

Submit 1 Copy To Appropriate District 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

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

Form C-103
Revised July 18, 2013

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.)		WELL API NO. 30-025-47032
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator TAP ROCK OPERATING, LLC		6. State Oil & Gas Lease No. V-2884
3. Address of Operator 602 PARK POINT DR, SUITE 200, GOLDEN, CO 80401		7. Lease Name or Unit Agreement Name HYPERION STATE
4. Well Location Unit Letter <u>A</u> , <u>609</u> feet from the <u>NORTH</u> line and <u>1247</u> feet from the <u>EAST</u> line Section <u>20</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA</u>		8. Well Number <u>204H</u>
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3563 GR		9. OGRID Number 372043
		10. Pool name or Wildcat WC025 G09 S243310P; UPPER WOLFCAMP

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.

Request to change BHL location and Casing Plan.

New BHL is 5' FSL and 825 FEL of Sec 20, 24S, 33E; a move of 55' to the West.

Updated C-102, Drill Plan, & Casing information with detailed intermediate casing procedure are attached.

Updated Casing Information:

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC	Mud
Surf	17.5	13.375	54.5	1250	1310	0	Fresh Water
Int 1	9.875	7.625	29.7	9500	1309	0	Direct Emulsion
Int 2 Int1	8.75	7.625	29.7	11900	776	5050	Direct Emulsion
Prod	6.75	5.5	20	11700	0	11200	OBM
Prod	6.75	5.5	20	17560	700	11200	OBM

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

SIGNATURE CCCe TITLE Regulatory Manager DATE 6/11/2020

Type or print name Christian Combs E-mail address: ccombs@taprk.com PHONE: (720)360-4028

For State Use Only

APPROVED BY: PG Kautz TITLE DATE 07/07/2020
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
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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

BHL UPDATED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47032		² Pool Code 98135	³ Pool Name WC-025 G-09 S2433 10P; UPPER WOLFCAMP
⁴ Property Code 325410	⁵ Property Name HYPERION STATE COM		⁶ Well Number 204H
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.		⁹ Elevation 3563'

¹⁰Surface Location

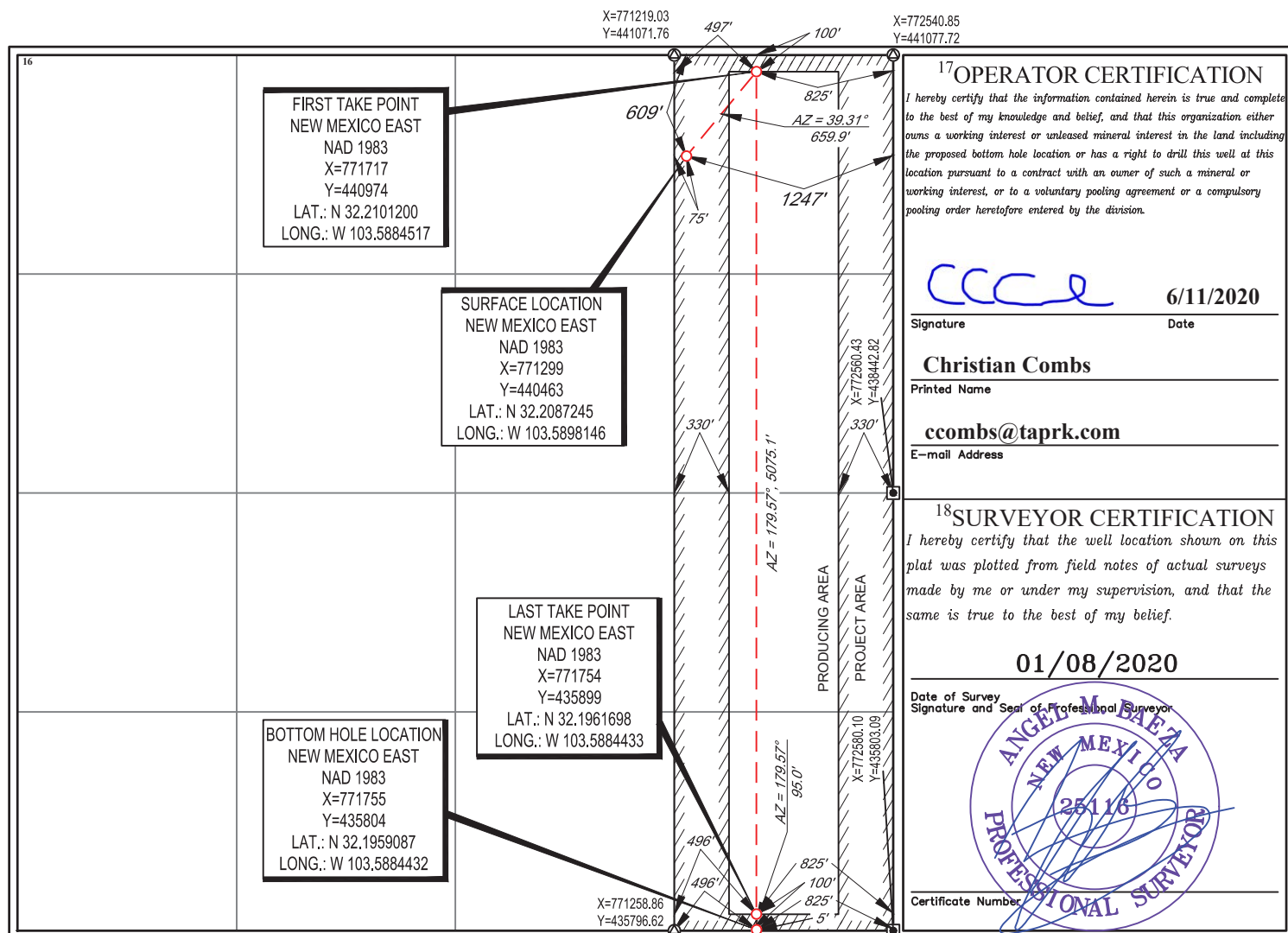
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	20	24-S	33-E	-	609'	NORTH	1247'	EAST	LEA

