

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

Form C-103
Revised July 18, 2013

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

WELL API NO. 30-025-46659
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name HYPERION STATE
8. Well Number 131H
9. OGRID Number 372043
10. Pool name or Wildcat UPPER WOLFCAMP

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 602 PARK POINT DR, SUITE 200, GOLDEN, CO 80401	
4. Well Location Unit Letter <u>D</u> : <u>497</u> feet from the <u>NORTH</u> line and <u>540</u> feet from the <u>WEST</u> line Section <u>20</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA</u>	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3537 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.

Request to change BHL from 5 feet from South Line and 331 Feet from West Line to 5 feet from South Line and 990 Feet from West line. Not other changes anticipated.

Updated Directional Plan, Updated Proposed Casing and Cement Plan, & Amended C-102 Plat are attached.

Proposed Casing and Cement Plan

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1250	1000	0
Int1	12.25	9.625	40	5100	1600	0
Int2	8.75	7.625	29.7	11620	520	4000
Prod	6.75	5.5	20	11420	0	10420
Prod	6.75	5	18	17269	670	10420

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

SIGNATURE CCC TITLE Regulatory Manager DATE 1/3/2020

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

For State Use Only

APPROVED BY: [Signature] TITLE DATE 01/22/2020
Conditions of Approval (if any):

Hyperion State #131H**30-025-46659****Proposed Cement and Casing Plan**

Hyperion State 131H						
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1250	1000	0
Int1	12.25	9.625	40	5100	1600	0
Int2	8.75	7.625	29.7	11620	520	4000
Prod	6.75	5.5	20	11420	0	10420
Prod	6.75	5	18	17269	670	10420



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Hyperion) Sec-20_T-24-S_R-33-E
Hyperion State #131H
API# 30-025-46659
OWB**

Plan: Plan #1

Standard Planning Report

03 January, 2020



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3565.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3565.0usft (H&P 245)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #131H	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
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 #131H		
Well Position	+N/-S	54.0 usft	Northing: 440,559.00 usft
	+E/-W	-1.0 usft	Easting: 767,797.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 12' 32.592 N
			Longitude: 103° 36' 4.079 W
			Ground Level: 3,539.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	1/3/2020	6.69	60.01	47,663.41490698

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	179.55

Plan Survey Tool Program	Date	1/3/2020		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,268.9	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	
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,350.1	7.00	40.96	3,349.2	16.1	14.0	2.00	2.00	0.00	40.96	
7,880.4	7.00	40.96	7,845.8	433.2	376.0	0.00	0.00	0.00	0.00	
8,230.5	0.00	0.00	8,195.0	449.3	390.0	2.00	-2.00	0.00	180.00	
11,717.6	0.00	0.00	11,682.1	449.3	390.0	0.00	0.00	0.00	0.00	
12,621.9	90.43	174.85	12,255.0	-125.6	441.8	10.00	10.00	0.00	174.85	
12,856.9	90.43	179.55	12,253.3	-360.2	453.3	2.00	0.00	2.00	89.96	
17,268.9	90.43	179.55	12,220.0	-4,772.0	488.0	0.00	0.00	0.00	0.00	PBHL (Hyperion St



