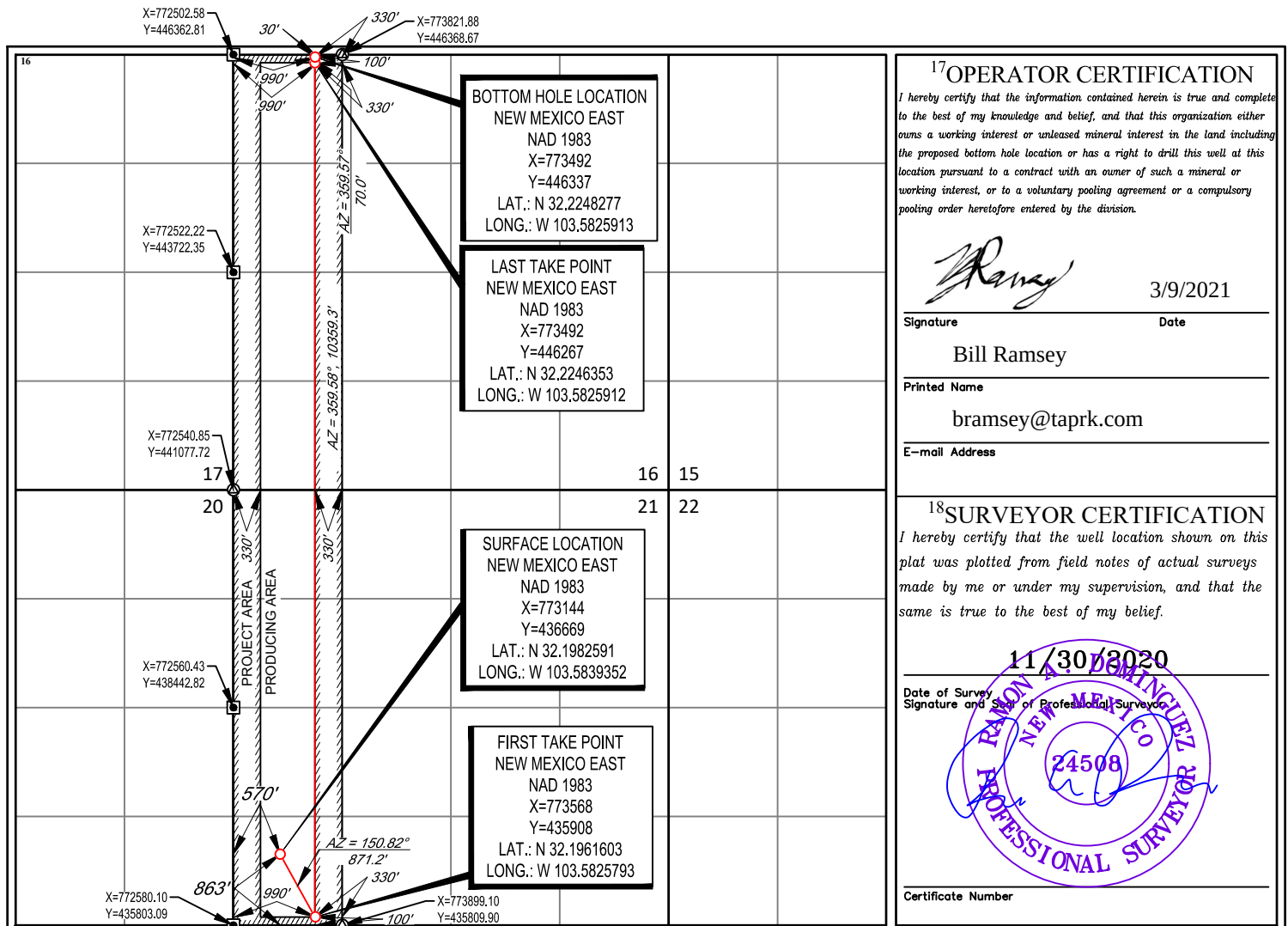
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	24-S	33-E	-	863'	SOUTH	570'	WEST	LEA

¹¹Bottom Hole Location If Different From Surface

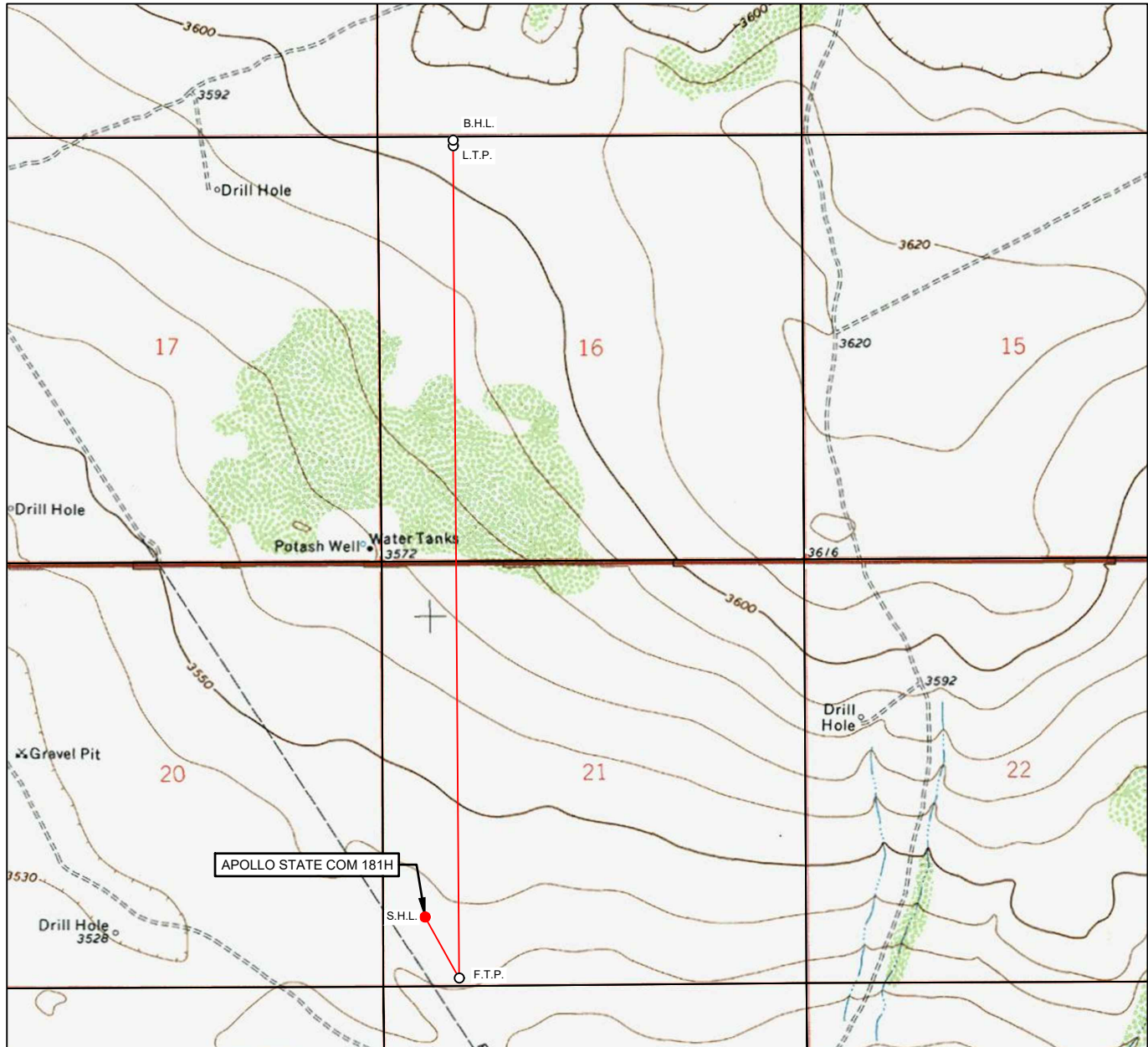
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	16	24-S	33-E	-	30'	NORTH	990'	WEST	LEA

