

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  
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-46661		<sup>2</sup> Pool Code 98135		<sup>3</sup> Pool Name WC025 G09 S243310P; UPPER WOLFCAMP	
<sup>4</sup> Property Code 325410		<sup>5</sup> Property Name HYPERION STATE			<sup>6</sup> Well Number 215H
<sup>7</sup> OGRID No. 372043		<sup>8</sup> Operator Name TAP ROCK OPERATING, LLC.			<sup>9</sup> Elevation 3538'

<sup>10</sup>Surface Location

UL or lot no. D	Section 20	Township 24-S	Range 33-E	Lot Idn -	Feet from the 522'	North/South line NORTH	Feet from the 565'	East/West line WEST	County LEA
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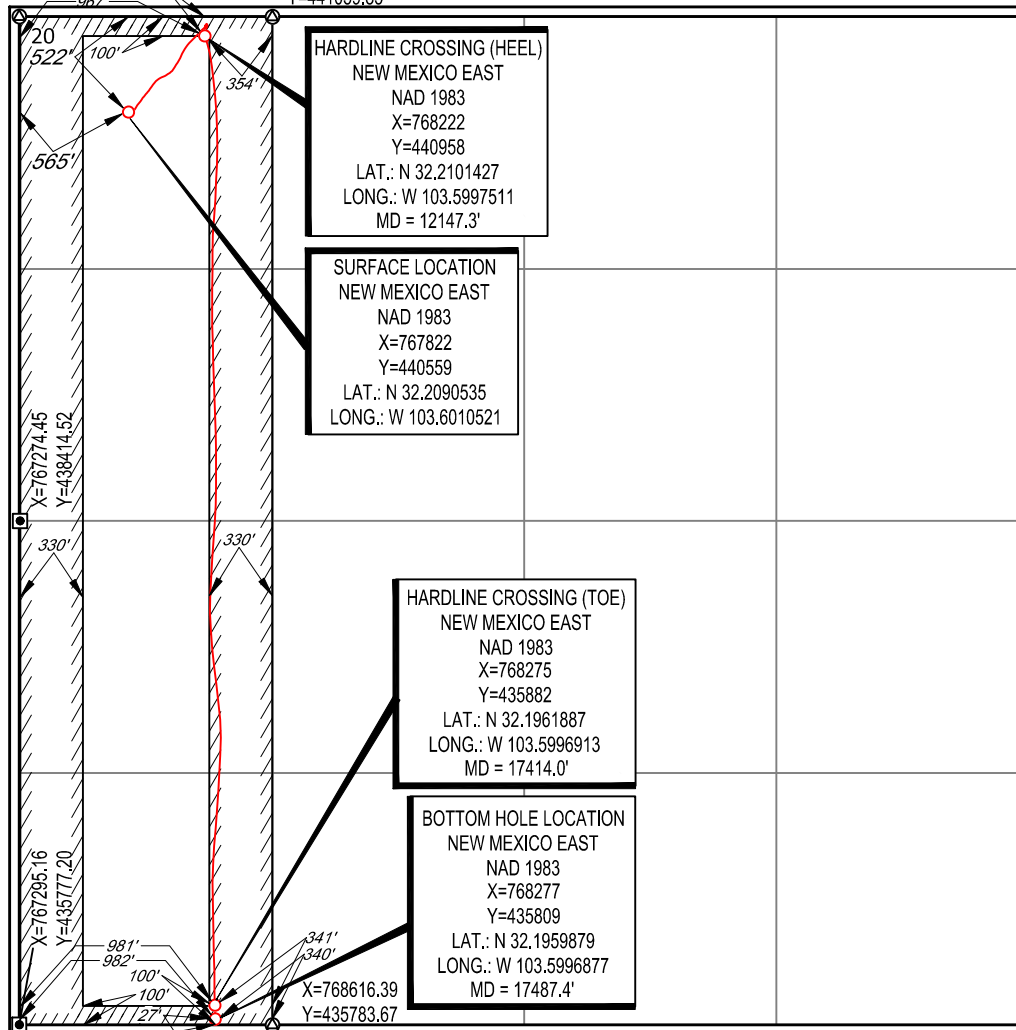
<sup>11</sup>Bottom Hole Location If Different From Surface

UL or lot no. M	Section 20	Township 24-S	Range 33-E	Lot Idn -	Feet from the 27'	North/South line SOUTH	Feet from the 982'	East/West line WEST	County LEA
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<sup>12</sup> Dedicated Acres	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> 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.

