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 294843

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

1. Operator Name and Address	2. OGRID Number
TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	372043
	3. API Number 30-025-48664

4. Property Code	5. Property Name	6. Well No.
325410	HYPERION STATE	142H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
C	20	24S	33E	C	608	N	1945	W	Lea

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
N	20	24S	33E	N	30	S	1652	W	Lea

9. Pool Information

TRIPLE X;BONE SPRING, WEST	96674

Additional Well Information

11. Work Type	12. Well Type	13. Cable/Rotary	14. Lease Type	15. Ground Level Elevation
New Well	OIL		State	3543
16. Multiple	**17. Proposed Depth**	**18. Formation**	**19. Contractor**	**20. Spud Date**
N	15456	Bone Spring		12/31/2021
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	17.5	13.375	54.5	1200	1200	0
Int1	12.25	9.625	40	5200	1400	0
Prod	8.5	5.5	20	15456	2000	4200

Casing/Cement Program: Additional Comments

Tap Rock will drill 8.75" hole down to KOP of ~10,800' from 9-5/8" csg shoe then drill 8.5" curve and lateral.

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:	4/16/2021	Expiration Date: 4/16/2023
Date:	4/14/2021 Phone: 720-360-4028	Conditions of Approval Attached		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

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

☐ **AMENDED REPORT**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
	96674	TRIPLE X;BONE SPRING, WEST

[4]Property Code	[5]Property Name	[6]Well Number
	HYPERION STATE	142H

[7]OGRID No.	[8]Operator Name	[9]Elevation
#372043	TAP ROCK OPERATING, LLC.	3543'

[10]Surface Location

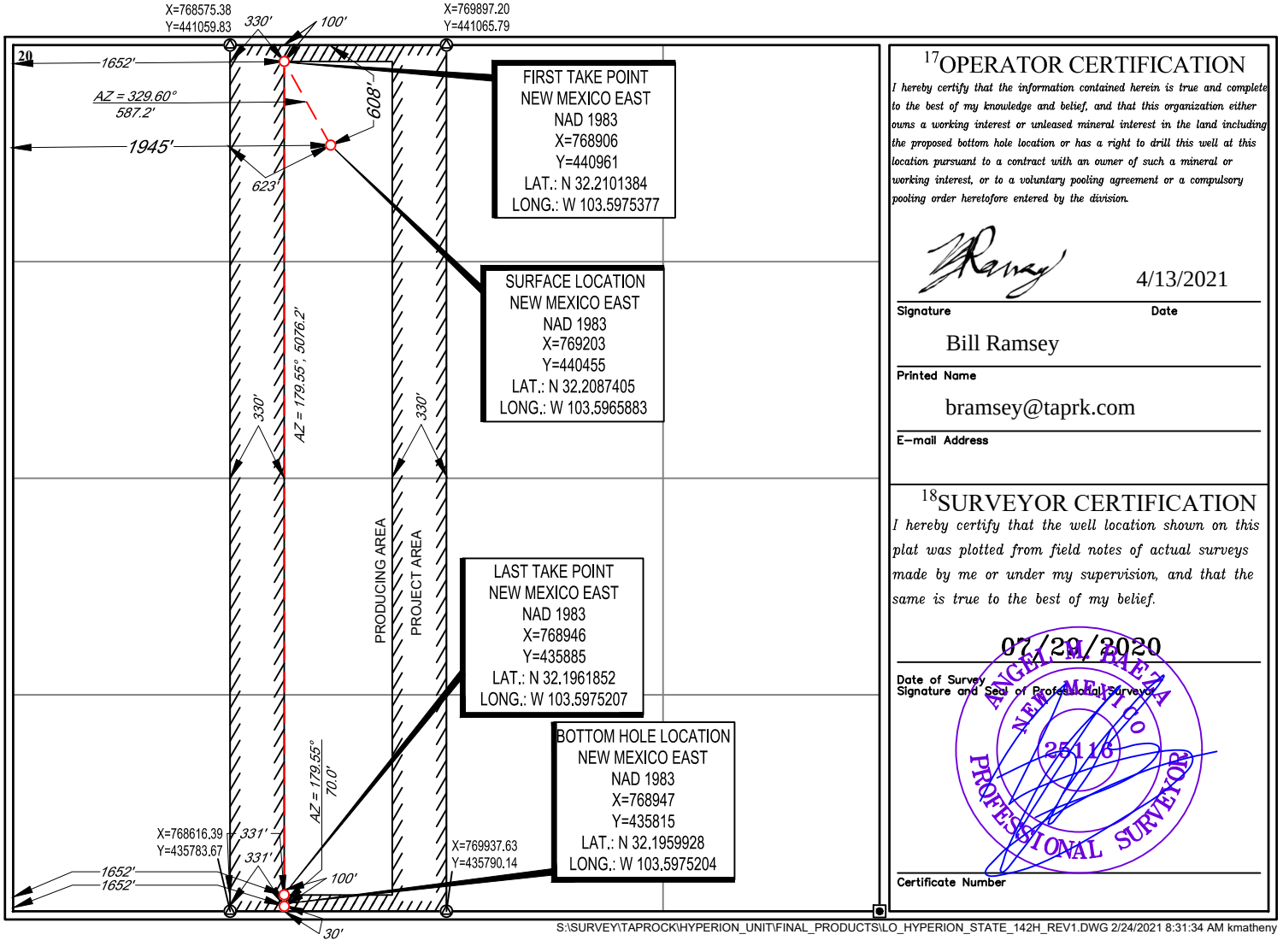
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	20	24-S	33-E	–	608'	NORTH	1945'	WEST	LEA