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Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #131H	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
1,175.0	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
1,520.0	0.00	0.00	1,520.0	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
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
NUDGE - Build 2.00									
3,100.0	2.00	40.96	3,100.0	1.3	1.1	-1.3	2.00	2.00	0.00
3,200.0	4.00	40.96	3,199.8	5.3	4.6	-5.2	2.00	2.00	0.00
3,300.0	6.00	40.96	3,299.5	11.9	10.3	-11.8	2.00	2.00	0.00
3,350.1	7.00	40.96	3,349.2	16.1	14.0	-16.0	2.00	2.00	0.00
HOLD - 4530.3 at 3350.1 MD									
3,400.0	7.00	40.96	3,398.8	20.7	18.0	-20.6	0.00	0.00	0.00
3,500.0	7.00	40.96	3,498.0	29.9	26.0	-29.7	0.00	0.00	0.00
3,600.0	7.00	40.96	3,597.3	39.1	34.0	-38.9	0.00	0.00	0.00
3,700.0	7.00	40.96	3,696.5	48.3	42.0	-48.0	0.00	0.00	0.00
3,800.0	7.00	40.96	3,795.8	57.6	50.0	-57.2	0.00	0.00	0.00
3,900.0	7.00	40.96	3,895.0	66.8	57.9	-66.3	0.00	0.00	0.00
4,000.0	7.00	40.96	3,994.3	76.0	65.9	-75.4	0.00	0.00	0.00
4,100.0	7.00	40.96	4,093.5	85.2	73.9	-84.6	0.00	0.00	0.00
4,200.0	7.00	40.96	4,192.8	94.4	81.9	-93.7	0.00	0.00	0.00
4,300.0	7.00	40.96	4,292.0	103.6	89.9	-102.9	0.00	0.00	0.00
4,400.0	7.00	40.96	4,391.3	112.8	97.9	-112.0	0.00	0.00	0.00
4,500.0	7.00	40.96	4,490.6	122.0	105.9	-121.2	0.00	0.00	0.00
4,600.0	7.00	40.96	4,589.8	131.2	113.9	-130.3	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 #131H	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)
4,700.0	7.00	40.96	4,689.1	140.4	121.9	-139.4	0.00	0.00	0.00
4,796.7	7.00	40.96	4,785.0	149.3	129.6	-148.3	0.00	0.00	0.00
Base Salt									
4,800.0	7.00	40.96	4,788.3	149.6	129.9	-148.6	0.00	0.00	0.00
4,900.0	7.00	40.96	4,887.6	158.8	137.8	-157.7	0.00	0.00	0.00
5,000.0	7.00	40.96	4,986.8	168.0	145.8	-166.9	0.00	0.00	0.00
5,038.5	7.00	40.96	5,025.0	171.6	148.9	-170.4	0.00	0.00	0.00
Delaware Mountain Gp									
5,048.5	7.00	40.96	5,035.0	172.5	149.7	-171.3	0.00	0.00	0.00
Lamar									
5,068.7	7.00	40.96	5,055.0	174.3	151.3	-173.2	0.00	0.00	0.00
Bell Canyon									
5,083.8	7.00	40.96	5,070.0	175.7	152.5	-174.5	0.00	0.00	0.00
Ramsey Sand									
5,100.0	7.00	40.96	5,086.1	177.2	153.8	-176.0	0.00	0.00	0.00
5,200.0	7.00	40.96	5,185.3	186.4	161.8	-185.2	0.00	0.00	0.00
5,300.0	7.00	40.96	5,284.6	195.6	169.8	-194.3	0.00	0.00	0.00
5,400.0	7.00	40.96	5,383.8	204.8	177.8	-203.4	0.00	0.00	0.00
5,500.0	7.00	40.96	5,483.1	214.1	185.8	-212.6	0.00	0.00	0.00
5,600.0	7.00	40.96	5,582.4	223.3	193.8	-221.7	0.00	0.00	0.00
5,700.0	7.00	40.96	5,681.6	232.5	201.8	-230.9	0.00	0.00	0.00
5,800.0	7.00	40.96	5,780.9	241.7	209.8	-240.0	0.00	0.00	0.00
5,900.0	7.00	40.96	5,880.1	250.9	217.8	-249.2	0.00	0.00	0.00
5,980.5	7.00	40.96	5,960.0	258.3	224.2	-256.5	0.00	0.00	0.00
Cherry Canyon									
6,000.0	7.00	40.96	5,979.4	260.1	225.7	-258.3	0.00	0.00	0.00
6,100.0	7.00	40.96	6,078.6	269.3	233.7	-267.4	0.00	0.00	0.00
6,200.0	7.00	40.96	6,177.9	278.5	241.7	-276.6	0.00	0.00	0.00
6,300.0	7.00	40.96	6,277.1	287.7	249.7	-285.7	0.00	0.00	0.00
6,400.0	7.00	40.96	6,376.4	296.9	257.7	-294.9	0.00	0.00	0.00
6,500.0	7.00	40.96	6,475.6	306.1	265.7	-304.0	0.00	0.00	0.00
6,600.0	7.00	40.96	6,574.9	315.3	273.7	-313.2	0.00	0.00	0.00
6,700.0	7.00	40.96	6,674.1	324.5	281.7	-322.3	0.00	0.00	0.00
6,800.0	7.00	40.96	6,773.4	333.7	289.7	-331.4	0.00	0.00	0.00
6,900.0	7.00	40.96	6,872.7	342.9	297.7	-340.6	0.00	0.00	0.00
7,000.0	7.00	40.96	6,971.9	352.1	305.6	-349.7	0.00	0.00	0.00
7,100.0	7.00	40.96	7,071.2	361.4	313.6	-358.9	0.00	0.00	0.00
7,200.0	7.00	40.96	7,170.4	370.6	321.6	-368.0	0.00	0.00	0.00
7,300.0	7.00	40.96	7,269.7	379.8	329.6	-377.2	0.00	0.00	0.00
7,400.0	7.00	40.96	7,368.9	389.0	337.6	-386.3	0.00	0.00	0.00
7,446.4	7.00	40.96	7,415.0	393.2	341.3	-390.6	0.00	0.00	0.00
Brushy Canyon									
7,500.0	7.00	40.96	7,468.2	398.2	345.6	-395.4	0.00	0.00	0.00
7,600.0	7.00	40.96	7,567.4	407.4	353.6	-404.6	0.00	0.00	0.00
7,700.0	7.00	40.96	7,666.7	416.6	361.6	-413.7	0.00	0.00	0.00
7,800.0	7.00	40.96	7,765.9	425.8	369.6	-422.9	0.00	0.00	0.00
7,880.4	7.00	40.96	7,845.8	433.2	376.0	-430.2	0.00	0.00	0.00
DROP - -2.00									
7,900.0	6.61	40.96	7,865.2	434.9	377.5	-432.0	2.00	-2.00	0.00
8,000.0	4.61	40.96	7,964.7	442.3	383.9	-439.3	2.00	-2.00	0.00
8,100.0	2.61	40.96	8,064.5	447.1	388.1	-444.0	2.00	-2.00	0.00
8,200.0	0.61	40.96	8,164.5	449.2	389.9	-446.1	2.00	-2.00	0.00
8,230.5	0.00	0.00	8,195.0	449.3	390.0	-446.3	2.00	-2.00	0.00

