

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. 33-025-47425
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 [96674] TRIPLE X; BONE SPRING, WEST
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3535'

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> , 863' feet from the <u>SOUTH</u> line and 570' 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.) 3535'	

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 requests to change the BHL to 30' FNL 1040' FWL, Section 16, T24S-R33E.

In addition, the original APD noted that Tap Rock would drill from 9-5/8" shoe to KOP with 8-3/4" bit and then downsize to an 8-1/2" bit for the curve and lateral. Tap Rock requests to downsize the curve and lateral to 6-3/4" bit rather than 8-1/2" bit.

Also, Tap Rock requests to change the unit size from the previously permitted 320 acre unit to a 640 acre unit.

See attached updated plat and directional/drill plans.

Interval	Hole Size	Casing OD	Casing Weight	Casing Grade	Set Depth	Sacks of Cement	Planned TOC	Mud Type
Surface	17.5	13.375	54.5	J-55	1183	1026	0	Fresh Water
Intermediate	12.25	9.625	40	J-55	5255	1340	0	Brine
Production	8.75	5.5	20	P-110	9455	1320	5055	Cut Brine
	6.75	5.5	20	P-110	20265			

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

SIGNATURE  TITLE Regulatory Analyst DATE 12/30/2021

Type or print name Jeff Trlica E-mail address: jtrlica@taprock.com PHONE: 720-772-5910

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

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
Phone: (575) 748-1283 Fax: (575) 748-9720
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1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT

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	
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁶ Well Number 181H
		⁹ Elevation 3535'

¹⁰Surface Location

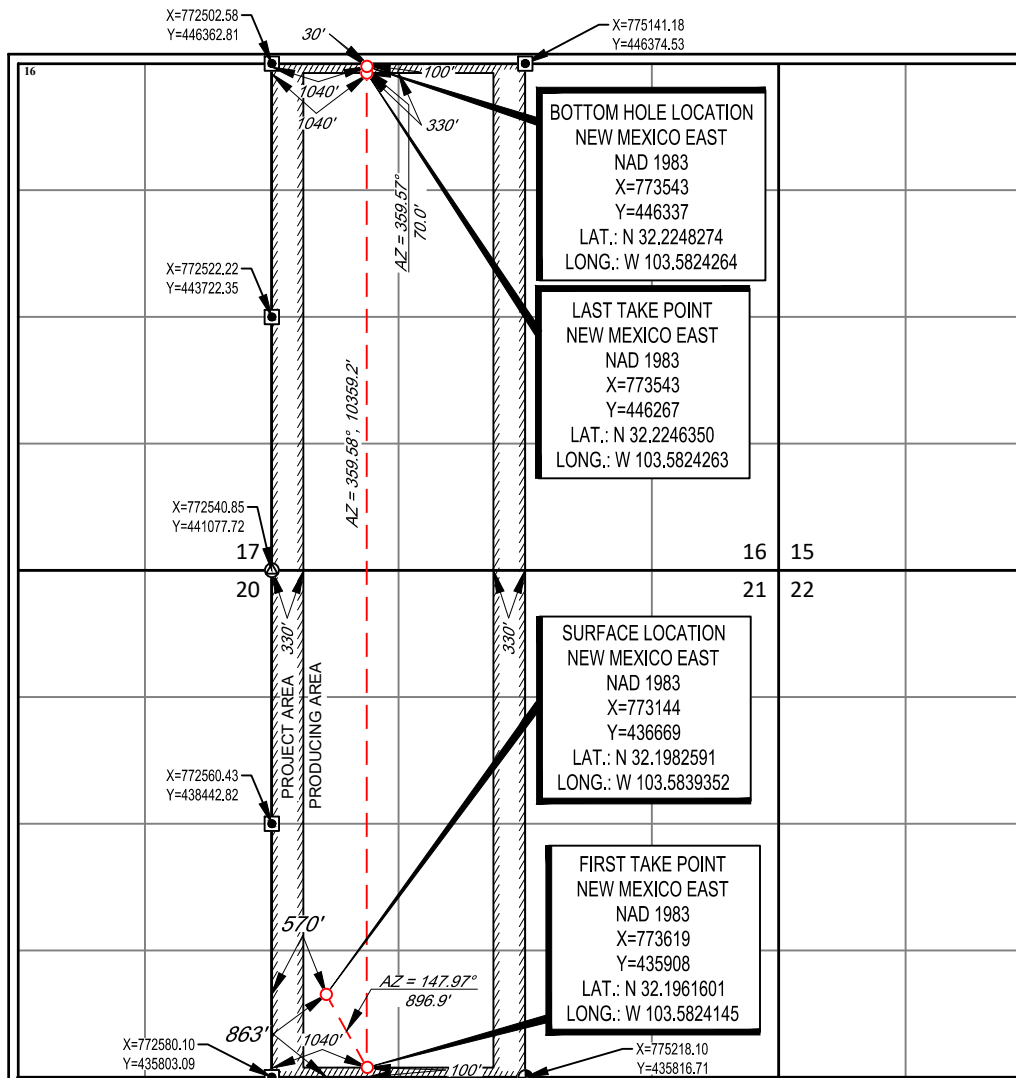
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	21	24-S	33-E	-	863'	SOUTH	570'	WEST	LEA

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	1040'	WEST	LEA

¹² Dedicated Acres	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.