[11]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	20	24-S	33-E	–	30'	SOUTH	1652'	WEST	LEA

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
160			

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.



[17]OPERATOR CERTIFICATION

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

Signature — Date: 4/13/2021

Bill Ramsey
Printed Name

bramsey@taprk.com
E-mail Address

[18]SURVEYOR CERTIFICATION

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

07/20/2020
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. PEREZ NEW MEXICO 25116 PROFESSIONAL SURVEYOR

Certificate Number

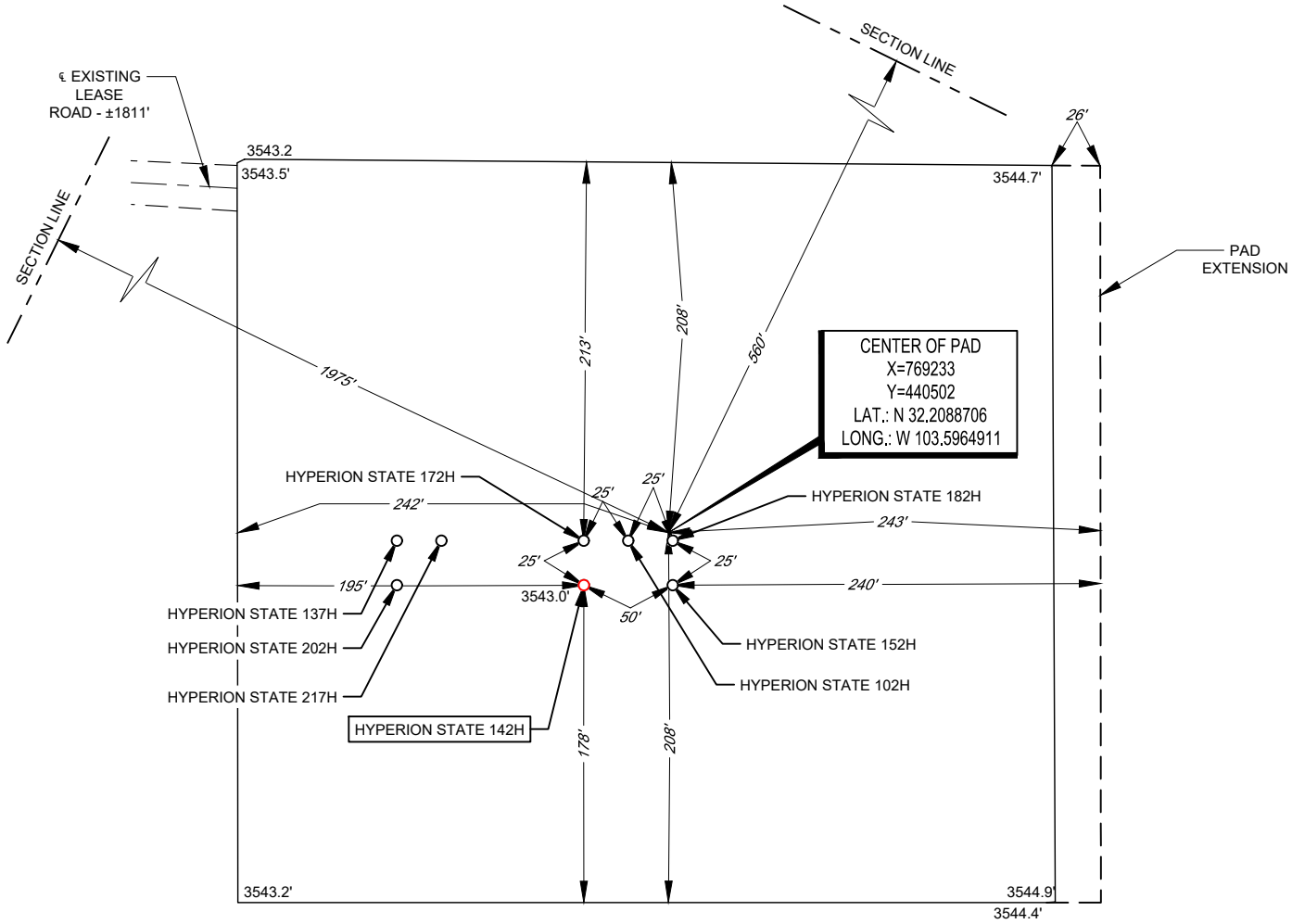
EXHIBIT 2B

TAP ROCK

SECTION 20, TOWNSHIP 24-S, RANGE 33-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

LEGEND

- SECTION LINE
- ROAD CENTERLINE
- ROAD WAY



LEASE NAME & WELL NO.: HYPERION STATE 142H

142H LATITUDE N 32.2087405 142H LONGITUDE W 103.5965883

CENTER OF PAD IS 560' FNL & 1975' FWL

ANGEL M. BAEZA NEW MEXICO 25116 PROFESSIONAL SURVEYOR

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

February 22, 2021

N

SCALE: 1" = 100'

0' 50' 100'

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"

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

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

GAS CAPTURE PLAN

Date: 4/16/2021

☒ Original

☐ Amended - Reason for Amendment:

Operator & OGRID No.: [372043] TAP ROCK OPERATING, LLC

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

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

Well(s)/Production Facility – Name of facility

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

Well Name	API	Well Location (ULSTR)	Footages	Expected MCF/D	Flared or Vented	Comments
HYPERION STATE #142H	30-025-48664	C-20-24S-33E	0608N 1945W	3500	Flared	Gas will be flared for ~21 days during flowback before being turned to the TB. Time est. depends on sales connect and well cleanup.

Gathering System and Pipeline Notification

Well(s) will be connected to a production facility after flowback operations are complete, if gas transporter system is in place. The gas produced from production facility is dedicated to LUCID ENERGY DELAWARE, LLC and will be connected to LUCID ENERGY DELAWARE, LLC High/Low Pressure gathering system located in Lea County, New Mexico. It will require 2500' of pipeline to connect the facility to High/Low Pressure gathering system. TAP ROCK OPERATING, LLC provides (periodically) to LUCID ENERGY DELAWARE, LLC a drilling, completion and estimated first production date for wells that are scheduled to be drilled in the foreseeable future. In addition, TAP ROCK OPERATING, LLC and LUCID ENERGY DELAWARE, LLC have periodic conference calls to discuss changes to drilling and completion schedules. Gas from these wells will be processed at LUCID ENERGY DELAWARE, LLC Processing Plant located in Sec. 15, Twn. 24S, Rng. 33E, Lea County, New Mexico. The actual flow of the gas will be based on compression operating parameters and gathering system pressures.

Flowback Strategy

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

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

Alternatives to Reduce Flaring

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

- Power Generation – On lease
  - Only a portion of gas is consumed operating the generator, remainder of gas will be flared
- Compressed Natural Gas – On lease
  - Gas flared would be minimal, but might be uneconomical to operate when gas volume declines
- NGL Removal – On lease
  - Plants are expensive, residue gas is still flared, and uneconomical to operate when gas volume declines

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 APD Conditions

Permit 294843

PERMIT CONDITIONS OF APPROVAL

Operator Name and Address:	API Number:
TAP ROCK OPERATING, LLC [372043] 523 Park Point Drive Golden, CO 80401	30-025-48664
	Well: HYPERION STATE #142H

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	1) SURFACE & INTERMEDIATE CASING - Cement must circulate to surface -- 2) PRODUCTION CASING - Cement must tie back into intermediate casing --
pkautz	If cement does not circulate to surface, must run temperature survey or other log to determine top of cement
pkautz	Surface casing must be set 25' below top of Rustler Anhydrite in order to seal off protectable water
pkautz	1)- The Operator is to notify NMOCD by sundry (Form C-103) within ten (10) days of the well being spud 2)- Drilling Sundries Form C-103 (Casing and Cement test are to be submitted within 10 days 3)- Completion Reports & Logs are to be submitted within 45 days 4)- Deviation / Directional Drill Survey are to be filed with or prior to C-104
pkautz	It is the operator's responsibility to monitor cancellation dates of approved APDs. APD's are good for 2 years and may be extended for one year. Only one 1 year extension will be granted if submitted by C-103 before expiration date. After expiration date or after a 1 year extension must submit new APD. If an APD expires and if site construction has occurred, site remediation is required.

Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Hyperion) Sec-20_T-24-S_R-33-E
Hyperion State #142H

OWB

Plan: Plan #1

Standard Planning Report

10 March, 2021

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**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 (Hyperion) Sec-20_T-24-S_R-33-E

Site Position:		**Northing:**	440,505.00 usft	**Latitude:**	32° 12' 32.058 N
From:	Map	**Easting:**	767,798.00 usft	**Longitude:**	103° 36' 4.072 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.39 °

Well Hyperion State #142H

Well Position	**+N/-S**	-50.0 usft	**Northing:**	440,455.00 usft	**Latitude:**	32° 12' 31.468 N
	+E/-W	1,405.0 usft	**Easting:**	769,203.00 usft	**Longitude:**	103° 35' 47.723 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**		**Ground Level:**	3,543.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/06/21	6.56	60.00	47,543.51904163

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	179.54

Plan Survey Tool Program **Date** 03/10/21

	Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	15,456.9	Plan #1 (OWB)	MWD	
				OWSG MWD - Standard	

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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	
2,199.9	7.00	352.23	2,198.1	42.3	-5.8	1.00	1.00	0.00	352.23	
6,112.8	7.00	352.23	6,081.9	514.7	-70.2	0.00	0.00	0.00	0.00	
6,812.6	0.00	0.00	6,780.0	557.0	-76.0	1.00	-1.00	0.00	180.00	
9,915.6	0.00	0.00	9,883.0	557.0	-76.0	0.00	0.00	0.00	0.00	
10,815.6	90.00	190.00	10,456.0	-7.3	-175.5	10.00	10.00	0.00	190.00	
11,200.6	90.00	190.00	10,456.0	-386.4	-242.3	0.00	0.00	0.00	0.00	
11,723.5	90.00	179.54	10,456.0	-906.7	-285.8	2.00	0.00	-2.00	-90.00	
15,456.9	90.00	179.54	10,456.0	-4,640.0	-256.0	0.00	0.00	0.00	0.00	PBHL (Hyperion Sta