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
P	20	24-S	33-E	-	5'	SOUTH	825'	EAST	LEA

¹² Dedicated Acres 160	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.





Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Hyperion) Sec-20_T-24-S_R-33-E
Hyperion State #204H**

OWB

Plan: Plan #2

Standard Planning Report

28 May, 2020



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #204H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

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

Well	Hyperion State #204H		
Well Position	+N/-S	-42.0 usft	Northing: 440,463.00 usft
	+E/-W	3,501.0 usft	Easting: 771,299.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 12' 31.404 N
			Longitude: 103° 35' 23.328 W
			Ground Level: 3,563.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	03/18/20	6.66	60.01	47,643.16333286

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	174.41

Plan Survey Tool Program	Date	05/28/20		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,562.0	Plan #2 (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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,400.0	8.00	36.68	2,398.7	22.4	16.7	2.00	2.00	0.00	36.68	
7,027.6	8.00	36.68	6,981.3	538.9	401.3	0.00	0.00	0.00	0.00	
7,427.6	0.00	0.00	7,380.0	561.2	418.0	2.00	-2.00	0.00	180.00	
12,014.6	0.00	0.00	11,967.0	561.2	418.0	0.00	0.00	0.00	0.00	
12,916.7	90.21	179.58	12,540.0	-13.8	422.2	10.00	10.00	19.91	179.58	
17,562.1	90.21	179.58	12,523.0	-4,659.0	456.0	0.00	0.00	0.00	0.00	PBHL (Hyperion St