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

¹⁷OPERATOR CERTIFICATION

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

12/30/2021

Signature

Date

Jeff Trlica

Printed Name

jtrlica@taprk.com

E-mail Address

¹⁸SURVEYOR CERTIFICATION

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

11/30/2020

Date of Survey

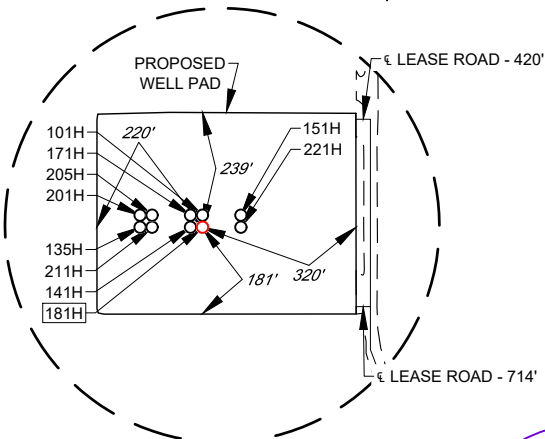
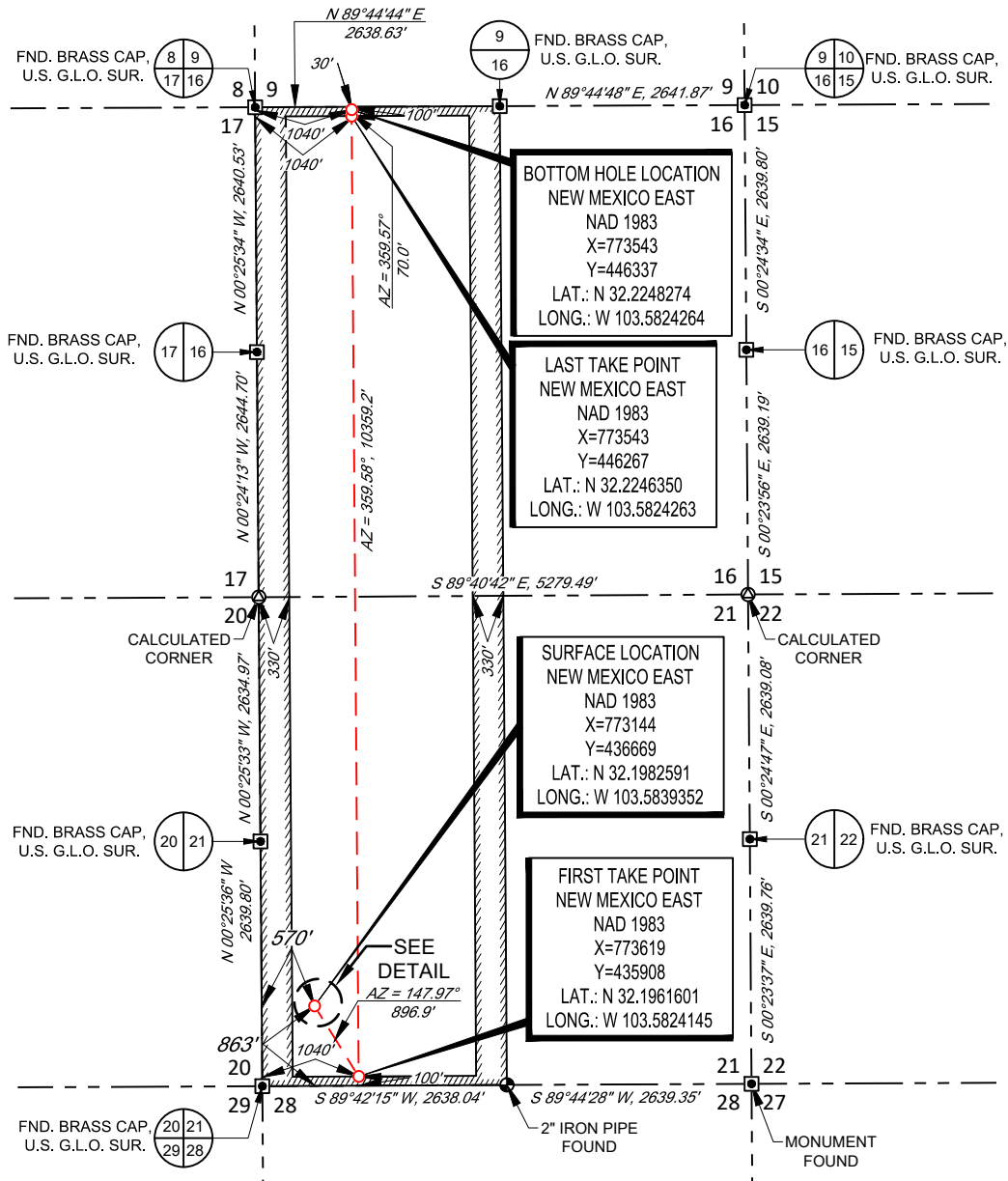
Signature and Seal of Professional Surveyor