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**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
1,201.0	0.00	0.00	1,201.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
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
1,589.0	0.89	352.23	1,589.0	0.7	-0.1	-0.7	1.00	1.00	0.00
Top Salt									
1,600.0	1.00	352.23	1,600.0	0.9	-0.1	-0.9	1.00	1.00	0.00
1,700.0	2.00	352.23	1,700.0	3.5	-0.5	-3.5	1.00	1.00	0.00
1,800.0	3.00	352.23	1,799.9	7.8	-1.1	-7.8	1.00	1.00	0.00
1,900.0	4.00	352.23	1,899.7	13.8	-1.9	-13.8	1.00	1.00	0.00
2,000.0	5.00	352.23	1,999.4	21.6	-2.9	-21.6	1.00	1.00	0.00
2,100.0	6.00	352.23	2,098.9	31.1	-4.2	-31.1	1.00	1.00	0.00
2,199.9	7.00	352.23	2,198.1	42.3	-5.8	-42.3	1.00	1.00	0.00
2,300.0	7.00	352.23	2,297.5	54.4	-7.4	-54.4	0.00	0.00	0.00
2,400.0	7.00	352.23	2,396.8	66.5	-9.1	-66.5	0.00	0.00	0.00
2,500.0	7.00	352.23	2,496.0	78.5	-10.7	-78.6	0.00	0.00	0.00
2,600.0	7.00	352.23	2,595.3	90.6	-12.4	-90.7	0.00	0.00	0.00
2,700.0	7.00	352.23	2,694.5	102.7	-14.0	-102.8	0.00	0.00	0.00
2,800.0	7.00	352.23	2,793.8	114.8	-15.7	-114.9	0.00	0.00	0.00
2,900.0	7.00	352.23	2,893.0	126.8	-17.3	-127.0	0.00	0.00	0.00
3,000.0	7.00	352.23	2,992.3	138.9	-19.0	-139.0	0.00	0.00	0.00
3,100.0	7.00	352.23	3,091.6	151.0	-20.6	-151.1	0.00	0.00	0.00
3,200.0	7.00	352.23	3,190.8	163.0	-22.2	-163.2	0.00	0.00	0.00
3,300.0	7.00	352.23	3,290.1	175.1	-23.9	-175.3	0.00	0.00	0.00
3,400.0	7.00	352.23	3,389.3	187.2	-25.5	-187.4	0.00	0.00	0.00
3,500.0	7.00	352.23	3,488.6	199.3	-27.2	-199.5	0.00	0.00	0.00
3,600.0	7.00	352.23	3,587.8	211.3	-28.8	-211.6	0.00	0.00	0.00
3,700.0	7.00	352.23	3,687.1	223.4	-30.5	-223.6	0.00	0.00	0.00
3,800.0	7.00	352.23	3,786.3	235.5	-32.1	-235.7	0.00	0.00	0.00
3,900.0	7.00	352.23	3,885.6	247.6	-33.8	-247.8	0.00	0.00	0.00
4,000.0	7.00	352.23	3,984.8	259.6	-35.4	-259.9	0.00	0.00	0.00
4,100.0	7.00	352.23	4,084.1	271.7	-37.1	-272.0	0.00	0.00	0.00
4,200.0	7.00	352.23	4,183.4	283.8	-38.7	-284.1	0.00	0.00	0.00
4,300.0	7.00	352.23	4,282.6	295.8	-40.4	-296.2	0.00	0.00	0.00
4,400.0	7.00	352.23	4,381.9	307.9	-42.0	-308.2	0.00	0.00	0.00
4,500.0	7.00	352.23	4,481.1	320.0	-43.7	-320.3	0.00	0.00	0.00
4,600.0	7.00	352.23	4,580.4	332.1	-45.3	-332.4	0.00	0.00	0.00
4,700.0	7.00	352.23	4,679.6	344.1	-47.0	-344.5	0.00	0.00	0.00
4,800.0	7.00	352.23	4,778.9	356.2	-48.6	-356.6	0.00	0.00	0.00
4,806.2	7.00	352.23	4,785.0	357.0	-48.7	-357.3	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**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)
Base Salt									
4,900.0	7.00	352.23	4,878.1	368.3	-50.3	-368.7	0.00	0.00	0.00
5,000.0	7.00	352.23	4,977.4	380.4	-51.9	-380.8	0.00	0.00	0.00
5,081.2	7.00	352.23	5,058.0	390.2	-53.2	-390.6	0.00	0.00	0.00
Delaware Mountain Gp									
5,087.3	7.00	352.23	5,064.0	390.9	-53.3	-391.3	0.00	0.00	0.00
Lamar									
5,100.0	7.00	352.23	5,076.7	392.4	-53.5	-392.8	0.00	0.00	0.00
5,108.4	7.00	352.23	5,085.0	393.4	-53.7	-393.9	0.00	0.00	0.00
Bell Canyon									