¹² Dedicated Acres 320	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ 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 & ELEVATION VERIFICATION MAP

LEASE NAME & WELL NO.: APOLLO STATE COM 181H

SECTION 21 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3535'
 DESCRIPTION 863' FSL & 570' FWL

LATITUDE N 32.1982591 LONGITUDE W 103.5839352

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

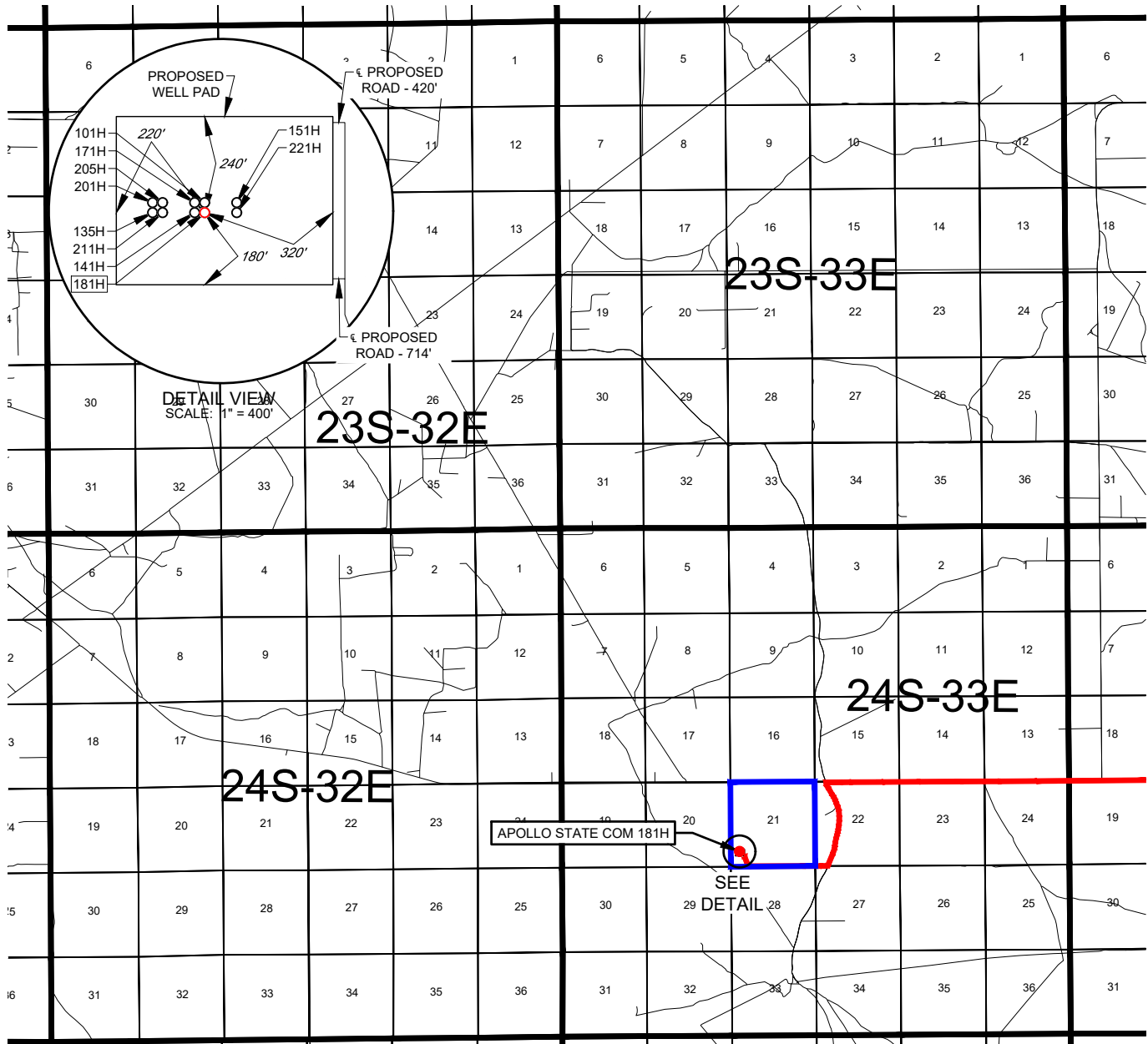
THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF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