X=767253.55  
Y=441053.87  
X=768575.38  
Y=441059.83



<sup>17</sup>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.

*Bill Ramsey*

6/1/2020

Signature

Date

Bill Ramsey

Printed Name

bramsey@taprk.com

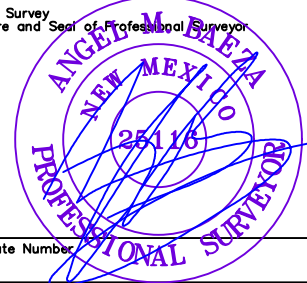
E-mail Address

<sup>18</sup>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.

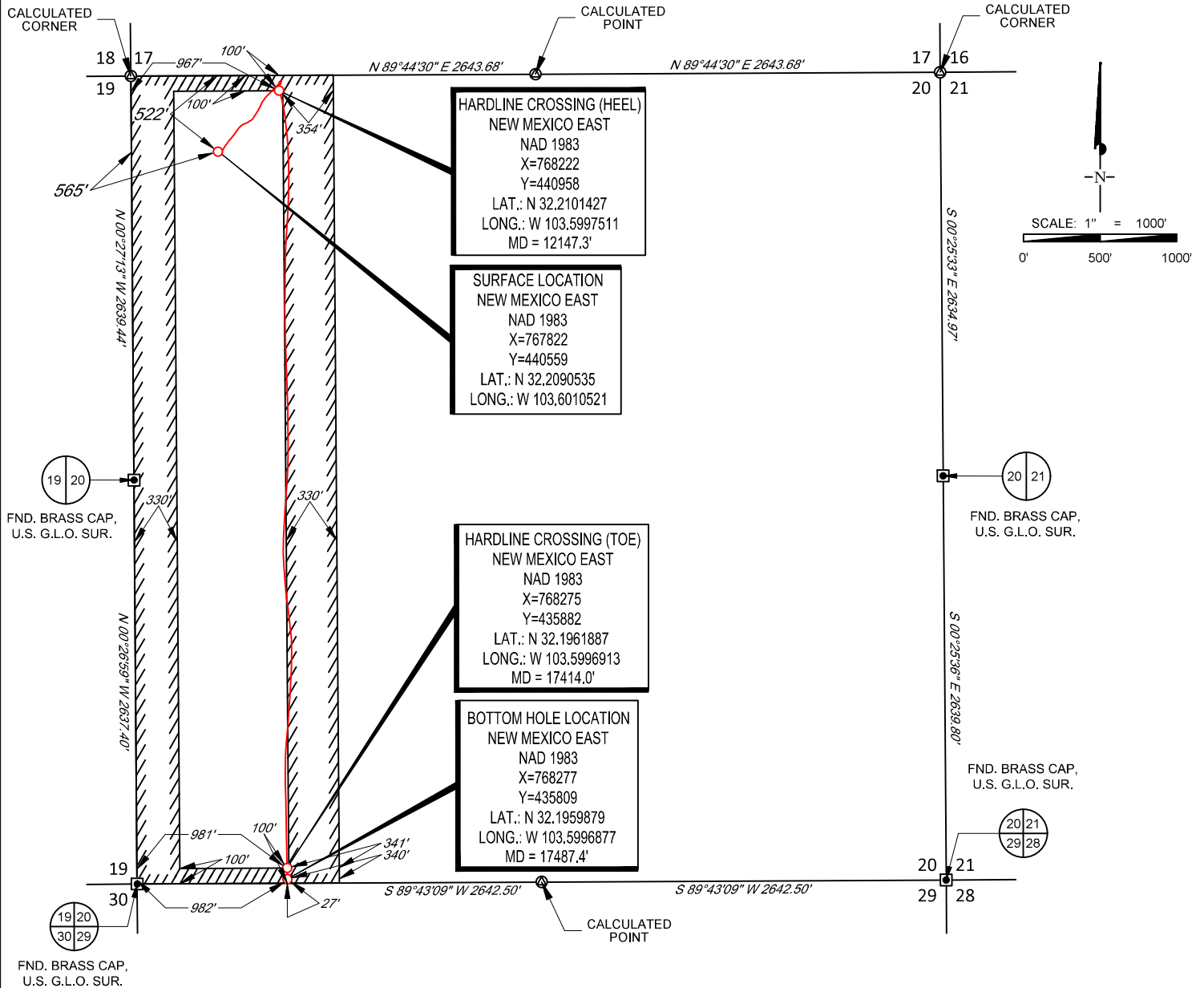
12/26/2019

Date of Survey  
Signature and Seal of Professional Surveyor



Certificate Number

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



LEASE NAME & WELL NO.: \_\_\_\_\_ HYPERION STATE 215H  
SECTION 20 TWP 24-S RGE 33-E SURVEY N.M.P.M.  
COUNTY LEA STATE NM ELEVATION 3538'  
DESCRIPTION 522' FNL & 565' FWL