5,123.5	7.00	352.23	5,100.0	395.3	-53.9	-395.7	0.00	0.00	0.00
Ramsey Sand									
5,200.0	7.00	352.23	5,175.9	404.5	-55.2	-404.9	0.00	0.00	0.00
5,300.0	7.00	352.23	5,275.2	416.6	-56.8	-417.0	0.00	0.00	0.00
5,400.0	7.00	352.23	5,374.4	428.6	-58.5	-429.1	0.00	0.00	0.00
5,500.0	7.00	352.23	5,473.7	440.7	-60.1	-441.2	0.00	0.00	0.00
5,600.0	7.00	352.23	5,572.9	452.8	-61.8	-453.3	0.00	0.00	0.00
5,700.0	7.00	352.23	5,672.2	464.9	-63.4	-465.4	0.00	0.00	0.00
5,800.0	7.00	352.23	5,771.4	476.9	-65.1	-477.4	0.00	0.00	0.00
5,900.0	7.00	352.23	5,870.7	489.0	-66.7	-489.5	0.00	0.00	0.00
6,000.0	7.00	352.23	5,969.9	501.1	-68.4	-501.6	0.00	0.00	0.00
6,063.5	7.00	352.23	6,033.0	508.8	-69.4	-509.3	0.00	0.00	0.00
Cherry Canyon									
6,100.0	7.00	352.23	6,069.2	513.2	-70.0	-513.7	0.00	0.00	0.00
6,112.8	7.00	352.23	6,081.9	514.7	-70.2	-515.2	0.00	0.00	0.00
6,200.0	6.13	352.23	6,168.5	524.6	-71.6	-525.1	1.00	-1.00	0.00
6,300.0	5.13	352.23	6,268.0	534.3	-72.9	-534.9	1.00	-1.00	0.00
6,400.0	4.13	352.23	6,367.7	542.3	-74.0	-542.9	1.00	-1.00	0.00
6,500.0	3.13	352.23	6,467.5	548.6	-74.8	-549.1	1.00	-1.00	0.00
6,600.0	2.13	352.23	6,567.4	553.1	-75.5	-553.7	1.00	-1.00	0.00
6,700.0	1.13	352.23	6,667.4	555.9	-75.9	-556.5	1.00	-1.00	0.00
6,800.0	0.13	352.23	6,767.4	557.0	-76.0	-557.6	1.00	-1.00	0.00
6,812.6	0.00	0.00	6,780.0	557.0	-76.0	-557.6	1.00	-1.00	0.00
6,900.0	0.00	0.00	6,867.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,967.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,067.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,167.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,267.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,367.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,467.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,522.6	0.00	0.00	7,490.0	557.0	-76.0	-557.6	0.00	0.00	0.00
Brushy Canyon									
7,600.0	0.00	0.00	7,567.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,667.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,767.4	557.0	-76.0	-557.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,867.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,967.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,067.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,167.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,267.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,367.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,500.0	0.00	0.00	8,467.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,600.0	0.00	0.00	8,567.4	557.0	-76.0	-557.6	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**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)
8,700.0	0.00	0.00	8,667.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,800.0	0.00	0.00	8,767.4	557.0	-76.0	-557.6	0.00	0.00	0.00
8,900.0	0.00	0.00	8,867.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,000.0	0.00	0.00	8,967.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,100.0	0.00	0.00	9,067.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,106.6	0.00	0.00	9,074.0	557.0	-76.0	-557.6	0.00	0.00	0.00