RAMON A. DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

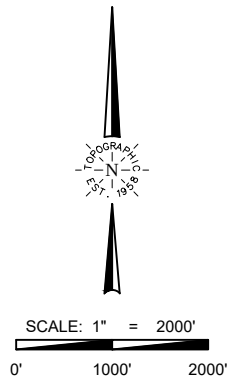
Certificate Number

TAP
ROCK
EXHIBIT 2A

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



DETAIL VIEW
SCALE: 1" = 400'

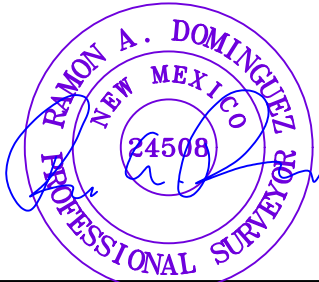


LEASE NAME & WELL NO.: APOLLO STATE COM 181H

SECTION 21 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 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 LEASE RD. ±714 FEET TO A POINT ±360
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.



Ramon A. Dominguez, P.S. No. 24508
February 25, 2021

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



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Apollo State Com) Sec-21_T-24-S_R-33-E
Apollo State Com #181H**

OWB

Plan: Plan #1

Standard Planning Report

22 December, 2021





Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #181H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3561.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3561.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Project	Lea County, NM (NAD 83 NME)		
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) Sec-21_T-24-S_R-33-E		
Site Position:		Northing:	436,694.00 usft
From:	Map	Easting:	776,122.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 11' 53.775 N
		Longitude:	103° 34' 27.504 W
		Grid Convergence:	0.40 °

Well	Apollo State Com #181H		
Well Position	+N/-S	-25.0 usft	Northing:
	+E/-W	-2,978.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	12/20/21	6.47	59.98	47,457.42895078

Design	Plan #1			
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 Survey Tool Program	Date	12/22/21		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	20,265.8	Plan #1 (OWB)	MWD
			OWSG MWD - Standard	

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	
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,317.0	11.17	153.75	2,310.0	-97.3	48.0	1.00	1.00	0.00	153.75	
5,864.3	11.17	153.75	5,790.0	-713.7	352.0	0.00	0.00	0.00	0.00	
6,981.3	0.00	0.00	6,900.0	-811.0	400.0	1.00	-1.00	0.00	180.00	
9,456.3	0.00	0.00	9,375.0	-811.0	400.0	0.00	0.00	0.00	0.00	
10,356.4	90.01	5.60	9,948.0	-240.7	455.9	10.00	10.00	0.00	5.60	
10,657.5	90.01	359.58	9,947.9	59.9	469.5	2.00	0.00	-2.00	-90.00	
20,265.8	90.01	359.58	9,946.3	9,668.0	399.0	0.00	0.00	0.00	0.00	PBHL (Apollo State