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Well:	Hyperion State #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
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
1,175.0	0.00	0.00	1,175.0	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
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,595.0	0.00	0.00	1,595.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
2,100.0	2.00	36.68	2,100.0	1.4	1.0	-1.3	2.00	2.00	0.00
2,200.0	4.00	36.68	2,199.8	5.6	4.2	-5.2	2.00	2.00	0.00
2,300.0	6.00	36.68	2,299.5	12.6	9.4	-11.6	2.00	2.00	0.00
2,400.0	8.00	36.68	2,398.7	22.4	16.7	-20.6	2.00	2.00	0.00
HOLD - 4627.6 at 2400.0 MD									
2,500.0	8.00	36.68	2,497.7	33.5	25.0	-30.9	0.00	0.00	0.00
2,600.0	8.00	36.68	2,596.8	44.7	33.3	-41.2	0.00	0.00	0.00
2,700.0	8.00	36.68	2,695.8	55.8	41.6	-51.5	0.00	0.00	0.00
2,800.0	8.00	36.68	2,794.8	67.0	49.9	-61.8	0.00	0.00	0.00
2,900.0	8.00	36.68	2,893.8	78.2	58.2	-72.1	0.00	0.00	0.00
3,000.0	8.00	36.68	2,992.9	89.3	66.5	-82.4	0.00	0.00	0.00
3,100.0	8.00	36.68	3,091.9	100.5	74.8	-92.7	0.00	0.00	0.00
3,200.0	8.00	36.68	3,190.9	111.7	83.2	-103.0	0.00	0.00	0.00
3,300.0	8.00	36.68	3,289.9	122.8	91.5	-113.3	0.00	0.00	0.00
3,400.0	8.00	36.68	3,389.0	134.0	99.8	-123.6	0.00	0.00	0.00
3,500.0	8.00	36.68	3,488.0	145.1	108.1	-133.9	0.00	0.00	0.00
3,600.0	8.00	36.68	3,587.0	156.3	116.4	-144.2	0.00	0.00	0.00
3,700.0	8.00	36.68	3,686.0	167.5	124.7	-154.5	0.00	0.00	0.00
3,800.0	8.00	36.68	3,785.1	178.6	133.0	-164.8	0.00	0.00	0.00
3,900.0	8.00	36.68	3,884.1	189.8	141.3	-175.1	0.00	0.00	0.00
4,000.0	8.00	36.68	3,983.1	200.9	149.7	-185.4	0.00	0.00	0.00
4,100.0	8.00	36.68	4,082.2	212.1	158.0	-195.7	0.00	0.00	0.00
4,200.0	8.00	36.68	4,181.2	223.3	166.3	-206.0	0.00	0.00	0.00
4,300.0	8.00	36.68	4,280.2	234.4	174.6	-216.3	0.00	0.00	0.00
4,400.0	8.00	36.68	4,379.2	245.6	182.9	-226.6	0.00	0.00	0.00
4,500.0	8.00	36.68	4,478.3	256.8	191.2	-236.9	0.00	0.00	0.00
4,600.0	8.00	36.68	4,577.3	267.9	199.5	-247.2	0.00	0.00	0.00
4,700.0	8.00	36.68	4,676.3	279.1	207.9	-257.5	0.00	0.00	0.00