TOPOGRAPHIC
 LOYALTY INNOVATION LEGACY

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

EXHIBIT 2
VICINITY MAPLEASE NAME & WELL NO.: APOLLO STATE COM 181HSECTION 21 TWP 24-S RGE 33-E SURVEY N.M.P.M.COUNTY LEA STATE NMDESCRIPTION 863' FSL & 570' FWL

DISTANCE & DIRECTION

FROM INT. OF NM-128. & DELAWARE BASIN RD.. GO WEST ON NM-128
 ±3.3 MILES. THENCE SOUTH (LEFT) ON DIAMOND RD./J-2 ±1.1 MILES,
 THENCE WEST (RIGHT) ON A LEASE RD. ±0.9 MILES, THENCE
 NORTHWEST (RIGHT) ON A PROPOSED RD. ±714 FEET TO A POINT ±360
 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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 MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.

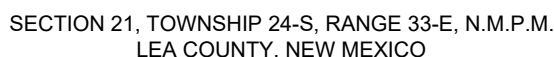


SCALE: 1" = 10000'
 0' 5000' 10000'



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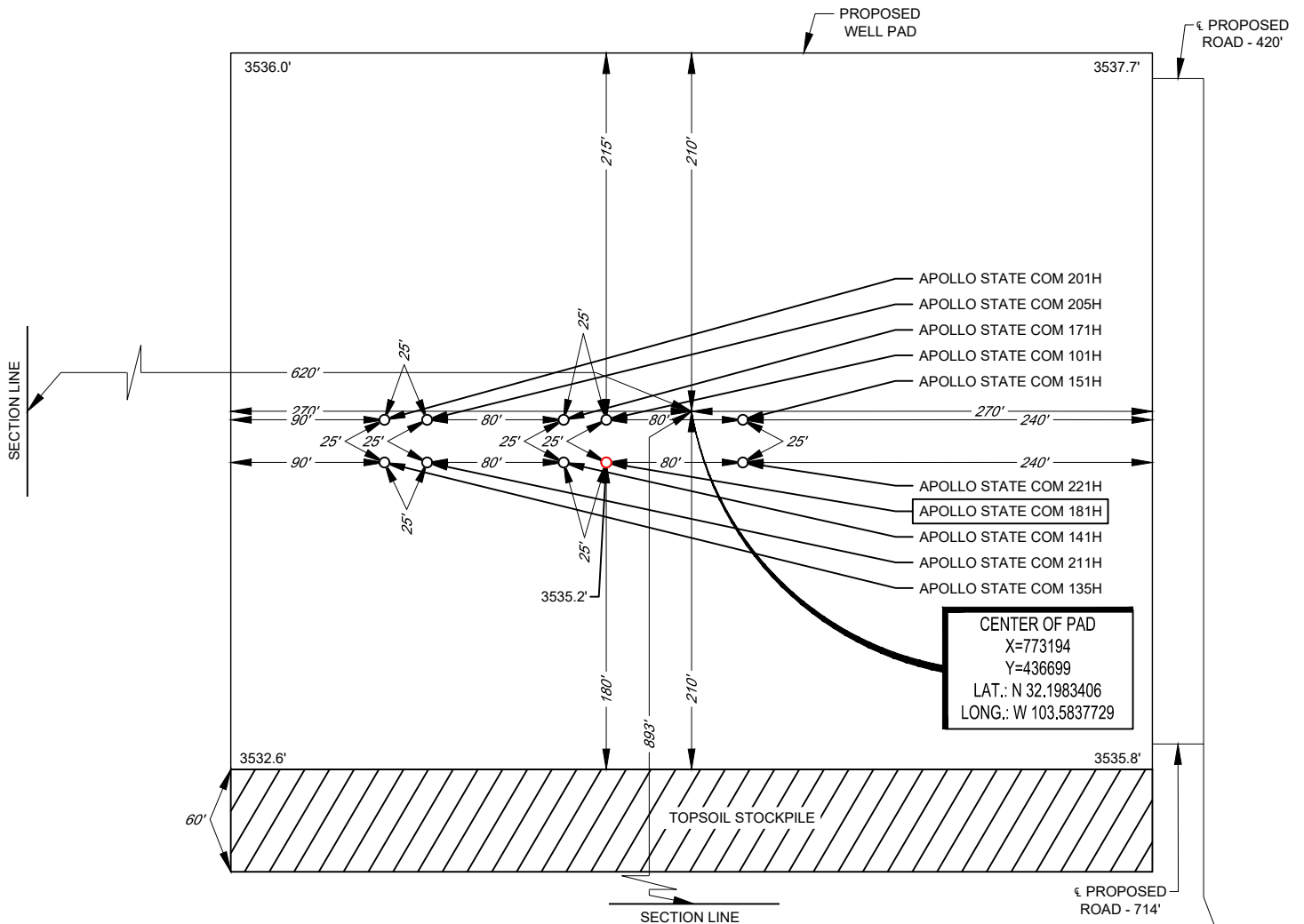


SECTION 21, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

DETAIL VIEW
SCALE: 1" = 100'

LEGEND

SECTION LINE
PROPOSED ROAD



LEASE NAME & WELL NO.: APOLLO STATE COM 181H
181H LATITUDE N 32.1982591 181H LONGITUDE W 103.5839352

CENTER OF PAD IS 893' FSL & 620' FWL



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"



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 2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
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 WWW.TOPOGRAPHIC.COM

Tap Rock Operating, LLC.