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3561.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	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	1.00	153.75	1,300.0	-0.8	0.4	-0.8	1.00	1.00	0.00
1,400.0	2.00	153.75	1,400.0	-3.1	1.5	-3.1	1.00	1.00	0.00
1,500.0	3.00	153.75	1,499.9	-7.0	3.5	-7.1	1.00	1.00	0.00
1,600.0	4.00	153.75	1,599.7	-12.5	6.2	-12.6	1.00	1.00	0.00
1,700.0	5.00	153.75	1,699.4	-19.6	9.6	-19.6	1.00	1.00	0.00
1,800.0	6.00	153.75	1,798.9	-28.1	13.9	-28.3	1.00	1.00	0.00
1,900.0	7.00	153.75	1,898.3	-38.3	18.9	-38.4	1.00	1.00	0.00
2,000.0	8.00	153.75	1,997.4	-50.0	24.7	-50.2	1.00	1.00	0.00
2,100.0	9.00	153.75	2,096.3	-63.3	31.2	-63.5	1.00	1.00	0.00
2,200.0	10.00	153.75	2,194.9	-78.1	38.5	-78.3	1.00	1.00	0.00
2,300.0	11.00	153.75	2,293.3	-94.4	46.6	-94.7	1.00	1.00	0.00
2,317.0	11.17	153.75	2,310.0	-97.3	48.0	-97.7	1.00	1.00	0.00
2,400.0	11.17	153.75	2,391.4	-111.8	55.1	-112.2	0.00	0.00	0.00
2,500.0	11.17	153.75	2,489.5	-129.1	63.7	-129.6	0.00	0.00	0.00
2,600.0	11.17	153.75	2,587.6	-146.5	72.3	-147.0	0.00	0.00	0.00
2,700.0	11.17	153.75	2,685.7	-163.9	80.8	-164.5	0.00	0.00	0.00
2,800.0	11.17	153.75	2,783.8	-181.3	89.4	-181.9	0.00	0.00	0.00
2,900.0	11.17	153.75	2,881.9	-198.6	98.0	-199.3	0.00	0.00	0.00
3,000.0	11.17	153.75	2,980.0	-216.0	106.5	-216.8	0.00	0.00	0.00
3,100.0	11.17	153.75	3,078.1	-233.4	115.1	-234.2	0.00	0.00	0.00
3,200.0	11.17	153.75	3,176.2	-250.8	123.7	-251.7	0.00	0.00	0.00
3,300.0	11.17	153.75	3,274.3	-268.1	132.2	-269.1	0.00	0.00	0.00
3,400.0	11.17	153.75	3,372.4	-285.5	140.8	-286.5	0.00	0.00	0.00
3,500.0	11.17	153.75	3,470.5	-302.9	149.4	-304.0	0.00	0.00	0.00
3,600.0	11.17	153.75	3,568.6	-320.3	158.0	-321.4	0.00	0.00	0.00
3,700.0	11.17	153.75	3,666.7	-337.6	166.5	-338.8	0.00	0.00	0.00
3,800.0	11.17	153.75	3,764.8	-355.0	175.1	-356.3	0.00	0.00	0.00
3,900.0	11.17	153.75	3,862.9	-372.4	183.7	-373.7	0.00	0.00	0.00
4,000.0	11.17	153.75	3,961.1	-389.7	192.2	-391.1	0.00	0.00	0.00
4,100.0	11.17	153.75	4,059.2	-407.1	200.8	-408.6	0.00	0.00	0.00
4,200.0	11.17	153.75	4,157.3	-424.5	209.4	-426.0	0.00	0.00	0.00
4,300.0	11.17	153.75	4,255.4	-441.9	217.9	-443.5	0.00	0.00	0.00
4,400.0	11.17	153.75	4,353.5	-459.2	226.5	-460.9	0.00	0.00	0.00
4,500.0	11.17	153.75	4,451.6	-476.6	235.1	-478.3	0.00	0.00	0.00
4,600.0	11.17	153.75	4,549.7	-494.0	243.6	-495.8	0.00	0.00	0.00
4,700.0	11.17	153.75	4,647.8	-511.4	252.2	-513.2	0.00	0.00	0.00
4,800.0	11.17	153.75	4,745.9	-528.7	260.8	-530.6	0.00	0.00	0.00
4,900.0	11.17	153.75	4,844.0	-546.1	269.4	-548.1	0.00	0.00	0.00
5,000.0	11.17	153.75	4,942.1	-563.5	277.9	-565.5	0.00	0.00	0.00
5,100.0	11.17	153.75	5,040.2	-580.9	286.5	-582.9	0.00	0.00	0.00
5,200.0	11.17	153.75	5,138.3	-598.2	295.1	-600.4	0.00	0.00	0.00