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Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
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)
4,800.0	8.00	36.68	4,775.3	290.2	216.2	-267.8	0.00	0.00	0.00
4,829.9	8.00	36.68	4,805.0	293.6	218.7	-270.9	0.00	0.00	0.00
Base Salt									
4,900.0	8.00	36.68	4,874.4	301.4	224.5	-278.1	0.00	0.00	0.00
5,000.0	8.00	36.68	4,973.4	312.6	232.8	-288.4	0.00	0.00	0.00
5,077.4	8.00	36.68	5,050.0	321.2	239.2	-296.4	0.00	0.00	0.00
Delaware Mountain Gp									
5,082.4	8.00	36.68	5,055.0	321.8	239.6	-296.9	0.00	0.00	0.00
Lamar									
5,097.6	8.00	36.68	5,070.0	323.5	240.9	-298.5	0.00	0.00	0.00
Bell Canyon									
5,100.0	8.00	36.68	5,072.4	323.7	241.1	-298.7	0.00	0.00	0.00
5,117.7	8.00	36.68	5,090.0	325.7	242.6	-300.5	0.00	0.00	0.00
Ramsey Sand									
5,200.0	8.00	36.68	5,171.5	334.9	249.4	-309.0	0.00	0.00	0.00
5,300.0	8.00	36.68	5,270.5	346.1	257.7	-319.3	0.00	0.00	0.00
5,400.0	8.00	36.68	5,369.5	357.2	266.0	-329.6	0.00	0.00	0.00
5,500.0	8.00	36.68	5,468.5	368.4	274.4	-339.9	0.00	0.00	0.00
5,600.0	8.00	36.68	5,567.6	379.5	282.7	-350.2	0.00	0.00	0.00
5,700.0	8.00	36.68	5,666.6	390.7	291.0	-360.5	0.00	0.00	0.00
5,800.0	8.00	36.68	5,765.6	401.9	299.3	-370.8	0.00	0.00	0.00
5,900.0	8.00	36.68	5,864.6	413.0	307.6	-381.1	0.00	0.00	0.00
6,000.0	8.00	36.68	5,963.7	424.2	315.9	-391.4	0.00	0.00	0.00
6,061.9	8.00	36.68	6,025.0	431.1	321.1	-397.8	0.00	0.00	0.00
Cherry Canyon									
6,100.0	8.00	36.68	6,062.7	435.3	324.2	-401.7	0.00	0.00	0.00
6,200.0	8.00	36.68	6,161.7	446.5	332.5	-412.0	0.00	0.00	0.00
6,300.0	8.00	36.68	6,260.7	457.7	340.9	-422.3	0.00	0.00	0.00
6,400.0	8.00	36.68	6,359.8	468.8	349.2	-432.6	0.00	0.00	0.00
6,500.0	8.00	36.68	6,458.8	480.0	357.5	-442.9	0.00	0.00	0.00
6,600.0	8.00	36.68	6,557.8	491.2	365.8	-453.2	0.00	0.00	0.00
6,700.0	8.00	36.68	6,656.9	502.3	374.1	-463.5	0.00	0.00	0.00
6,800.0	8.00	36.68	6,755.9	513.5	382.4	-473.8	0.00	0.00	0.00
6,900.0	8.00	36.68	6,854.9	524.6	390.7	-484.1	0.00	0.00	0.00
7,000.0	8.00	36.68	6,953.9	535.8	399.0	-494.4	0.00	0.00	0.00
7,027.6	8.00	36.68	6,981.3	538.9	401.3	-497.2	0.00	0.00	0.00
DROP - -2.00									
7,100.0	6.55	36.68	7,053.1	546.2	406.8	-504.0	2.00	-2.00	0.00
7,200.0	4.55	36.68	7,152.6	554.0	412.6	-511.2	2.00	-2.00	0.00
7,300.0	2.55	36.68	7,252.4	559.0	416.3	-515.8	2.00	-2.00	0.00
7,400.0	0.55	36.68	7,352.4	561.1	417.9	-517.8	2.00	-2.00	0.00
7,427.6	0.00	0.00	7,380.0	561.2	418.0	-517.9	2.00	-2.00	0.00
HOLD - 4587.0 at 7427.6 MD									
7,500.0	0.00	0.00	7,452.4	561.2	418.0	-517.9	0.00	0.00	0.00
7,587.6	0.00	0.00	7,540.0	561.2	418.0	-517.9	0.00	0.00	0.00
Brushy Canyon									
7,600.0	0.00	0.00	7,552.4	561.2	418.0	-517.9	0.00	0.00	0.00
7,700.0	0.00	0.00	7,652.4	561.2	418.0	-517.9	0.00	0.00	0.00
7,800.0	0.00	0.00	7,752.4	561.2	418.0	-517.9	0.00	0.00	0.00
7,900.0	0.00	0.00	7,852.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,000.0	0.00	0.00	7,952.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,100.0	0.00	0.00	8,052.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,200.0	0.00	0.00	8,152.4	561.2	418.0	-517.9	0.00	0.00	0.00