Bone Spring Lime									
9,200.0	0.00	0.00	9,167.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,262.6	0.00	0.00	9,230.0	557.0	-76.0	-557.6	0.00	0.00	0.00
Upper Avalon									
9,300.0	0.00	0.00	9,267.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,400.0	0.00	0.00	9,367.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,500.0	0.00	0.00	9,467.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,504.6	0.00	0.00	9,472.0	557.0	-76.0	-557.6	0.00	0.00	0.00
Middle Avalon									
9,600.0	0.00	0.00	9,567.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,700.0	0.00	0.00	9,667.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,800.0	0.00	0.00	9,767.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,872.6	0.00	0.00	9,840.0	557.0	-76.0	-557.6	0.00	0.00	0.00
Lower Avalon									
9,900.0	0.00	0.00	9,867.4	557.0	-76.0	-557.6	0.00	0.00	0.00
9,915.6	0.00	0.00	9,883.0	557.0	-76.0	-557.6	0.00	0.00	0.00
9,950.0	3.44	190.00	9,917.3	556.0	-76.2	-556.6	10.00	10.00	0.00
10,000.0	8.44	190.00	9,967.1	550.9	-77.1	-551.5	10.00	10.00	0.00
10,050.0	13.44	190.00	10,016.1	541.6	-78.7	-542.2	10.00	10.00	0.00
10,099.8	18.42	190.00	10,064.0	528.1	-81.1	-528.7	10.00	10.00	0.00
1st Bone Spring Sand									
10,100.0	18.44	190.00	10,064.2	528.0	-81.1	-528.7	10.00	10.00	0.00
10,150.0	23.44	190.00	10,110.9	510.4	-84.2	-511.1	10.00	10.00	0.00
10,200.0	28.44	190.00	10,155.8	488.9	-88.0	-489.6	10.00	10.00	0.00
10,250.0	33.44	190.00	10,198.7	463.6	-92.5	-464.3	10.00	10.00	0.00
10,300.0	38.44	190.00	10,239.2	434.7	-97.6	-435.5	10.00	10.00	0.00
10,350.0	43.44	190.00	10,276.9	402.5	-103.2	-403.3	10.00	10.00	0.00
10,400.0	48.44	190.00	10,311.7	367.1	-109.5	-368.0	10.00	10.00	0.00
10,450.0	53.44	190.00	10,343.2	328.9	-116.2	-329.8	10.00	10.00	0.00
10,500.0	58.44	190.00	10,371.2	288.1	-123.4	-289.1	10.00	10.00	0.00
10,550.0	63.44	190.00	10,395.5	245.1	-131.0	-246.1	10.00	10.00	0.00
10,569.7	65.41	190.00	10,404.0	227.5	-134.1	-228.6	10.00	10.00	0.00
2nd Bone Spring Carb									
10,600.0	68.44	190.00	10,415.9	200.1	-138.9	-201.2	10.00	10.00	0.00
10,650.0	73.44	190.00	10,432.2	153.6	-147.1	-154.8	10.00	10.00	0.00
10,700.0	78.44	190.00	10,444.3	105.9	-155.5	-107.1	10.00	10.00	0.00
10,750.0	83.44	190.00	10,452.2	57.2	-164.1	-58.6	10.00	10.00	0.00
10,800.0	88.44	190.00	10,455.7	8.1	-172.8	-9.5	10.00	10.00	0.00
10,815.6	90.00	190.00	10,456.0	-7.3	-175.5	5.8	10.00	10.00	0.00
10,900.0	90.00	190.00	10,456.0	-90.3	-190.1	88.8	0.00	0.00	0.00
11,000.0	90.00	190.00	10,456.0	-188.8	-207.5	187.1	0.00	0.00	0.00
11,100.0	90.00	190.00	10,456.0	-287.3	-224.9	285.5	0.00	0.00	0.00
11,200.6	90.00	190.00	10,456.0	-386.4	-242.3	384.4	0.00	0.00	0.00
11,300.0	90.00	188.01	10,456.0	-484.5	-257.9	482.5	2.00	0.00	-2.00
11,400.0	90.00	186.01	10,456.0	-583.8	-270.1	581.6	2.00	0.00	-2.00
11,500.0	90.00	184.01	10,456.0	-683.4	-278.8	681.1	2.00	0.00	-2.00