Lea County, NM (NAD83)

Apollo State COM

181H

OH

Plan: Plan #2

Standard Planning Report

02 March, 2021

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 181H
Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Apollo State COM				
Site Position:		Northing:	436,628.77 usft	Latitude:	32° 11' 53.336 N
From:	Lat/Long	Easting:	773,148.60 usft	Longitude:	103° 35' 2.112 W
Position Uncertainty:	2.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.40 °

Well	181H					
Well Position	+N/-S	40.2 usft	Northing:	436,669.00 usft	Latitude:	32° 11' 53.735 N
	+E/-W	-4.6 usft	Easting:	773,144.00 usft	Longitude:	103° 35' 2.162 W
Position Uncertainty		2.0 usft	Wellhead Elevation:		Ground Level:	3,535.0 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/28/2019	6.70	60.01	47,678

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.58

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	
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,866.7	7.00	160.00	1,865.5	-26.8	9.7	1.50	1.50	0.00	160.00	
8,766.7	7.00	160.00	8,714.1	-816.9	297.3	0.00	0.00	0.00	0.00	
9,233.3	0.00	0.00	9,179.6	-843.7	307.1	1.50	-1.50	0.00	180.00	
9,428.8	0.00	0.00	9,375.0	-843.7	307.1	0.00	0.00	0.00	0.00	
10,328.9	90.01	8.20	9,948.0	-276.5	388.8	10.00	10.00	0.00	8.20	
10,759.9	90.01	359.58	9,947.9	153.1	418.0	2.00	0.00	-2.00	-89.99	
20,205.0	90.01	359.58	9,946.0	9,598.0	349.0	0.00	0.00	0.00	0.00	LTP_A.181H
20,275.0	90.01	359.58	9,946.0	9,668.0	348.5	0.00	0.00	0.00	0.00	PBHL_A.181H