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Wellbore:	OWB		
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)
8,300.0	0.00	0.00	8,252.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,400.0	0.00	0.00	8,352.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,500.0	0.00	0.00	8,452.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,600.0	0.00	0.00	8,552.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,700.0	0.00	0.00	8,652.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,800.0	0.00	0.00	8,752.4	561.2	418.0	-517.9	0.00	0.00	0.00
8,900.0	0.00	0.00	8,852.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,000.0	0.00	0.00	8,952.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,100.0	0.00	0.00	9,052.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,112.6	0.00	0.00	9,065.0	561.2	418.0	-517.9	0.00	0.00	0.00
Bone Spring Lime									
9,200.0	0.00	0.00	9,152.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,262.6	0.00	0.00	9,215.0	561.2	418.0	-517.9	0.00	0.00	0.00
Upper Avalon									
9,300.0	0.00	0.00	9,252.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,400.0	0.00	0.00	9,352.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,497.6	0.00	0.00	9,450.0	561.2	418.0	-517.9	0.00	0.00	0.00
Middle Avalon									
9,500.0	0.00	0.00	9,452.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,600.0	0.00	0.00	9,552.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,700.0	0.00	0.00	9,652.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,800.0	0.00	0.00	9,752.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,900.0	0.00	0.00	9,852.4	561.2	418.0	-517.9	0.00	0.00	0.00
9,902.6	0.00	0.00	9,855.0	561.2	418.0	-517.9	0.00	0.00	0.00
Lower Avalon									
10,000.0	0.00	0.00	9,952.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,100.0	0.00	0.00	10,052.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,137.6	0.00	0.00	10,090.0	561.2	418.0	-517.9	0.00	0.00	0.00
1st Bone Spring Sand									
10,200.0	0.00	0.00	10,152.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,300.0	0.00	0.00	10,252.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,400.0	0.00	0.00	10,352.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,447.6	0.00	0.00	10,400.0	561.2	418.0	-517.9	0.00	0.00	0.00
2nd Bone Spring Carb									
10,500.0	0.00	0.00	10,452.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,600.0	0.00	0.00	10,552.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,700.0	0.00	0.00	10,652.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,772.6	0.00	0.00	10,725.0	561.2	418.0	-517.9	0.00	0.00	0.00
2nd Bone Spring Sand									
10,800.0	0.00	0.00	10,752.4	561.2	418.0	-517.9	0.00	0.00	0.00
10,900.0	0.00	0.00	10,852.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,000.0	0.00	0.00	10,952.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,100.0	0.00	0.00	11,052.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,200.0	0.00	0.00	11,152.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,300.0	0.00	0.00	11,252.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,322.6	0.00	0.00	11,275.0	561.2	418.0	-517.9	0.00	0.00	0.00
3rd Bone Spring Carb									
11,400.0	0.00	0.00	11,352.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,500.0	0.00	0.00	11,452.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,600.0	0.00	0.00	11,552.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,700.0	0.00	0.00	11,652.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,800.0	0.00	0.00	11,752.4	561.2	418.0	-517.9	0.00	0.00	0.00
11,900.0	0.00	0.00	11,852.4	561.2	418.0	-517.9	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #204H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
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)
12,000.0	0.00	0.00	11,952.4	561.2	418.0	-517.9	0.00	0.00	0.00
12,002.6	0.00	0.00	11,955.0	561.2	418.0	-517.9	0.00	0.00	0.00
3rd Bone Spring Sand									
12,014.6	0.00	0.00	11,967.0	561.2	418.0	-517.9	0.00	0.00	0.00
KOP - DLS 10.00 TFO 179.58									
12,050.0	3.54	179.58	12,002.3	560.2	418.0	-516.8	10.00	10.00	0.00
12,100.0	8.54	179.58	12,052.1	554.9	418.0	-511.5	10.00	10.00	0.00
12,150.0	13.54	179.58	12,101.1	545.3	418.1	-502.0	10.00	10.00	0.00
12,200.0	18.54	179.58	12,149.2	531.5	418.2	-488.3	10.00	10.00	0.00
12,250.0	23.54	179.58	12,195.8	513.6	418.3	-470.4	10.00	10.00	0.00
12,300.0	28.54	179.58	12,240.7	491.6	418.5	-448.5	10.00	10.00	0.00
12,316.4	30.18	179.58	12,255.0	483.6	418.6	-440.5	10.00	10.00	0.00
3rd BS W Sand									
12,350.0	33.54	179.58	12,283.5	465.9	418.7	-422.9	10.00	10.00	0.00
12,400.0	38.54	179.58	12,324.0	436.5	418.9	-393.6	10.00	10.00	0.00
12,401.3	38.67	179.58	12,325.0	435.6	418.9	-392.8	10.00	10.00	0.00
Wolfcamp A X Sand									
12,450.0	43.54	179.58	12,361.7	403.7	419.1	-360.9	10.00	10.00	0.00
12,500.0	48.54	179.58	12,396.4	367.7	419.4	-325.1	10.00	10.00	0.00