INTERNAL  
PRE-COMPLETION  
PLAT



**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

HYPERION STATE 215H PRE-COMPLETION	REVISION:	
	INT	DATE
DATE: 05/26/2020		
FILE: C_HYPERION_STATE_215H		
DRAWN BY: A.V.F.		
SHEET: 2 OF 2		

NOTES:

1. ORIGINAL DOCUMENT SIZE: 8.5" X 11"
2. ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREIN ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.
3. THIS WELL 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.



Rec'd 7/21/2020 - NMOCD

# **Tap Rock Resources, LLC**

**Lea County, NM (NAD 83 NME)  
(Hyperion) Sec-20\_T-24-S\_R-33-E  
Hyperion State #215H  
API# 30-025-46661  
OWB**

**Design: AWB**

## **Standard Survey Report**

**17 March, 2020**





Operator: TapRock Resources LLC  
Well Name: Hyperion State #215H  
County: Lea  
State: New Mexico  
Rig Name: H&P 245  
API Number: 30-025-46661

Intrepid Directional Drilling Specialists certifies that the surveys performed on the above referenced well are true and correct MWD surveys, data provided as follows:

Surveyor: Intrepid Directional Drilling Specialists  
Survey Depths: 177' MD – 17,418' MD  
Projection to Bit: 17,489' MD  
Dates Performed: 1/08/2020 – 3/16/2020  
Type of Survey: MWD

Sincerely,

A handwritten signature in blue ink, appearing to read "James Burleson".

James Burleson  
Vice President of MWD Operations  
Intrepid Directional Drilling Specialists



<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

<b>Project</b>	Lea County, NM (NAD 83 NME)		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	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 #215H					
Well Position	+N/-S	0.0 usft	Northing:	440,559.00 usft	Latitude:	32° 12' 32.590 N
	+E/-W	0.0 usft	Easting:	767,822.00 usft	Longitude:	103° 36' 3.788 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,538.0 usft

<b>Wellbore</b>	OWB				
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Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2020/01/03	6.69	60.01	47,663.43028124

<b>Design</b>	AWB				
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<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.0

Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.55

Survey Program		Date	2020/03/17		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
177.0	17,489.0	Intrepid MWD (OWB)	MWD	OWSG MWD - Standard	

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
177.0	0.75	211.35	177.0	-1.0	-0.6	1.0	0.42	0.42	0.00
266.0	0.92	223.83	266.0	-2.0	-1.4	2.0	0.28	0.19	14.02
355.0	0.88	207.75	355.0	-3.1	-2.2	3.1	0.29	-0.04	-18.07
512.0	1.14	191.22	512.0	-5.7	-3.1	5.7	0.25	0.17	-10.53
607.0	1.10	150.70	606.9	-7.4	-2.8	7.4	0.82	-0.04	-42.65
702.0	1.27	106.93	701.9	-8.5	-1.4	8.5	0.94	0.18	-46.07
797.0	1.23	72.92	796.9	-8.6	0.6	8.6	0.77	-0.04	-35.80
892.0	1.05	79.34	891.9	-8.1	2.4	8.1	0.23	-0.19	6.76
986.0	1.32	49.45	985.9	-7.2	4.1	7.3	0.71	0.29	-31.80

<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
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<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