Planning Report

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Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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
1,158.0	0.00	0.00	1,158.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
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
Start Build 1.50									
1,500.0	1.50	160.00	1,500.0	-1.2	0.4	-1.2	1.50	1.50	0.00
1,600.0	3.00	160.00	1,599.9	-4.9	1.8	-4.9	1.50	1.50	0.00
1,649.2	3.74	160.00	1,649.0	-7.6	2.8	-7.7	1.50	1.50	0.00
Top Salt									
1,700.0	4.50	160.00	1,699.7	-11.1	4.0	-11.1	1.50	1.50	0.00
1,800.0	6.00	160.00	1,799.3	-19.7	7.2	-19.7	1.50	1.50	0.00
1,866.7	7.00	160.00	1,865.5	-26.8	9.7	-26.8	1.50	1.50	0.00
Start 6900.0 hold at 1866.7 MD									
1,900.0	7.00	160.00	1,898.6	-30.6	11.1	-30.7	0.00	0.00	0.00
2,000.0	7.00	160.00	1,997.8	-42.0	15.3	-42.1	0.00	0.00	0.00
2,100.0	7.00	160.00	2,097.1	-53.5	19.5	-53.6	0.00	0.00	0.00
2,200.0	7.00	160.00	2,196.4	-64.9	23.6	-65.1	0.00	0.00	0.00
2,300.0	7.00	160.00	2,295.6	-76.4	27.8	-76.6	0.00	0.00	0.00
2,400.0	7.00	160.00	2,394.9	-87.8	32.0	-88.1	0.00	0.00	0.00
2,500.0	7.00	160.00	2,494.1	-99.3	36.1	-99.5	0.00	0.00	0.00
2,600.0	7.00	160.00	2,593.4	-110.7	40.3	-111.0	0.00	0.00	0.00
2,700.0	7.00	160.00	2,692.6	-122.2	44.5	-122.5	0.00	0.00	0.00
2,800.0	7.00	160.00	2,791.9	-133.6	48.6	-134.0	0.00	0.00	0.00
2,900.0	7.00	160.00	2,891.1	-145.1	52.8	-145.5	0.00	0.00	0.00
3,000.0	7.00	160.00	2,990.4	-156.5	57.0	-157.0	0.00	0.00	0.00
3,100.0	7.00	160.00	3,089.6	-168.0	61.1	-168.4	0.00	0.00	0.00
3,200.0	7.00	160.00	3,188.9	-179.4	65.3	-179.9	0.00	0.00	0.00
3,300.0	7.00	160.00	3,288.2	-190.9	69.5	-191.4	0.00	0.00	0.00
3,400.0	7.00	160.00	3,387.4	-202.4	73.6	-202.9	0.00	0.00	0.00
3,500.0	7.00	160.00	3,486.7	-213.8	77.8	-214.4	0.00	0.00	0.00
3,600.0	7.00	160.00	3,585.9	-225.3	82.0	-225.9	0.00	0.00	0.00
3,700.0	7.00	160.00	3,685.2	-236.7	86.2	-237.3	0.00	0.00	0.00
3,800.0	7.00	160.00	3,784.4	-248.2	90.3	-248.8	0.00	0.00	0.00
3,900.0	7.00	160.00	3,883.7	-259.6	94.5	-260.3	0.00	0.00	0.00
4,000.0	7.00	160.00	3,982.9	-271.1	98.7	-271.8	0.00	0.00	0.00
4,100.0	7.00	160.00	4,082.2	-282.5	102.8	-283.3	0.00	0.00	0.00
4,200.0	7.00	160.00	4,181.4	-294.0	107.0	-294.7	0.00	0.00	0.00
4,300.0	7.00	160.00	4,280.7	-305.4	111.2	-306.2	0.00	0.00	0.00
4,400.0	7.00	160.00	4,380.0	-316.9	115.3	-317.7	0.00	0.00	0.00
4,500.0	7.00	160.00	4,479.2	-328.3	119.5	-329.2	0.00	0.00	0.00
4,600.0	7.00	160.00	4,578.5	-339.8	123.7	-340.7	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 181H
Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
4,700.0	7.00	160.00	4,677.7	-351.2	127.8	-352.2	0.00	0.00	0.00
4,800.0	7.00	160.00	4,777.0	-362.7	132.0	-363.6	0.00	0.00	0.00
4,900.0	7.00	160.00	4,876.2	-374.1	136.2	-375.1	0.00	0.00	0.00
4,928.0	7.00	160.00	4,904.0	-377.3	137.3	-378.3	0.00	0.00	0.00
Base Salt									
5,000.0	7.00	160.00	4,975.5	-385.6	140.3	-386.6	0.00	0.00	0.00
5,100.0	7.00	160.00	5,074.7	-397.0	144.5	-398.1	0.00	0.00	0.00
5,148.6	7.00	160.00	5,123.0	-402.6	146.5	-403.7	0.00	0.00	0.00
Delaware Mountain Gp									
5,169.8	7.00	160.00	5,144.0	-405.0	147.4	-406.1	0.00	0.00	0.00
Lamar									
5,200.0	7.00	160.00	5,174.0	-408.5	148.7	-409.6	0.00	0.00	0.00
5,211.1	7.00	160.00	5,185.0	-409.8	149.1	-410.8	0.00	0.00	0.00
Bell Canyon									
5,243.3	7.00	160.00	5,217.0	-413.4	150.5	-414.5	0.00	0.00	0.00
Ramsey Sand									
5,300.0	7.00	160.00	5,273.2	-419.9	152.8	-421.0	0.00	0.00	0.00
5,400.0	7.00	160.00	5,372.5	-431.4	157.0	-432.5	0.00	0.00	0.00
5,500.0	7.00	160.00	5,471.8	-442.8	161.2	-444.0	0.00	0.00	0.00
5,600.0	7.00	160.00	5,571.0	-454.3	165.3	-455.5	0.00	0.00	0.00
5,700.0	7.00	160.00	5,670.3	-465.7	169.5	-467.0	0.00	0.00	0.00
5,800.0	7.00	160.00	5,769.5	-477.2	173.7	-478.5	0.00	0.00	0.00
5,900.0	7.00	160.00	5,868.8	-488.7	177.9	-489.9	0.00	0.00	0.00
6,000.0	7.00	160.00	5,968.0	-500.1	182.0	-501.4	0.00	0.00	0.00
6,100.0	7.00	160.00	6,067.3	-511.6	186.2	-512.9	0.00	0.00	0.00
6,200.0	7.00	160.00	6,166.5	-523.0	190.4	-524.4	0.00	0.00	0.00
6,201.5	7.00	160.00	6,168.0	-523.2	190.4	-524.6	0.00	0.00	0.00
Cherry Canyon									
6,300.0	7.00	160.00	6,265.8	-534.5	194.5	-535.9	0.00	0.00	0.00
6,400.0	7.00	160.00	6,365.0	-545.9	198.7	-547.4	0.00	0.00	0.00
6,500.0	7.00	160.00	6,464.3	-557.4	202.9	-558.8	0.00	0.00	0.00
6,600.0	7.00	160.00	6,563.6	-568.8	207.0	-570.3	0.00	0.00	0.00
6,700.0	7.00	160.00	6,662.8	-580.3	211.2	-581.8	0.00	0.00	0.00
6,800.0	7.00	160.00	6,762.1	-591.7	215.4	-593.3	0.00	0.00	0.00
6,900.0	7.00	160.00	6,861.3	-603.2	219.5	-604.8	0.00	0.00	0.00
7,000.0	7.00	160.00	6,960.6	-614.6	223.7	-616.2	0.00	0.00	0.00
7,100.0	7.00	160.00	7,059.8	-626.1	227.9	-627.7	0.00	0.00	0.00
7,200.0	7.00	160.00	7,159.1	-637.5	232.0	-639.2	0.00	0.00	0.00
7,300.0	7.00	160.00	7,258.3	-649.0	236.2	-650.7	0.00	0.00	0.00
7,400.0	7.00	160.00	7,357.6	-660.4	240.4	-662.2	0.00	0.00	0.00
7,500.0	7.00	160.00	7,456.8	-671.9	244.5	-673.7	0.00	0.00	0.00
7,600.0	7.00	160.00	7,556.1	-683.3	248.7	-685.1	0.00	0.00	0.00
7,690.6	7.00	160.00	7,646.0	-693.7	252.5	-695.5	0.00	0.00	0.00
Brushy Canyon									
7,700.0	7.00	160.00	7,655.4	-694.8	252.9	-696.6	0.00	0.00	0.00
7,800.0	7.00	160.00	7,754.6	-706.2	257.0	-708.1	0.00	0.00	0.00
7,900.0	7.00	160.00	7,853.9	-717.7	261.2	-719.6	0.00	0.00	0.00
8,000.0	7.00	160.00	7,953.1	-729.1	265.4	-731.1	0.00	0.00	0.00
8,100.0	7.00	160.00	8,052.4	-740.6	269.6	-742.6	0.00	0.00	0.00
8,200.0	7.00	160.00	8,151.6	-752.0	273.7	-754.0	0.00	0.00	0.00
8,300.0	7.00	160.00	8,250.9	-763.5	277.9	-765.5	0.00	0.00	0.00
8,400.0	7.00	160.00	8,350.1	-775.0	282.1	-777.0	0.00	0.00	0.00
8,500.0	7.00	160.00	8,449.4	-786.4	286.2	-788.5	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 181H
Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
8,600.0	7.00	160.00	8,548.7	-797.9	290.4	-800.0	0.00	0.00	0.00
8,700.0	7.00	160.00	8,647.9	-809.3	294.6	-811.4	0.00	0.00	0.00
8,766.7	7.00	160.00	8,714.1	-816.9	297.3	-819.1	0.00	0.00	0.00
Start Drop -1.50									
8,800.0	6.50	160.00	8,747.2	-820.6	298.7	-822.8	1.50	-1.50	0.00
8,900.0	5.00	160.00	8,846.7	-830.0	302.1	-832.2	1.50	-1.50	0.00
9,000.0	3.50	160.00	8,946.4	-837.0	304.6	-839.2	1.50	-1.50	0.00
9,100.0	2.00	160.00	9,046.3	-841.5	306.3	-843.7	1.50	-1.50	0.00
9,166.7	1.00	160.00	9,113.0	-843.1	306.9	-845.4	1.50	-1.50	0.00