12,550.0	53.54	179.58	12,427.8	328.8	419.7	-286.4	10.00	10.00	0.00
12,600.0	58.54	179.58	12,455.7	287.4	420.0	-245.1	10.00	10.00	0.00
12,628.5	61.39	179.58	12,470.0	262.7	420.2	-220.5	10.00	10.00	0.00
Wolfcamp A Y Sand									
12,650.0	63.54	179.58	12,479.9	243.6	420.3	-201.5	10.00	10.00	0.00
12,700.0	68.54	179.58	12,500.2	197.9	420.6	-156.0	10.00	10.00	0.00
12,750.0	73.54	179.58	12,516.5	150.7	421.0	-109.0	10.00	10.00	0.00
12,800.0	78.54	179.58	12,528.5	102.2	421.3	-60.6	10.00	10.00	0.00
12,850.0	83.54	179.58	12,536.3	52.8	421.7	-11.5	10.00	10.00	0.00
12,900.0	88.54	179.58	12,539.8	2.9	422.1	38.2	10.00	10.00	0.00
12,916.7	90.21	179.58	12,540.0	-13.8	422.2	54.8	10.00	10.00	0.00
EOC - 4645.4 hold at 12916.7 MD									
13,000.0	90.21	179.58	12,539.6	-97.1	422.8	137.8	0.00	0.00	0.00
13,100.0	90.21	179.58	12,539.3	-197.1	423.5	237.4	0.00	0.00	0.00
13,200.0	90.21	179.58	12,538.9	-297.1	424.2	337.0	0.00	0.00	0.00
13,300.0	90.21	179.58	12,538.6	-397.0	425.0	436.6	0.00	0.00	0.00
13,400.0	90.21	179.58	12,538.2	-497.0	425.7	536.1	0.00	0.00	0.00
13,500.0	90.21	179.58	12,537.8	-597.0	426.4	635.7	0.00	0.00	0.00
13,600.0	90.21	179.58	12,537.5	-697.0	427.2	735.3	0.00	0.00	0.00
13,700.0	90.21	179.58	12,537.1	-797.0	427.9	834.9	0.00	0.00	0.00
13,800.0	90.21	179.58	12,536.7	-897.0	428.6	934.5	0.00	0.00	0.00
13,900.0	90.21	179.58	12,536.4	-997.0	429.3	1,034.1	0.00	0.00	0.00
14,000.0	90.21	179.58	12,536.0	-1,097.0	430.1	1,133.7	0.00	0.00	0.00
14,100.0	90.21	179.58	12,535.6	-1,197.0	430.8	1,233.3	0.00	0.00	0.00
14,200.0	90.21	179.58	12,535.3	-1,297.0	431.5	1,332.9	0.00	0.00	0.00
14,300.0	90.21	179.58	12,534.9	-1,397.0	432.3	1,432.5	0.00	0.00	0.00
14,400.0	90.21	179.58	12,534.5	-1,497.0	433.0	1,532.1	0.00	0.00	0.00
14,500.0	90.21	179.58	12,534.2	-1,597.0	433.7	1,631.7	0.00	0.00	0.00
14,600.0	90.21	179.58	12,533.8	-1,697.0	434.4	1,731.3	0.00	0.00	0.00
14,700.0	90.21	179.58	12,533.4	-1,797.0	435.2	1,830.8	0.00	0.00	0.00
14,800.0	90.21	179.58	12,533.1	-1,897.0	435.9	1,930.4	0.00	0.00	0.00
14,900.0	90.21	179.58	12,532.7	-1,997.0	436.6	2,030.0	0.00	0.00	0.00
15,000.0	90.21	179.58	12,532.4	-2,097.0	437.4	2,129.6	0.00	0.00	0.00
15,100.0	90.21	179.58	12,532.0	-2,197.0	438.1	2,229.2	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #204H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
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)	
15,200.0	90.21	179.58	12,531.6	-2,297.0	438.8	2,328.8	0.00	0.00	0.00	
15,300.0	90.21	179.58	12,531.3	-2,397.0	439.5	2,428.4	0.00	0.00	0.00	
15,400.0	90.21	179.58	12,530.9	-2,497.0	440.3	2,528.0	0.00	0.00	0.00	
15,500.0	90.21	179.58	12,530.5	-2,597.0	441.0	2,627.6	0.00	0.00	0.00	
15,600.0	90.21	179.58	12,530.2	-2,697.0	441.7	2,727.2	0.00	0.00	0.00	
15,700.0	90.21	179.58	12,529.8	-2,797.0	442.4	2,826.8	0.00	0.00	0.00	
15,800.0	90.21	179.58	12,529.4	-2,897.0	443.2	2,926.4	0.00	0.00	0.00	
15,900.0	90.21	179.58	12,529.1	-2,997.0	443.9	3,026.0	0.00	0.00	0.00	
16,000.0	90.21	179.58	12,528.7	-3,097.0	444.6	3,125.5	0.00	0.00	0.00	
16,100.0	90.21	179.58	12,528.3	-3,197.0	445.4	3,225.1	0.00	0.00	0.00	
16,200.0	90.21	179.58	12,528.0	-3,297.0	446.1	3,324.7	0.00	0.00	0.00	
16,300.0	90.21	179.58	12,527.6	-3,396.9	446.8	3,424.3	0.00	0.00	0.00	
16,400.0	90.21	179.58	12,527.2	-3,496.9	447.5	3,523.9	0.00	0.00	0.00	
16,500.0	90.21	179.58	12,526.9	-3,596.9	448.3	3,623.5	0.00	0.00	0.00	
16,600.0	90.21	179.58	12,526.5	-3,696.9	449.0	3,723.1	0.00	0.00	0.00	
16,700.0	90.21	179.58	12,526.1	-3,796.9	449.7	3,822.7	0.00	0.00	0.00	
16,800.0	90.21	179.58	12,525.8	-3,896.9	450.5	3,922.3	0.00	0.00	0.00	
16,900.0	90.21	179.58	12,525.4	-3,996.9	451.2	4,021.9	0.00	0.00	0.00	
17,000.0	90.21	179.58	12,525.1	-4,096.9	451.9	4,121.5	0.00	0.00	0.00	
17,100.0	90.21	179.58	12,524.7	-4,196.9	452.6	4,221.1	0.00	0.00	0.00	
17,200.0	90.21	179.58	12,524.3	-4,296.9	453.4	4,320.6	0.00	0.00	0.00	
17,300.0	90.21	179.58	12,524.0	-4,396.9	454.1	4,420.2	0.00	0.00	0.00	
17,400.0	90.21	179.58	12,523.6	-4,496.9	454.8	4,519.8	0.00	0.00	0.00	
17,500.0	90.21	179.58	12,523.2	-4,596.9	455.5	4,619.4	0.00	0.00	0.00	
17,562.1	90.21	179.58	12,523.0	-4,659.0	456.0	4,681.3	0.00	0.00	0.00	
TD at 17562.1										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
LTP (Hyperion State # - hit/miss target - Shape - Point	0.00	0.00	12,523.0	-4,564.0	455.0	435,899.00	771,754.00	32° 11' 46.211 N	103° 35' 18.400 W	
- plan misses target center by 0.5usft at 17467.1usft MD (12523.3 TVD, -4564.0 N, 455.3 E)										
PBHL (Hyperion State - plan hits target center - Rectangle (sides W100.0 H5,170.0 D30.0)	-0.21	179.58	12,523.0	-4,659.0	456.0	435,804.00	771,755.00	32° 11' 45.271 N	103° 35' 18.396 W	
FTP (Hyperion State # - plan misses target center by 202.7usft at 12496.5usft MD (12394.1 TVD, 370.3 N, 419.4 E) - Point	0.00	0.00	12,540.0	511.0	418.0	440,974.00	771,717.00	32° 12' 36.432 N	103° 35' 18.422 W	