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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)
HOLD - 3487.1 at 8230.5 MD									
8,300.0	0.00	0.00	8,264.5	449.3	390.0	-446.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,364.5	449.3	390.0	-446.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,464.5	449.3	390.0	-446.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,564.5	449.3	390.0	-446.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,664.5	449.3	390.0	-446.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,764.5	449.3	390.0	-446.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,864.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,964.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,055.5	0.00	0.00	9,020.0	449.3	390.0	-446.3	0.00	0.00	0.00
Bone Spring Lime									
9,100.0	0.00	0.00	9,064.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,164.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,215.5	0.00	0.00	9,180.0	449.3	390.0	-446.3	0.00	0.00	0.00
Upper Avalon									
9,300.0	0.00	0.00	9,264.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,400.0	0.00	0.00	9,364.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,455.5	0.00	0.00	9,420.0	449.3	390.0	-446.3	0.00	0.00	0.00
Middle Avalon									
9,500.0	0.00	0.00	9,464.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,600.0	0.00	0.00	9,564.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,700.0	0.00	0.00	9,664.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,800.0	0.00	0.00	9,764.5	449.3	390.0	-446.3	0.00	0.00	0.00
9,820.5	0.00	0.00	9,785.0	449.3	390.0	-446.3	0.00	0.00	0.00
Lower Avalon									
9,900.0	0.00	0.00	9,864.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,000.0	0.00	0.00	9,964.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,080.5	0.00	0.00	10,045.0	449.3	390.0	-446.3	0.00	0.00	0.00
1st Bone Spring Sand									
10,100.0	0.00	0.00	10,064.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,200.0	0.00	0.00	10,164.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,300.0	0.00	0.00	10,264.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,400.0	0.00	0.00	10,364.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,410.5	0.00	0.00	10,375.0	449.3	390.0	-446.3	0.00	0.00	0.00
2nd Bone Spring Carb									
10,500.0	0.00	0.00	10,464.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,600.0	0.00	0.00	10,564.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,700.0	0.00	0.00	10,664.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,735.5	0.00	0.00	10,700.0	449.3	390.0	-446.3	0.00	0.00	0.00
2nd Bone Spring Sand									
10,800.0	0.00	0.00	10,764.5	449.3	390.0	-446.3	0.00	0.00	0.00
10,900.0	0.00	0.00	10,864.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,000.0	0.00	0.00	10,964.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,100.0	0.00	0.00	11,064.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,200.0	0.00	0.00	11,164.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,300.0	0.00	0.00	11,264.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,325.5	0.00	0.00	11,290.0	449.3	390.0	-446.3	0.00	0.00	0.00
3rd Bone Spring Carb									
11,400.0	0.00	0.00	11,364.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,500.0	0.00	0.00	11,464.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,600.0	0.00	0.00	11,564.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,700.0	0.00	0.00	11,664.5	449.3	390.0	-446.3	0.00	0.00	0.00