**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)
1,081.0	1.80	31.88	1,080.8	-5.3	5.7	5.3	0.71	0.51	-18.49
1,175.2	1.63	33.18	1,175.0	-2.9	7.3	2.9	0.18	-0.18	1.38
<b>Rustler Anhydrite</b>									
1,176.0	1.63	33.19	1,175.8	-2.9	7.3	2.9	0.18	-0.18	1.52
1,239.0	1.27	73.80	1,238.8	-1.9	8.4	2.0	1.68	-0.57	64.46
1,300.0	1.63	115.46	1,299.7	-2.1	9.9	2.2	1.78	0.59	68.30
1,431.0	1.36	128.29	1,430.7	-3.9	12.8	4.0	0.33	-0.21	9.79
1,520.3	1.41	123.48	1,520.0	-5.1	14.5	5.2	0.14	0.05	-5.38
<b>Top Salt</b>									
1,526.0	1.41	123.19	1,525.7	-5.2	14.6	5.3	0.14	0.06	-5.18
1,621.0	1.45	70.72	1,620.6	-5.4	16.7	5.6	1.33	0.04	-55.23
1,715.0	1.93	52.27	1,714.6	-4.1	19.1	4.2	0.77	0.51	-19.63
1,810.0	1.54	52.71	1,809.6	-2.3	21.4	2.5	0.41	-0.41	0.46
1,905.0	1.23	42.95	1,904.5	-0.8	23.1	1.0	0.41	-0.33	-10.27
2,000.0	1.01	36.01	1,999.5	0.6	24.3	-0.4	0.27	-0.23	-7.31
2,094.0	0.79	37.50	2,093.5	1.8	25.2	-1.6	0.24	-0.23	1.59
2,189.0	0.75	17.81	2,188.5	2.9	25.8	-2.7	0.28	-0.04	-20.73
2,284.0	0.75	17.90	2,283.5	4.1	26.1	-3.9	0.00	0.00	0.09
2,379.0	2.02	36.89	2,378.5	6.0	27.3	-5.8	1.40	1.34	19.99
2,474.0	3.82	38.56	2,473.3	9.8	30.3	-9.6	1.90	1.89	1.76
2,568.0	5.10	31.35	2,567.0	15.9	34.4	-15.6	1.48	1.36	-7.67
2,663.0	7.43	31.52	2,661.5	24.7	39.8	-24.4	2.45	2.45	0.18
2,758.0	8.79	35.74	2,755.5	35.8	47.3	-35.5	1.56	1.43	4.44
2,853.0	8.04	35.22	2,849.5	47.2	55.4	-46.7	0.79	-0.79	-0.55
2,947.0	7.16	36.18	2,942.7	57.2	62.6	-56.8	0.95	-0.94	1.02
3,042.0	6.64	37.06	3,037.0	66.4	69.4	-65.9	0.56	-0.55	0.93
3,137.0	5.80	37.50	3,131.4	74.6	75.7	-74.0	0.89	-0.88	0.46
3,231.0	5.58	39.61	3,225.0	81.9	81.5	-81.2	0.32	-0.23	2.24
3,326.0	4.75	40.40	3,319.6	88.4	87.0	-87.8	0.88	-0.87	0.83
3,421.0	4.62	39.79	3,414.3	94.4	92.0	-93.7	0.15	-0.14	-0.64
3,516.0	5.14	38.47	3,508.9	100.7	97.1	-99.9	0.56	0.55	-1.39
3,611.0	4.18	41.81	3,603.6	106.6	102.0	-105.8	1.05	-1.01	3.52
3,706.0	5.45	38.12	3,698.3	112.7	107.1	-111.9	1.38	1.34	-3.88
3,801.0	5.93	33.46	3,792.8	120.3	112.6	-119.5	0.70	0.51	-4.91
3,895.0	4.09	28.71	3,886.4	127.3	116.9	-126.4	2.00	-1.96	-5.05
3,990.0	5.45	35.48	3,981.1	134.0	121.1	-133.0	1.55	1.43	7.13
4,085.0	8.53	40.31	4,075.4	143.0	128.3	-142.0	3.30	3.24	5.08
4,180.0	7.38	37.94	4,169.5	153.2	136.6	-152.1	1.26	-1.21	-2.49
4,274.0	6.51	42.16	4,262.8	161.9	143.9	-160.8	1.07	-0.93	4.49
4,369.0	5.76	56.13	4,357.2	168.6	151.5	-167.4	1.75	-0.79	14.71
4,464.0	5.36	56.40	4,451.8	173.7	159.1	-172.4	0.42	-0.42	0.28
4,559.0	5.01	58.24	4,546.4	178.3	166.4	-177.0	0.41	-0.37	1.94
4,654.0	5.10	67.38	4,641.0	182.1	173.8	-180.8	0.85	0.09	9.62
4,749.0	5.41	67.56	4,735.6	185.5	181.8	-184.0	0.33	0.33	0.19