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #204H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3589.0usft
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3589.0usft
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #204H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,175.0	1,175.0	Rustler Anhydrite			
1,595.0	1,595.0	Top Salt			
4,829.9	4,805.0	Base Salt			
5,077.4	5,050.0	Delaware Mountain Gp			
5,082.4	5,055.0	Lamar			
5,097.6	5,070.0	Bell Canyon			
5,117.7	5,090.0	Ramsey Sand			
6,061.9	6,025.0	Cherry Canyon			
7,587.6	7,540.0	Brushy Canyon			
9,112.6	9,065.0	Bone Spring Lime			
9,262.6	9,215.0	Upper Avalon			
9,497.6	9,450.0	Middle Avalon			
9,902.6	9,855.0	Lower Avalon			
10,137.6	10,090.0	1st Bone Spring Sand			
10,447.6	10,400.0	2nd Bone Spring Carb			
10,772.6	10,725.0	2nd Bone Spring Sand			
11,322.6	11,275.0	3rd Bone Spring Carb			
12,002.6	11,955.0	3rd Bone Spring Sand			
12,316.4	12,255.0	3rd BS W Sand			
12,401.3	12,325.0	Wolfcamp A X Sand			
12,628.5	12,470.0	Wolfcamp A Y Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,000.0	2,000.0	0.0	0.0	NUDGE - Build 2.00
2,400.0	2,398.7	22.4	16.7	HOLD - 4627.6 at 2400.0 MD
7,027.6	6,981.3	538.9	401.3	DROP - -2.00
7,427.6	7,380.0	561.2	418.0	HOLD - 4587.0 at 7427.6 MD
12,014.6	11,967.0	561.2	418.0	KOP - DLS 10.00 TFO 179.58
12,916.7	12,540.0	-13.8	422.2	EOC - 4645.4 hold at 12916.7 MD
17,562.1	12,523.0	-4,659.0	456.0	TD at 17562.1