Intrepid Planning Report



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Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,300.0	11.17	153.75	5,236.4	-615.6	303.6	-617.8	0.00	0.00	0.00
5,400.0	11.17	153.75	5,334.5	-633.0	312.2	-635.3	0.00	0.00	0.00
5,500.0	11.17	153.75	5,432.6	-650.4	320.8	-652.7	0.00	0.00	0.00
5,600.0	11.17	153.75	5,530.7	-667.7	329.3	-670.1	0.00	0.00	0.00
5,700.0	11.17	153.75	5,628.8	-685.1	337.9	-687.6	0.00	0.00	0.00
5,800.0	11.17	153.75	5,727.0	-702.5	346.5	-705.0	0.00	0.00	0.00
5,864.3	11.17	153.75	5,790.0	-713.7	352.0	-716.2	0.00	0.00	0.00
5,900.0	10.81	153.75	5,825.1	-719.8	355.0	-722.3	1.00	-1.00	0.00
6,000.0	9.81	153.75	5,923.5	-735.8	362.9	-738.5	1.00	-1.00	0.00
6,100.0	8.81	153.75	6,022.1	-750.3	370.1	-753.0	1.00	-1.00	0.00
6,200.0	7.81	153.75	6,121.1	-763.3	376.5	-766.0	1.00	-1.00	0.00
6,300.0	6.81	153.75	6,220.3	-774.7	382.1	-777.5	1.00	-1.00	0.00
6,400.0	5.81	153.75	6,319.7	-784.6	387.0	-787.4	1.00	-1.00	0.00
6,500.0	4.81	153.75	6,419.2	-792.9	391.1	-795.7	1.00	-1.00	0.00
6,600.0	3.81	153.75	6,519.0	-799.6	394.4	-802.5	1.00	-1.00	0.00
6,700.0	2.81	153.75	6,618.8	-804.8	396.9	-807.7	1.00	-1.00	0.00
6,800.0	1.81	153.75	6,718.7	-808.4	398.7	-811.3	1.00	-1.00	0.00
6,900.0	0.81	153.75	6,818.7	-810.5	399.7	-813.4	1.00	-1.00	0.00
6,981.3	0.00	0.00	6,900.0	-811.0	400.0	-813.9	1.00	-1.00	0.00
7,000.0	0.00	0.00	6,918.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,100.0	0.00	0.00	7,018.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,200.0	0.00	0.00	7,118.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,300.0	0.00	0.00	7,218.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,400.0	0.00	0.00	7,318.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,500.0	0.00	0.00	7,418.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,600.0	0.00	0.00	7,518.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,618.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,718.7	-811.0	400.0	-813.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,818.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,918.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,100.0	0.00	0.00	8,018.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,118.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,300.0	0.00	0.00	8,218.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,318.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,418.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,518.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,618.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,718.7	-811.0	400.0	-813.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,818.7	-811.0	400.0	-813.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,918.7	-811.0	400.0	-813.9	0.00	0.00	0.00
9,100.0	0.00	0.00	9,018.7	-811.0	400.0	-813.9	0.00	0.00	0.00
9,200.0	0.00	0.00	9,118.7	-811.0	400.0	-813.9	0.00	0.00	0.00
9,300.0	0.00	0.00	9,218.7	-811.0	400.0	-813.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,318.7	-811.0	400.0	-813.9	0.00	0.00	0.00
9,456.3	0.00	0.00	9,375.0	-811.0	400.0	-813.9	0.00	0.00	0.00
9,500.0	4.37	5.60	9,418.6	-809.3	400.2	-812.3	10.00	10.00	0.00
9,550.0	9.37	5.60	9,468.3	-803.4	400.7	-806.3	10.00	10.00	0.00
9,600.0	14.37	5.60	9,517.2	-793.2	401.7	-796.1	10.00	10.00	0.00
9,650.0	19.37	5.60	9,565.0	-778.7	403.2	-781.7	10.00	10.00	0.00
9,700.0	24.37	5.60	9,611.4	-760.2	405.0	-763.2	10.00	10.00	0.00
9,750.0	29.37	5.60	9,656.0	-737.7	407.2	-740.7	10.00	10.00	0.00
9,800.0	34.37	5.60	9,698.4	-711.5	409.8	-714.4	10.00	10.00	0.00
9,850.0	39.37	5.60	9,738.4	-681.6	412.7	-684.6	10.00	10.00	0.00
9,900.0	44.37	5.60	9,775.6	-648.4	415.9	-651.4	10.00	10.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #181H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3561.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3561.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,950.0	49.37	5.60	9,809.8	-612.1	419.5	-615.2	10.00	10.00	0.00