Bone Spring Lime									
9,200.0	0.50	160.00	9,146.2	-843.6	307.0	-845.8	1.50	-1.50	0.00
9,233.3	0.00	0.00	9,179.6	-843.7	307.1	-845.9	1.50	-1.50	0.00
Start 195.4 hold at 9233.3 MD									
9,270.8	0.00	0.00	9,217.0	-843.7	307.1	-845.9	0.00	0.00	0.00
Upper Avalon									
9,300.0	0.00	0.00	9,246.2	-843.7	307.1	-845.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,346.2	-843.7	307.1	-845.9	0.00	0.00	0.00
9,428.8	0.00	0.00	9,375.0	-843.7	307.1	-845.9	0.00	0.00	0.00
Start Build 10.00									
9,450.0	2.12	8.20	9,396.2	-843.3	307.1	-845.5	10.00	10.00	0.00
9,495.9	6.71	8.20	9,442.0	-839.8	307.6	-842.0	10.00	10.00	0.00
Middle Avalon									
9,500.0	7.12	8.20	9,446.1	-839.3	307.7	-841.5	10.00	10.00	0.00
9,550.0	12.12	8.20	9,495.3	-831.0	308.9	-833.3	10.00	10.00	0.00
9,600.0	17.12	8.20	9,543.7	-818.6	310.7	-820.8	10.00	10.00	0.00
9,650.0	22.12	8.20	9,590.8	-801.9	313.1	-804.2	10.00	10.00	0.00
9,700.0	27.12	8.20	9,636.2	-781.3	316.1	-783.6	10.00	10.00	0.00
9,750.0	32.12	8.20	9,679.7	-756.9	319.6	-759.2	10.00	10.00	0.00
9,800.0	37.12	8.20	9,720.8	-728.8	323.6	-731.1	10.00	10.00	0.00
9,850.0	42.12	8.20	9,759.3	-697.2	328.2	-699.6	10.00	10.00	0.00
9,900.0	47.12	8.20	9,794.9	-662.5	333.2	-664.9	10.00	10.00	0.00
9,924.2	49.54	8.20	9,811.0	-644.5	335.8	-647.0	10.00	10.00	0.00
Lower Avalon									
9,950.0	52.12	8.20	9,827.3	-624.8	338.6	-627.2	10.00	10.00	0.00
10,000.0	57.12	8.20	9,856.2	-584.4	344.4	-586.9	10.00	10.00	0.00
10,050.0	62.12	8.20	9,881.5	-541.8	350.6	-544.3	10.00	10.00	0.00
10,100.0	67.12	8.20	9,902.9	-497.1	357.0	-499.7	10.00	10.00	0.00
10,150.0	72.12	8.20	9,920.3	-450.7	363.7	-453.3	10.00	10.00	0.00
10,200.0	77.12	8.20	9,933.6	-403.0	370.6	-405.7	10.00	10.00	0.00
10,250.0	82.12	8.20	9,942.6	-354.3	377.6	-357.1	10.00	10.00	0.00
10,300.0	87.12	8.20	9,947.3	-305.1	384.7	-307.9	10.00	10.00	0.00
10,328.9	90.01	8.20	9,948.0	-276.5	388.8	-279.3	10.00	10.00	0.00
Start DLS 2.00 TFO -89.99									
10,400.0	90.01	6.78	9,948.0	-206.0	398.1	-208.9	2.00	0.00	-2.00
10,500.0	90.01	4.78	9,948.0	-106.5	408.2	-109.5	2.00	0.00	-2.00
10,600.0	90.01	2.78	9,947.9	-6.7	414.7	-9.8	2.00	0.00	-2.00
10,700.0	90.01	0.78	9,947.9	93.2	417.8	90.2	2.00	0.00	-2.00
10,759.9	90.01	359.58	9,947.9	153.1	418.0	150.0	2.00	0.00	-2.00
Start 9445.2 hold at 10759.9 MD									
10,800.0	90.01	359.58	9,947.9	193.2	417.7	190.2	0.00	0.00	0.00
10,900.0	90.01	359.58	9,947.9	293.2	417.0	290.2	0.00	0.00	0.00
11,000.0	90.01	359.58	9,947.9	393.2	416.3	390.2	0.00	0.00	0.00
11,100.0	90.01	359.58	9,947.8	493.2	415.5	490.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 181H
Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)
11,200.0	90.01	359.58	9,947.8	593.2	414.8	590.2	0.00	0.00	0.00
11,300.0	90.01	359.58	9,947.8	693.2	414.1	690.2	0.00	0.00	0.00
11,400.0	90.01	359.58	9,947.8	793.2	413.4	790.2	0.00	0.00	0.00
11,500.0	90.01	359.58	9,947.8	893.2	412.6	890.2	0.00	0.00	0.00
11,600.0	90.01	359.58	9,947.7	993.2	411.9	990.2	0.00	0.00	0.00
11,700.0	90.01	359.58	9,947.7	1,093.2	411.2	1,090.2	0.00	0.00	0.00
11,800.0	90.01	359.58	9,947.7	1,193.2	410.4	1,190.2	0.00	0.00	0.00
11,900.0	90.01	359.58	9,947.7	1,293.2	409.7	1,290.2	0.00	0.00	0.00
12,000.0	90.01	359.58	9,947.7	1,393.2	409.0	1,390.2	0.00	0.00	0.00
12,100.0	90.01	359.58	9,947.6	1,493.2	408.2	1,490.2	0.00	0.00	0.00
12,200.0	90.01	359.58	9,947.6	1,593.2	407.5	1,590.2	0.00	0.00	0.00
12,300.0	90.01	359.58	9,947.6	1,693.2	406.8	1,690.2	0.00	0.00	0.00
12,400.0	90.01	359.58	9,947.6	1,793.2	406.0	1,790.2	0.00	0.00	0.00
12,500.0	90.01	359.58	9,947.6	1,893.2	405.3	1,890.2	0.00	0.00	0.00
12,600.0	90.01	359.58	9,947.5	1,993.2	404.6	1,990.2	0.00	0.00	0.00
12,700.0	90.01	359.58	9,947.5	2,093.2	403.9	2,090.2	0.00	0.00	0.00
12,800.0	90.01	359.58	9,947.5	2,193.2	403.1	2,190.2	0.00	0.00	0.00
12,900.0	90.01	359.58	9,947.5	2,293.2	402.4	2,290.2	0.00	0.00	0.00
13,000.0	90.01	359.58	9,947.5	2,393.2	401.7	2,390.2	0.00	0.00	0.00
13,100.0	90.01	359.58	9,947.4	2,493.2	400.9	2,490.2	0.00	0.00	0.00
13,200.0	90.01	359.58	9,947.4	2,593.2	400.2	2,590.2	0.00	0.00	0.00
13,300.0	90.01	359.58	9,947.4	2,693.2	399.5	2,690.2	0.00	0.00	0.00
13,400.0	90.01	359.58	9,947.4	2,793.2	398.7	2,790.2	0.00	0.00	0.00
13,500.0	90.01	359.58	9,947.4	2,893.2	398.0	2,890.2	0.00	0.00	0.00
13,600.0	90.01	359.58	9,947.3	2,993.2	397.3	2,990.2	0.00	0.00	0.00
13,700.0	90.01	359.58	9,947.3	3,093.2	396.5	3,090.2	0.00	0.00	0.00
13,800.0	90.01	359.58	9,947.3	3,193.1	395.8	3,190.2	0.00	0.00	0.00
13,900.0	90.01	359.58	9,947.3	3,293.1	395.1	3,290.2	0.00	0.00	0.00
14,000.0	90.01	359.58	9,947.3	3,393.1	394.4	3,390.2	0.00	0.00	0.00
14,100.0	90.01	359.58	9,947.2	3,493.1	393.6	3,490.2	0.00	0.00	0.00
14,200.0	90.01	359.58	9,947.2	3,593.1	392.9	3,590.2	0.00	0.00	0.00
14,300.0	90.01	359.58	9,947.2	3,693.1	392.2	3,690.2	0.00	0.00	0.00
14,400.0	90.01	359.58	9,947.2	3,793.1	391.4	3,790.2	0.00	0.00	0.00
14,500.0	90.01	359.58	9,947.2	3,893.1	390.7	3,890.2	0.00	0.00	0.00
14,600.0	90.01	359.58	9,947.1	3,993.1	390.0	3,990.2	0.00	0.00	0.00
14,700.0	90.01	359.58	9,947.1	4,093.1	389.2	4,090.2	0.00	0.00	0.00
14,800.0	90.01	359.58	9,947.1	4,193.1	388.5	4,190.2	0.00	0.00	0.00
14,900.0	90.01	359.58	9,947.1	4,293.1	387.8	4,290.2	0.00	0.00	0.00
15,000.0	90.01	359.58	9,947.1	4,393.1	387.0	4,390.2	0.00	0.00	0.00
15,100.0	90.01	359.58	9,947.0	4,493.1	386.3	4,490.2	0.00	0.00	0.00
15,200.0	90.01	359.58	9,947.0	4,593.1	385.6	4,590.2	0.00	0.00	0.00
15,300.0	90.01	359.58	9,947.0	4,693.1	384.8	4,690.2	0.00	0.00	0.00
15,400.0	90.01	359.58	9,947.0	4,793.1	384.1	4,790.2	0.00	0.00	0.00
15,500.0	90.01	359.58	9,947.0	4,893.1	383.4	4,890.2	0.00	0.00	0.00
15,600.0	90.01	359.58	9,946.9	4,993.1	382.7	4,990.2	0.00	0.00	0.00
15,700.0	90.01	359.58	9,946.9	5,093.1	381.9	5,090.2	0.00	0.00	0.00
15,800.0	90.01	359.58	9,946.9	5,193.1	381.2	5,190.2	0.00	0.00	0.00
15,900.0	90.01	359.58	9,946.9	5,293.1	380.5	5,290.2	0.00	0.00	0.00
16,000.0	90.01	359.58	9,946.9	5,393.1	379.7	5,390.2	0.00	0.00	0.00
16,100.0	90.01	359.58	9,946.8	5,493.1	379.0	5,490.2	0.00	0.00	0.00
16,200.0	90.01	359.58	9,946.8	5,593.1	378.3	5,590.2	0.00	0.00	0.00
16,300.0	90.01	359.58	9,946.8	5,693.1	377.5	5,690.2	0.00	0.00	0.00
16,400.0	90.01	359.58	9,946.8	5,793.1	376.8	5,790.2	0.00	0.00	0.00
16,500.0	90.01	359.58	9,946.8	5,893.1	376.1	5,890.2	0.00	0.00	0.00