11,717.6	0.00	0.00	11,682.1	449.3	390.0	-446.3	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #131H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3565.0usft (H&P 245)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3565.0usft (H&P 245)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #131H	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)
KOP - Build 10.00									
11,750.0	3.24	174.85	11,714.5	448.4	390.1	-445.3	10.00	10.00	0.00
11,800.0	8.24	174.85	11,764.2	443.4	390.5	-440.4	10.00	10.00	0.00
11,850.0	13.24	174.85	11,813.3	434.2	391.4	-431.1	10.00	10.00	0.00
11,900.0	18.24	174.85	11,861.4	420.7	392.6	-417.6	10.00	10.00	0.00
11,950.0	23.24	174.85	11,908.2	403.0	394.2	-399.9	10.00	10.00	0.00
11,952.0	23.44	174.85	11,910.0	402.2	394.2	-399.1	10.00	10.00	0.00
3rd Bone Spring Sand									
12,000.0	28.24	174.85	11,953.2	381.4	396.1	-378.3	10.00	10.00	0.00
12,050.0	33.24	174.85	11,996.1	356.0	398.4	-352.8	10.00	10.00	0.00
12,100.0	38.24	174.85	12,036.7	326.9	401.0	-323.7	10.00	10.00	0.00
12,150.0	43.24	174.85	12,074.6	294.4	404.0	-291.2	10.00	10.00	0.00
12,200.0	48.24	174.85	12,109.5	258.8	407.2	-255.6	10.00	10.00	0.00
12,250.0	53.24	174.85	12,141.1	220.2	410.6	-217.0	10.00	10.00	0.00
12,300.0	58.24	174.85	12,169.2	179.1	414.4	-175.8	10.00	10.00	0.00
12,350.0	63.24	174.85	12,193.7	135.6	418.3	-132.4	10.00	10.00	0.00
12,400.0	68.24	174.85	12,214.2	90.3	422.4	-86.9	10.00	10.00	0.00
12,416.2	69.85	174.85	12,220.0	75.2	423.7	-71.9	10.00	10.00	0.00
3rd BS W Sand									
12,450.0	73.24	174.85	12,230.7	43.3	426.6	-39.9	10.00	10.00	0.00
12,500.0	78.24	174.85	12,243.0	-5.0	430.9	8.4	10.00	10.00	0.00
12,550.0	83.24	174.85	12,251.1	-54.1	435.4	57.5	10.00	10.00	0.00
12,600.0	88.24	174.85	12,254.8	-103.8	439.8	107.2	10.00	10.00	0.00
12,621.9	90.43	174.85	12,255.0	-125.6	441.8	129.1	10.00	10.00	0.00
EOC/TRN - DLS 2.00 TFO 89.96									
12,700.0	90.43	176.41	12,254.5	-203.4	447.8	206.9	2.00	0.00	2.00
12,800.0	90.43	178.41	12,253.7	-303.3	452.3	306.9	2.00	0.00	2.00
12,856.9	90.43	179.55	12,253.3	-360.2	453.3	363.7	2.00	0.00	2.00
Start 4412.1 hold at 12856.9 MD									
12,900.0	90.43	179.55	12,252.9	-403.3	453.6	406.9	0.00	0.00	0.00
13,000.0	90.43	179.55	12,252.2	-503.3	454.4	506.9	0.00	0.00	0.00
13,100.0	90.43	179.55	12,251.4	-603.3	455.2	606.9	0.00	0.00	0.00
13,200.0	90.43	179.55	12,250.7	-703.3	456.0	706.9	0.00	0.00	0.00
13,300.0	90.43	179.55	12,249.9	-803.3	456.8	806.9	0.00	0.00	0.00
13,400.0	90.43	179.55	12,249.2	-903.3	457.6	906.8	0.00	0.00	0.00
13,500.0	90.43	179.55	12,248.4	-1,003.3	458.4	1,006.8	0.00	0.00	0.00
13,600.0	90.43	179.55	12,247.7	-1,103.3	459.1	1,106.8	0.00	0.00	0.00
13,700.0	90.43	179.55	12,246.9	-1,203.3	459.9	1,206.8	0.00	0.00	0.00
13,800.0	90.43	179.55	12,246.2	-1,303.3	460.7	1,306.8	0.00	0.00	0.00
13,900.0	90.43	179.55	12,245.4	-1,403.3	461.5	1,406.8	0.00	0.00	0.00
14,000.0	90.43	179.55	12,244.7	-1,503.2	462.3	1,506.8	0.00	0.00	0.00
14,100.0	90.43	179.55	12,243.9	-1,603.2	463.1	1,606.8	0.00	0.00	0.00
14,200.0	90.43	179.55	12,243.1	-1,703.2	463.9	1,706.8	0.00	0.00	0.00
14,300.0	90.43	179.55	12,242.4	-1,803.2	464.6	1,806.8	0.00	0.00	0.00
14,400.0	90.43	179.55	12,241.6	-1,903.2	465.4	1,906.8	0.00	0.00	0.00
14,500.0	90.43	179.55	12,240.9	-2,003.2	466.2	2,006.8	0.00	0.00	0.00
14,600.0	90.43	179.55	12,240.1	-2,103.2	467.0	2,106.8	0.00	0.00	0.00
14,700.0	90.43	179.55	12,239.4	-2,203.2	467.8	2,206.8	0.00	0.00	0.00
14,800.0	90.43	179.55	12,238.6	-2,303.2	468.6	2,306.8	0.00	0.00	0.00
14,900.0	90.43	179.55	12,237.9	-2,403.2	469.4	2,406.8	0.00	0.00	0.00
15,000.0	90.43	179.55	12,237.1	-2,503.2	470.2	2,506.8	0.00	0.00	0.00
15,100.0	90.43	179.55	12,236.4	-2,603.2	470.9	2,606.8	0.00	0.00	0.00
15,200.0	90.43	179.55	12,235.6	-2,703.2	471.7	2,706.8	0.00	0.00	0.00

Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #131H
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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3565.0usft (H&P 245)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #131H	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)
15,300.0	90.43	179.55	12,234.8	-2,803.2	472.5	2,806.8	0.00	0.00	0.00
15,400.0	90.43	179.55	12,234.1	-2,903.2	473.3	2,906.8	0.00	0.00	0.00
15,500.0	90.43	179.55	12,233.3	-3,003.2	474.1	3,006.8	0.00	0.00	0.00
15,600.0	90.43	179.55	12,232.6	-3,103.2	474.9	3,106.8	0.00	0.00	0.00
15,700.0	90.43	179.55	12,231.8	-3,203.1	475.7	3,206.8	0.00	0.00	0.00
15,800.0	90.43	179.55	12,231.1	-3,303.1	476.4	3,306.8	0.00	0.00	0.00
15,900.0	90.43	179.55	12,230.3	-3,403.1	477.2	3,406.8	0.00	0.00	0.00
16,000.0	90.43	179.55	12,229.6	-3,503.1	478.0	3,506.8	0.00	0.00	0.00
16,100.0	90.43	179.55	12,228.8	-3,603.1	478.8	3,606.8	0.00	0.00	0.00
16,200.0	90.43	179.55	12,228.1	-3,703.1	479.6	3,706.8	0.00	0.00	0.00
16,300.0	90.43	179.55	12,227.3	-3,803.1	480.4	3,806.8	0.00	0.00	0.00
16,400.0	90.43	179.55	12,226.6	-3,903.1	481.2	3,906.8	0.00	0.00	0.00
16,500.0	90.43	179.55	12,225.8	-4,003.1	482.0	4,006.8	0.00	0.00	0.00
16,600.0	90.43	179.55	12,225.0	-4,103.1	482.7	4,106.8	0.00	0.00	0.00
16,700.0	90.43	179.55	12,224.3	-4,203.1	483.5	4,206.8	0.00	0.00	0.00
16,800.0	90.43	179.55	12,223.5	-4,303.1	484.3	4,306.8	0.00	0.00	0.00
16,900.0	90.43	179.55	12,222.8	-4,403.1	485.1	4,406.7	0.00	0.00	0.00
17,000.0	90.43	179.55	12,222.0	-4,503.1	485.9	4,506.7	0.00	0.00	0.00
17,100.0	90.43	179.55	12,221.3	-4,603.1	486.7	4,606.7	0.00	0.00	0.00
17,200.0	90.43	179.55	12,220.5	-4,703.1	487.5	4,706.7	0.00	0.00	0.00
17,268.9	90.43	179.55	12,220.0	-4,772.0	488.0	4,775.7	0.00	0.00	0.00
TD at 17268.9									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL (Hyperion State #131H)	-0.43	179.55	12,220.0	-4,772.0	488.0	435,787.00	768,285.00	32° 11' 45.339 N	103° 35' 58.779 W
- plan hits target center									
- Rectangle (sides W100.0 H5,172.0 D30.0)									
LTP (Hyperion State #131H)	0.00	0.00	12,220.0	-4,677.0	487.0	435,882.00	768,284.00	32° 11' 46.279 N	103° 35' 58.783 W
- plan misses target center by 0.8usft at 17173.9usft MD (12220.7 TVD, -4677.0 N, 487.3 E)									
- Point									
FTP (Hyperion State #131H)	0.00	0.00	12,255.0	399.0	447.0	440,958.00	768,244.00	32° 12' 36.510 N	103° 35' 58.845 W
- plan misses target center by 206.0usft at 12200.0usft MD (12109.5 TVD, 258.8 N, 407.2 E)									
- Point									