11,600.0	90.00	182.01	10,456.0	-783.3	-284.1	781.0	2.00	0.00	-2.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**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)
11,700.0	90.00	180.01	10,456.0	-883.2	-285.9	880.9	2.00	0.00	-2.00
11,723.5	90.00	179.54	10,456.0	-906.7	-285.8	904.4	2.00	0.00	-2.00
11,800.0	90.00	179.54	10,456.0	-983.2	-285.2	980.9	0.00	0.00	0.00
11,900.0	90.00	179.54	10,456.0	-1,083.2	-284.4	1,080.9	0.00	0.00	0.00
12,000.0	90.00	179.54	10,456.0	-1,183.2	-283.6	1,180.9	0.00	0.00	0.00
12,100.0	90.00	179.54	10,456.0	-1,283.2	-282.8	1,280.9	0.00	0.00	0.00
12,200.0	90.00	179.54	10,456.0	-1,383.2	-282.0	1,380.9	0.00	0.00	0.00
12,300.0	90.00	179.54	10,456.0	-1,483.2	-281.2	1,480.9	0.00	0.00	0.00
12,400.0	90.00	179.54	10,456.0	-1,583.2	-280.4	1,580.9	0.00	0.00	0.00
12,500.0	90.00	179.54	10,456.0	-1,683.2	-279.6	1,680.9	0.00	0.00	0.00
12,600.0	90.00	179.54	10,456.0	-1,783.2	-278.8	1,780.9	0.00	0.00	0.00
12,700.0	90.00	179.54	10,456.0	-1,883.2	-278.0	1,880.9	0.00	0.00	0.00
12,800.0	90.00	179.54	10,456.0	-1,983.2	-277.2	1,980.9	0.00	0.00	0.00
12,900.0	90.00	179.54	10,456.0	-2,083.2	-276.4	2,080.9	0.00	0.00	0.00
13,000.0	90.00	179.54	10,456.0	-2,183.2	-275.6	2,180.9	0.00	0.00	0.00
13,100.0	90.00	179.54	10,456.0	-2,283.2	-274.8	2,280.9	0.00	0.00	0.00
13,200.0	90.00	179.54	10,456.0	-2,383.2	-274.0	2,380.9	0.00	0.00	0.00
13,300.0	90.00	179.54	10,456.0	-2,483.2	-273.2	2,480.9	0.00	0.00	0.00
13,400.0	90.00	179.54	10,456.0	-2,583.2	-272.4	2,580.9	0.00	0.00	0.00
13,500.0	90.00	179.54	10,456.0	-2,683.2	-271.6	2,680.9	0.00	0.00	0.00
13,600.0	90.00	179.54	10,456.0	-2,783.2	-270.8	2,780.9	0.00	0.00	0.00
13,700.0	90.00	179.54	10,456.0	-2,883.2	-270.0	2,880.9	0.00	0.00	0.00
13,800.0	90.00	179.54	10,456.0	-2,983.2	-269.2	2,980.9	0.00	0.00	0.00
13,900.0	90.00	179.54	10,456.0	-3,083.2	-268.4	3,080.9	0.00	0.00	0.00
14,000.0	90.00	179.54	10,456.0	-3,183.2	-267.6	3,180.9	0.00	0.00	0.00
14,100.0	90.00	179.54	10,456.0	-3,283.2	-266.8	3,280.9	0.00	0.00	0.00
14,200.0	90.00	179.54	10,456.0	-3,383.2	-266.0	3,380.9	0.00	0.00	0.00
14,300.0	90.00	179.54	10,456.0	-3,483.2	-265.2	3,480.9	0.00	0.00	0.00
14,400.0	90.00	179.54	10,456.0	-3,583.2	-264.4	3,580.9	0.00	0.00	0.00
14,500.0	90.00	179.54	10,456.0	-3,683.1	-263.6	3,680.9	0.00	0.00	0.00
14,600.0	90.00	179.54	10,456.0	-3,783.1	-262.8	3,780.9	0.00	0.00	0.00
14,700.0	90.00	179.54	10,456.0	-3,883.1	-262.0	3,880.9	0.00	0.00	0.00
14,800.0	90.00	179.54	10,456.0	-3,983.1	-261.2	3,980.9	0.00	0.00	0.00
14,900.0	90.00	179.54	10,456.0	-4,083.1	-260.4	4,080.9	0.00	0.00	0.00
15,000.0	90.00	179.54	10,456.0	-4,183.1	-259.6	4,180.9	0.00	0.00	0.00
15,100.0	90.00	179.54	10,456.0	-4,283.1	-258.8	4,280.9	0.00	0.00	0.00
15,200.0	90.00	179.54	10,456.0	-4,383.1	-258.0	4,380.9	0.00	0.00	0.00
15,300.0	90.00	179.54	10,456.0	-4,483.1	-257.3	4,480.9	0.00	0.00	0.00
15,400.0	90.00	179.54	10,456.0	-4,583.1	-256.5	4,580.9	0.00	0.00	0.00
15,456.9	90.00	179.54	10,456.0	-4,640.0	-256.0	4,637.8	0.00	0.00	0.00