10,000.0	54.37	5.60	9,840.7	-573.0	423.3	-576.1	10.00	10.00	0.00
10,050.0	59.37	5.60	9,868.0	-531.3	427.4	-534.4	10.00	10.00	0.00
10,100.0	64.37	5.60	9,891.6	-487.5	431.7	-490.6	10.00	10.00	0.00
10,150.0	69.37	5.60	9,911.2	-441.7	436.2	-444.9	10.00	10.00	0.00
10,200.0	74.37	5.60	9,926.8	-394.4	440.8	-397.7	10.00	10.00	0.00
10,250.0	79.37	5.60	9,938.1	-346.0	445.6	-349.2	10.00	10.00	0.00
10,300.0	84.37	5.60	9,945.2	-296.7	450.4	-300.0	10.00	10.00	0.00
10,350.0	89.37	5.60	9,947.9	-247.1	455.3	-250.4	10.00	10.00	0.00
10,356.4	90.01	5.60	9,948.0	-240.7	455.9	-244.0	10.00	10.00	0.00
10,400.0	90.01	4.73	9,948.0	-197.3	459.8	-200.6	2.00	0.00	-2.00
10,500.0	90.01	2.73	9,947.9	-97.5	466.3	-100.9	2.00	0.00	-2.00
10,600.0	90.01	0.73	9,947.9	2.5	469.4	-1.0	2.00	0.00	-2.00
10,657.5	90.01	359.58	9,947.9	59.9	469.5	56.5	2.00	0.00	-2.00
10,700.0	90.01	359.58	9,947.9	102.5	469.2	99.0	0.00	0.00	0.00
10,800.0	90.01	359.58	9,947.9	202.4	468.5	199.0	0.00	0.00	0.00
10,900.0	90.01	359.58	9,947.9	302.4	467.7	299.0	0.00	0.00	0.00
11,000.0	90.01	359.58	9,947.8	402.4	467.0	399.0	0.00	0.00	0.00
11,100.0	90.01	359.58	9,947.8	502.4	466.3	499.0	0.00	0.00	0.00
11,200.0	90.01	359.58	9,947.8	602.4	465.5	599.0	0.00	0.00	0.00
11,300.0	90.01	359.58	9,947.8	702.4	464.8	699.0	0.00	0.00	0.00
11,400.0	90.01	359.58	9,947.8	802.4	464.1	799.0	0.00	0.00	0.00
11,500.0	90.01	359.58	9,947.8	902.4	463.3	899.0	0.00	0.00	0.00
11,600.0	90.01	359.58	9,947.8	1,002.4	462.6	999.0	0.00	0.00	0.00
11,700.0	90.01	359.58	9,947.7	1,102.4	461.9	1,099.0	0.00	0.00	0.00
11,800.0	90.01	359.58	9,947.7	1,202.4	461.1	1,199.0	0.00	0.00	0.00
11,900.0	90.01	359.58	9,947.7	1,302.4	460.4	1,299.0	0.00	0.00	0.00
12,000.0	90.01	359.58	9,947.7	1,402.4	459.7	1,399.0	0.00	0.00	0.00
12,100.0	90.01	359.58	9,947.7	1,502.4	458.9	1,499.0	0.00	0.00	0.00
12,200.0	90.01	359.58	9,947.7	1,602.4	458.2	1,599.0	0.00	0.00	0.00
12,300.0	90.01	359.58	9,947.6	1,702.4	457.5	1,699.0	0.00	0.00	0.00
12,400.0	90.01	359.58	9,947.6	1,802.4	456.7	1,799.0	0.00	0.00	0.00
12,500.0	90.01	359.58	9,947.6	1,902.4	456.0	1,899.0	0.00	0.00	0.00
12,600.0	90.01	359.58	9,947.6	2,002.4	455.3	1,999.0	0.00	0.00	0.00
12,700.0	90.01	359.58	9,947.6	2,102.4	454.5	2,099.0	0.00	0.00	0.00
12,800.0	90.01	359.58	9,947.6	2,202.4	453.8	2,199.0	0.00	0.00	0.00
12,900.0	90.01	359.58	9,947.5	2,302.4	453.1	2,299.0	0.00	0.00	0.00
13,000.0	90.01	359.58	9,947.5	2,402.4	452.3	2,399.0	0.00	0.00	0.00
13,100.0	90.01	359.58	9,947.5	2,502.4	451.6	2,499.0	0.00	0.00	0.00
13,200.0	90.01	359.58	9,947.5	2,602.4	450.9	2,599.0	0.00	0.00	0.00
13,300.0	90.01	359.58	9,947.5	2,702.4	450.1	2,699.0	0.00	0.00	0.00
13,400.0	90.01	359.58	9,947.5	2,802.4	449.4	2,799.0	0.00	0.00	0.00
13,500.0	90.01	359.58	9,947.4	2,902.4	448.7	2,899.0	0.00	0.00	0.00
13,600.0	90.01	359.58	9,947.4	3,002.4	447.9	2,999.0	0.00	0.00	0.00
13,700.0	90.01	359.58	9,947.4	3,102.4	447.2	3,099.0	0.00	0.00	0.00
13,800.0	90.01	359.58	9,947.4	3,202.4	446.5	3,199.0	0.00	0.00	0.00
13,900.0	90.01	359.58	9,947.4	3,302.4	445.7	3,299.0	0.00	0.00	0.00
14,000.0	90.01	359.58	9,947.4	3,402.4	445.0	3,399.0	0.00	0.00	0.00
14,100.0	90.01	359.58	9,947.3	3,502.4	444.3	3,499.0	0.00	0.00	0.00
14,200.0	90.01	359.58	9,947.3	3,602.4	443.5	3,599.0	0.00	0.00	0.00
14,300.0	90.01	359.58	9,947.3	3,702.4	442.8	3,699.0	0.00	0.00	0.00
14,400.0	90.01	359.58	9,947.3	3,802.4	442.0	3,799.0	0.00	0.00	0.00
14,500.0	90.01	359.58	9,947.3	3,902.3	441.3	3,899.0	0.00	0.00	0.00
14,600.0	90.01	359.58	9,947.3	4,002.3	440.6	3,999.0	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #181H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3561.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3561.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #181H	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)
14,700.0	90.01	359.58	9,947.2	4,102.3	439.8	4,099.0	0.00	0.00	0.00
14,800.0	90.01	359.58	9,947.2	4,202.3	439.1	4,199.0	0.00	0.00	0.00