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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3565.0usft (H&P 245)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #131H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,175.0	1,175.0	Rustler Anhydrite			
1,520.0	1,520.0	Top Salt			
4,796.7	4,785.0	Base Salt			
5,038.5	5,025.0	Delaware Mountain Gp			
5,048.5	5,035.0	Lamar			
5,068.7	5,055.0	Bell Canyon			
5,083.8	5,070.0	Ramsey Sand			
5,980.5	5,960.0	Cherry Canyon			
7,446.4	7,415.0	Brushy Canyon			
9,055.5	9,020.0	Bone Spring Lime			
9,215.5	9,180.0	Upper Avalon			
9,455.5	9,420.0	Middle Avalon			
9,820.5	9,785.0	Lower Avalon			
10,080.5	10,045.0	1st Bone Spring Sand			
10,410.5	10,375.0	2nd Bone Spring Carb			
10,735.5	10,700.0	2nd Bone Spring Sand			
11,325.5	11,290.0	3rd Bone Spring Carb			
11,952.0	11,910.0	3rd Bone Spring Sand			
12,416.2	12,220.0	3rd BS W Sand			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
3,000.0	3,000.0	0.0	0.0	NUDGE - Build 2.00
3,350.1	3,349.2	16.1	14.0	HOLD - 4530.3 at 3350.1 MD
7,880.4	7,845.8	433.2	376.0	DROP - -2.00
8,230.5	8,195.0	449.3	390.0	HOLD - 3487.1 at 8230.5 MD
11,717.6	11,682.1	449.3	390.0	KOP - Build 10.00
12,621.9	12,255.0	-125.6	441.8	EOC/TRN - DLS 2.00 TFO 89.96
12,856.9	12,253.3	-360.2	453.3	Start 4412.1 hold at 12856.9 MD
17,268.9	12,220.0	-4,772.0	488.0	TD at 17268.9