Intrepid
Planning Report

Database:	EDM 5000.15 Single User Db	**Local Co-ordinate Reference:**	Well Hyperion State #142H
Company:	Tap Rock Resources, LLC	**TVD Reference:**	KB @ 3569.0usft
Project:	Lea County, NM (NAD 83 NME)	**MD Reference:**	KB @ 3569.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	**North Reference:**	Grid
Well:	Hyperion State #142H	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OWB		
Design:	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 (Hyperion State #	0.00	0.01	10,456.0	506.0	-297.0	440,961.00	768,906.00	32° 12' 36.495 N	103° 35' 51.140 W
- plan misses target center by 274.0usft at 10410.0usft MD (10318.3 TVD, 359.7 N, -110.8 E)									
- Point									
LTP (Hyperion State #	0.00	0.00	10,456.0	-4,570.0	-257.0	435,885.00	768,946.00	32° 11' 46.264 N	103° 35' 51.079 W
- plan misses target center by 0.4usft at 15386.9usft MD (10456.0 TVD, -4570.0 N, -256.6 E)									
- Point									
PBHL (Hyperion State	0.00	179.54	10,456.0	-4,640.0	-256.0	435,815.00	768,947.00	32° 11' 45.571 N	103° 35' 51.073 W
- plan hits target center									
- Rectangle (sides W100.0 H5,146.0 D30.0)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,201.0	1,201.0	Rustler Anhydrite			
1,589.0	1,589.0	Top Salt			
4,806.2	4,785.0	Base Salt			
5,081.2	5,058.0	Delaware Mountain Gp			
5,087.3	5,064.0	Lamar			
5,108.4	5,085.0	Bell Canyon			
5,123.5	5,100.0	Ramsey Sand			
6,063.5	6,033.0	Cherry Canyon			
7,522.6	7,490.0	Brushy Canyon			
9,106.6	9,074.0	Bone Spring Lime			
9,262.6	9,230.0	Upper Avalon			
9,504.6	9,472.0	Middle Avalon			
9,872.6	9,840.0	Lower Avalon			
10,099.8	10,064.0	1st Bone Spring Sand			
10,569.7	10,404.0	2nd Bone Spring Carb			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,500.0	1,500.0	0.0	0.0	NUDGE - Build 1.00
2,199.9	2,198.1	42.3	-5.8	HOLD - 3912.9 at 2199.9 MD
6,112.8	6,081.9	514.7	-70.2	DROP - -1.00
6,812.6	6,780.0	557.0	-76.0	HOLD - 3103.0 at 6812.6 MD
9,915.6	9,883.0	557.0	-76.0	KOP - Build 10.00
10,815.6	10,456.0	-7.3	-175.5	EOC - 385.0 hold at 10815.6 MD
11,200.6	10,456.0	-386.4	-242.3	Start DLS 2.00 TFO -90.00
11,723.6	10,456.0	-906.9	-285.8	Start 3485.5 hold at 11723.6 MD
15,456.9	10,456.0	-4,640.0	-256.0	TD at 15209.1