14,900.0	90.01	359.58	9,947.2	4,302.3	438.4	4,299.0	0.00	0.00	0.00
15,000.0	90.01	359.58	9,947.2	4,402.3	437.6	4,399.0	0.00	0.00	0.00
15,100.0	90.01	359.58	9,947.2	4,502.3	436.9	4,499.0	0.00	0.00	0.00
15,200.0	90.01	359.58	9,947.2	4,602.3	436.2	4,599.0	0.00	0.00	0.00
15,300.0	90.01	359.58	9,947.1	4,702.3	435.4	4,699.0	0.00	0.00	0.00
15,400.0	90.01	359.58	9,947.1	4,802.3	434.7	4,799.0	0.00	0.00	0.00
15,500.0	90.01	359.58	9,947.1	4,902.3	434.0	4,899.0	0.00	0.00	0.00
15,600.0	90.01	359.58	9,947.1	5,002.3	433.2	4,999.0	0.00	0.00	0.00
15,700.0	90.01	359.58	9,947.1	5,102.3	432.5	5,099.0	0.00	0.00	0.00
15,800.0	90.01	359.58	9,947.1	5,202.3	431.8	5,199.0	0.00	0.00	0.00
15,900.0	90.01	359.58	9,947.0	5,302.3	431.0	5,299.0	0.00	0.00	0.00
16,000.0	90.01	359.58	9,947.0	5,402.3	430.3	5,399.0	0.00	0.00	0.00
16,100.0	90.01	359.58	9,947.0	5,502.3	429.6	5,499.0	0.00	0.00	0.00
16,200.0	90.01	359.58	9,947.0	5,602.3	428.8	5,599.0	0.00	0.00	0.00
16,300.0	90.01	359.58	9,947.0	5,702.3	428.1	5,699.0	0.00	0.00	0.00
16,400.0	90.01	359.58	9,947.0	5,802.3	427.4	5,799.0	0.00	0.00	0.00
16,500.0	90.01	359.58	9,946.9	5,902.3	426.6	5,899.0	0.00	0.00	0.00
16,600.0	90.01	359.58	9,946.9	6,002.3	425.9	5,999.0	0.00	0.00	0.00
16,700.0	90.01	359.58	9,946.9	6,102.3	425.2	6,099.0	0.00	0.00	0.00
16,800.0	90.01	359.58	9,946.9	6,202.3	424.4	6,199.0	0.00	0.00	0.00
16,900.0	90.01	359.58	9,946.9	6,302.3	423.7	6,299.0	0.00	0.00	0.00
17,000.0	90.01	359.58	9,946.9	6,402.3	423.0	6,399.0	0.00	0.00	0.00
17,100.0	90.01	359.58	9,946.8	6,502.3	422.2	6,499.0	0.00	0.00	0.00
17,200.0	90.01	359.58	9,946.8	6,602.3	421.5	6,599.0	0.00	0.00	0.00
17,300.0	90.01	359.58	9,946.8	6,702.3	420.8	6,699.0	0.00	0.00	0.00
17,400.0	90.01	359.58	9,946.8	6,802.3	420.0	6,799.0	0.00	0.00	0.00
17,500.0	90.01	359.58	9,946.8	6,902.3	419.3	6,899.0	0.00	0.00	0.00
17,600.0	90.01	359.58	9,946.8	7,002.3	418.6	6,999.0	0.00	0.00	0.00
17,700.0	90.01	359.58	9,946.7	7,102.3	417.8	7,099.0	0.00	0.00	0.00
17,800.0	90.01	359.58	9,946.7	7,202.3	417.1	7,199.0	0.00	0.00	0.00
17,900.0	90.01	359.58	9,946.7	7,302.3	416.4	7,299.0	0.00	0.00	0.00
18,000.0	90.01	359.58	9,946.7	7,402.3	415.6	7,399.0	0.00	0.00	0.00
18,100.0	90.01	359.58	9,946.7	7,502.3	414.9	7,499.0	0.00	0.00	0.00
18,200.0	90.01	359.58	9,946.7	7,602.2	414.2	7,599.0	0.00	0.00	0.00
18,300.0	90.01	359.58	9,946.6	7,702.2	413.4	7,699.0	0.00	0.00	0.00
18,400.0	90.01	359.58	9,946.6	7,802.2	412.7	7,799.0	0.00	0.00	0.00
18,500.0	90.01	359.58	9,946.6	7,902.2	412.0	7,899.0	0.00	0.00	0.00
18,600.0	90.01	359.58	9,946.6	8,002.2	411.2	7,999.0	0.00	0.00	0.00
18,700.0	90.01	359.58	9,946.6	8,102.2	410.5	8,099.0	0.00	0.00	0.00
18,800.0	90.01	359.58	9,946.6	8,202.2	409.8	8,199.0	0.00	0.00	0.00
18,900.0	90.01	359.58	9,946.5	8,302.2	409.0	8,299.0	0.00	0.00	0.00
19,000.0	90.01	359.58	9,946.5	8,402.2	408.3	8,399.0	0.00	0.00	0.00
19,100.0	90.01	359.58	9,946.5	8,502.2	407.6	8,499.0	0.00	0.00	0.00
19,200.0	90.01	359.58	9,946.5	8,602.2	406.8	8,599.0	0.00	0.00	0.00
19,300.0	90.01	359.58	9,946.5	8,702.2	406.1	8,699.0	0.00	0.00	0.00
19,400.0	90.01	359.58	9,946.5	8,802.2	405.4	8,799.0	0.00	0.00	0.00
19,500.0	90.01	359.58	9,946.4	8,902.2	404.6	8,899.0	0.00	0.00	0.00
19,600.0	90.01	359.58	9,946.4	9,002.2	403.9	8,999.0	0.00	0.00	0.00
19,700.0	90.01	359.58	9,946.4	9,102.2	403.2	9,099.0	0.00	0.00	0.00
19,800.0	90.01	359.58	9,946.4	9,202.2	402.4	9,199.0	0.00	0.00	0.00
19,900.0	90.01	359.58	9,946.4	9,302.2	401.7	9,299.0	0.00	0.00	0.00
20,000.0	90.01	359.58	9,946.4	9,402.2	401.0	9,399.0	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #181H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3561.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3561.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #181H	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)	
20,100.0	90.01	359.58	9,946.3	9,502.2	400.2	9,499.0	0.00	0.00	0.00	
20,200.0	90.01	359.58	9,946.3	9,602.2	399.5	9,599.0	0.00	0.00	0.00	
20,265.8	90.01	359.58	9,946.3	9,668.0	399.0	9,664.8	0.00	0.00	0.00	