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 181H
Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

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)	
16,600.0	90.01	359.58	9,946.7	5,993.1	375.3	5,990.2	0.00	0.00	0.00	
16,700.0	90.01	359.58	9,946.7	6,093.1	374.6	6,090.2	0.00	0.00	0.00	
16,800.0	90.01	359.58	9,946.7	6,193.1	373.9	6,190.2	0.00	0.00	0.00	
16,900.0	90.01	359.58	9,946.7	6,293.1	373.2	6,290.2	0.00	0.00	0.00	
17,000.0	90.01	359.58	9,946.7	6,393.1	372.4	6,390.2	0.00	0.00	0.00	
17,100.0	90.01	359.58	9,946.6	6,493.1	371.7	6,490.2	0.00	0.00	0.00	
17,200.0	90.01	359.58	9,946.6	6,593.1	371.0	6,590.2	0.00	0.00	0.00	
17,300.0	90.01	359.58	9,946.6	6,693.1	370.2	6,690.2	0.00	0.00	0.00	
17,400.0	90.01	359.58	9,946.6	6,793.1	369.5	6,790.2	0.00	0.00	0.00	
17,500.0	90.01	359.58	9,946.5	6,893.0	368.8	6,890.2	0.00	0.00	0.00	
17,600.0	90.01	359.58	9,946.5	6,993.0	368.0	6,990.2	0.00	0.00	0.00	
17,700.0	90.01	359.58	9,946.5	7,093.0	367.3	7,090.2	0.00	0.00	0.00	
17,800.0	90.01	359.58	9,946.5	7,193.0	366.6	7,190.2	0.00	0.00	0.00	
17,900.0	90.01	359.58	9,946.5	7,293.0	365.8	7,290.2	0.00	0.00	0.00	
18,000.0	90.01	359.58	9,946.4	7,393.0	365.1	7,390.2	0.00	0.00	0.00	
18,100.0	90.01	359.58	9,946.4	7,493.0	364.4	7,490.2	0.00	0.00	0.00	
18,200.0	90.01	359.58	9,946.4	7,593.0	363.7	7,590.2	0.00	0.00	0.00	
18,300.0	90.01	359.58	9,946.4	7,693.0	362.9	7,690.2	0.00	0.00	0.00	
18,400.0	90.01	359.58	9,946.4	7,793.0	362.2	7,790.2	0.00	0.00	0.00	
18,500.0	90.01	359.58	9,946.3	7,893.0	361.5	7,890.2	0.00	0.00	0.00	
18,600.0	90.01	359.58	9,946.3	7,993.0	360.7	7,990.2	0.00	0.00	0.00	
18,700.0	90.01	359.58	9,946.3	8,093.0	360.0	8,090.2	0.00	0.00	0.00	
18,800.0	90.01	359.58	9,946.3	8,193.0	359.3	8,190.2	0.00	0.00	0.00	
18,900.0	90.01	359.58	9,946.3	8,293.0	358.5	8,290.2	0.00	0.00	0.00	
19,000.0	90.01	359.58	9,946.2	8,393.0	357.8	8,390.2	0.00	0.00	0.00	
19,100.0	90.01	359.58	9,946.2	8,493.0	357.1	8,490.2	0.00	0.00	0.00	
19,200.0	90.01	359.58	9,946.2	8,593.0	356.3	8,590.2	0.00	0.00	0.00	
19,300.0	90.01	359.58	9,946.2	8,693.0	355.6	8,690.2	0.00	0.00	0.00	
19,400.0	90.01	359.58	9,946.2	8,793.0	354.9	8,790.2	0.00	0.00	0.00	
19,500.0	90.01	359.58	9,946.1	8,893.0	354.2	8,890.2	0.00	0.00	0.00	
19,600.0	90.01	359.58	9,946.1	8,993.0	353.4	8,990.2	0.00	0.00	0.00	
19,700.0	90.01	359.58	9,946.1	9,093.0	352.7	9,090.2	0.00	0.00	0.00	
19,800.0	90.01	359.58	9,946.1	9,193.0	352.0	9,190.2	0.00	0.00	0.00	
19,900.0	90.01	359.58	9,946.1	9,293.0	351.2	9,290.2	0.00	0.00	0.00	
20,000.0	90.01	359.58	9,946.0	9,393.0	350.5	9,390.2	0.00	0.00	0.00	
20,100.0	90.01	359.58	9,946.0	9,493.0	349.8	9,490.2	0.00	0.00	0.00	
20,205.0	90.01	359.58	9,946.0	9,598.0	349.0	9,595.2	0.00	0.00	0.00	
20,275.0	90.01	359.58	9,946.0	9,668.0	348.5	9,665.2	0.00	0.00	0.00	
TD at 20275.0										