Drill Plan for Hyperion 4 Well Pad

Hyperion State #204H

Hyperion state #203H

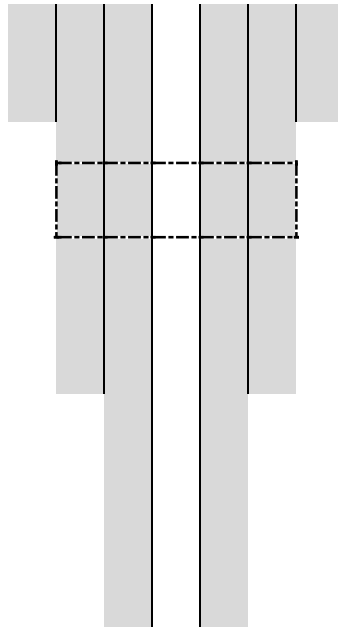
Hyperion state #208H

Hyperion state #206H

Procedure for Intermediate:

1. P/U 9-7/8" tools and swap over mud system to Diesel Emulsion Mud (fully saturated diesel/brine).
2. Drill out float equipment and begin drilling into new formation. 9-7/8" hole will be drilled until the first pull point roughly at 9,700'.
3. 8-3/4" BHA will be picked up and drilled to the planned TD ~11,900'.
4. TOH and run casing
5. Casing schematic will be as follows:
 - a. 7-5/8" 29.7# P110 BTC will be ran to 9,500'
 - b. 7-5/8" 29.7# P110 W513 will be ran to 11,900'
 - c. DVT will be planned at 5,050' to perform a two-stage cement job
6. Cement job will be performed as follows:
 - a. Pump first stage cement job with 13.2 Primary (tail) to a planned TOC 300' above the DVT with 50% excess. Bump plug and test floats.
 - b. Shut down and drop opening bomb
 - c. Open DVT and begin circulating, take DEM mud back to tank farm, swap over to open top when cement is circulated to surface.
 - d. Begin pumping second stage
 - i. 11.5 lead with 100% excess will be pumped to surface with a 200' tail covering the DVT
 - ii. Bump plug verify sleeve has been closed.
 - e. Set pack-off and move off the well
 - f. Ensure valid casing tests are performed prior to drilling out equipment.

DVT
@5,050
TOC @sfc



Surface: 13-3/8" J55 54.5# STC
17.5" Hole
TOC Surface

Intermediate: 7-5/8" 29.7# P110 BTC set to 9,500'
7-5/8" W513 set to 11,900'
Hole: 9-7/9" to ~9,700'
8-3/4" hole to ~11,900'

Production: 5.5" TXP 20# P110 set to 11,700
5.5" 20# P110 W441 set to 17,560'