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
PBHL (Apollo State C	- plan hits target center	-0.01	359.58	9,946.3	9,668.0	399.0	446,337.00	773,543.00	32° 13' 29.374 N	103° 34' 56.733 W
	- Rectangle (sides W100.0 H10,429.0 D30.0)									
LTP (Apollo State Cor	- plan misses target center by 0.5usft at 20195.8usft MD (9946.3 TVD, 9598.0 N, 399.5 E)	0.00	0.00	9,946.3	9,598.0	399.0	446,267.00	773,543.00	32° 13' 28.682 N	103° 34' 56.738 W
	- Point									
FTP (Apollo State Cor	- plan misses target center by 210.0usft at 9940.3usft MD (9803.4 TVD, -619.4 N, 418.8 E)	0.00	0.00	9,948.0	-761.0	475.0	435,908.00	773,619.00	32° 11' 46.172 N	103° 34' 56.696 W
	- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,158.0	1,158.0	Rustler Anhydrite				
1,649.5	1,649.0	Top Salt				
4,961.2	4,904.0	Base Salt				
5,184.4	5,123.0	Delaware Mountain Gp				
5,205.8	5,144.0	Lamar				
5,247.6	5,185.0	Bell Canyon				
5,280.2	5,217.0	Ramsey Sand				
6,247.3	6,168.0	Cherry Canyon				
7,727.3	7,646.0	Brushy Canyon				
9,194.3	9,113.0	Bone Spring Lime				
9,298.3	9,217.0	Upper Avalon				
9,523.5	9,442.0	Middle Avalon				
9,951.8	9,811.0	Lower Avalon				



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Apollo State Com #181H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3561.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3561.0usft
Site:	(Apollo State Com) Sec-21_T-24-S_R-33-E	North Reference:	Grid
Well:	Apollo State Com #181H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,200.0	1,200.0	0.0	0.0	NUDGE - Build 1.00
2,317.0	2,310.0	-97.3	48.0	HOLD - 3547.3 at 2317.0 MD
5,864.3	5,790.0	-713.7	352.0	DROP - -1.00
6,981.3	6,900.0	-811.0	400.0	HOLD - 2475.0 at 6981.3 MD
9,456.3	9,375.0	-811.0	400.0	KOP - Build 10.00
10,356.4	9,948.0	-240.7	455.9	EOC/TRN - DLS 2.00 TFO -89.99
10,657.5	9,947.9	59.9	469.5	Start 9608.4 hold at 10657.5 MD
20,265.8	9,946.3	9,668.0	399.0	TD at 20265.8

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

CONDITIONS

Action 69688

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 69688
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	1/3/2022