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 181H
Company:	Tap Rock Operating, LLC.	TVD Reference:	RKB @ 3561.0usft (26' RKB)
Project:	Lea County, NM (NAD83)	MD Reference:	RKB @ 3561.0usft (26' RKB)
Site:	Apollo State COM	North Reference:	Grid
Well:	181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
LTP_A.181H	0.00	0.00	9,946.0	9,598.0	349.0	446,267.00	773,493.00	32° 13' 28.685 N	103° 34' 57.320 W
- plan hits target center									
- Point									
PBHL_A.181H	0.00	0.01	9,946.0	9,668.0	349.0	446,337.00	773,493.00	32° 13' 29.378 N	103° 34' 57.315 W
- plan misses target center by 0.5usft at 20275.0usft MD (9946.0 TVD, 9668.0 N, 348.5 E)									
- Point									
FTP_A.181H	0.00	0.00	9,948.0	-761.0	425.0	435,908.00	773,569.00	32° 11' 46.175 N	103° 34' 57.278 W
- plan misses target center by 200.5usft at 9931.3usft MD (9815.5 TVD, -639.2 N, 336.5 E)									
- Point									

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,158.0	1,158.0	Rustler Anhydrite				
1,649.2	1,649.0	Top Salt				
4,928.0	4,904.0	Base Salt				
5,148.6	5,123.0	Delaware Mountain Gp				
5,169.8	5,144.0	Lamar				
5,211.1	5,185.0	Bell Canyon				
5,243.3	5,217.0	Ramsey Sand				
6,201.5	6,168.0	Cherry Canyon				
7,690.6	7,646.0	Brushy Canyon				
9,166.7	9,113.0	Bone Spring Lime				
9,270.8	9,217.0	Upper Avalon				
9,495.9	9,442.0	Middle Avalon				
9,924.2	9,811.0	Lower Avalon				

Plan Annotations					
Measured Depth	Vertical Depth	Local Coordinates			
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,400.0	1,400.0	0.0	0.0	Start Build 1.50	
1,866.7	1,865.5	-26.8	9.7	Start 6900.0 hold at 1866.7 MD	
8,766.7	8,714.1	-816.9	297.3	Start Drop -1.50	
9,233.3	9,179.6	-843.7	307.1	Start 195.4 hold at 9233.3 MD	
9,428.8	9,375.0	-843.7	307.1	Start Build 10.00	
10,328.9	9,948.0	-276.5	388.8	Start DLS 2.00 TFO -89.99	
10,759.9	9,947.9	153.1	418.0	Start 9445.2 hold at 10759.9 MD	
20,275.0	9,946.0	9,598.0	349.0	TD at 20275.0	

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

CONDITIONS

Action 20084

CONDITIONS OF APPROVAL

Operator: TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	523 Park Point Drive	OGRID: 372043	Action Number: 20084	Action Type: C-103A
OCD Reviewer pkautz	Condition None			