<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

**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)
4,798.6	5.75	65.67	4,785.0	187.4	186.2	-185.9	0.78	0.69	-3.81
<b>Base Salt</b>									
4,844.0	6.07	64.13	4,830.2	189.4	190.5	-187.9	0.78	0.70	-3.39
4,938.0	5.80	56.05	4,923.7	194.2	198.9	-192.6	0.93	-0.29	-8.60
5,033.0	4.88	60.18	5,018.2	198.9	206.4	-197.2	1.05	-0.97	4.35
5,039.8	4.79	59.89	5,025.0	199.2	206.9	-197.5	1.38	-1.34	-4.21
<b>Delaware Mountain Gp</b>									
5,049.8	4.66	59.45	5,035.0	199.6	207.6	-197.9	1.38	-1.33	-4.42
<b>Lamar</b>									
5,064.9	4.46	58.74	5,050.0	200.2	208.6	-198.5	1.38	-1.33	-4.75
<b>Bell Canyon</b>									
5,066.0	4.44	58.68	5,051.1	200.2	208.7	-198.6	1.38	-1.33	-4.98
5,079.9	4.38	58.58	5,065.0	200.8	209.6	-199.1	0.43	-0.43	-0.75
<b>Ramsey Sand</b>									
5,210.0	3.82	57.45	5,194.8	205.7	217.5	-204.0	0.43	-0.43	-0.87
5,305.0	4.66	48.22	5,289.5	210.0	223.0	-208.2	1.14	0.88	-9.72
5,399.0	5.85	38.73	5,383.1	216.3	228.9	-214.5	1.56	1.27	-10.10
5,494.0	7.38	32.76	5,477.5	225.2	235.2	-223.3	1.76	1.61	-6.28
5,589.0	8.26	32.58	5,571.6	236.1	242.2	-234.2	0.93	0.93	-0.19
5,684.0	8.44	31.96	5,665.6	247.7	249.6	-245.8	0.21	0.19	-0.65
5,779.0	8.62	31.61	5,759.5	259.7	257.0	-257.7	0.20	0.19	-0.37
5,874.0	8.31	29.06	5,853.5	271.8	264.0	-269.7	0.51	-0.33	-2.68
5,969.0	7.82	27.48	5,947.5	283.5	270.4	-281.4	0.57	-0.52	-1.66
5,981.6	7.84	27.13	5,960.0	285.0	271.1	-282.9	0.41	0.14	-2.82
<b>Cherry Canyon</b>									
6,064.0	7.96	24.84	6,041.6	295.2	276.1	-293.0	0.41	0.15	-2.77
6,158.0	7.91	24.14	6,134.7	307.0	281.5	-304.8	0.12	-0.05	-0.74
6,253.0	7.74	28.80	6,228.9	318.6	287.2	-316.3	0.69	-0.18	4.91
6,348.0	7.91	35.74	6,323.0	329.5	294.1	-327.2	1.01	0.18	7.31
6,443.0	8.09	35.92	6,417.1	340.2	301.9	-337.8	0.19	0.19	0.19
6,538.0	8.44	36.18	6,511.1	351.3	309.9	-348.8	0.37	0.37	0.27
6,633.0	8.35	40.93	6,605.1	362.1	318.5	-359.6	0.74	-0.09	5.00
6,728.0	7.87	46.64	6,699.1	371.8	327.8	-369.2	0.99	-0.51	6.01
6,823.0	7.30	45.41	6,793.3	380.5	336.8	-377.8	0.62	-0.60	-1.29
6,917.0	7.08	43.65	6,886.5	388.9	345.1	-386.1	0.33	-0.23	-1.87
7,012.0	6.81	44.18	6,980.8	397.1	353.0	-394.4	0.29	-0.28	0.56
7,107.0	6.77	44.62	7,075.2	405.2	360.9	-402.3	0.07	-0.04	0.46
7,202.0	7.08	43.57	7,169.5	413.4	368.9	-410.5	0.35	0.33	-1.11
7,297.0	6.86	43.39	7,263.8	421.8	376.8	-418.8	0.23	-0.23	-0.19
7,392.0	6.90	44.88	7,358.1	429.9	384.7	-426.9	0.19	0.04	1.57
7,449.3	6.71	45.09	7,415.0	434.7	389.5	-431.7	0.33	-0.33	0.37
<b>Brushy Canyon</b>									
7,487.0	6.59	45.24	7,452.4	437.8	392.6	-434.7	0.33	-0.33	0.39
7,581.0	6.11	46.91	7,545.9	445.0	400.1	-441.9	0.55	-0.51	1.78
7,676.0	4.35	43.57	7,640.5	451.1	406.3	-447.9	1.88	-1.85	-3.52

<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

**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)
7,771.0	2.55	26.25	7,735.3	455.6	409.7	-452.4	2.17	-1.89	-18.23
7,866.0	0.57	353.64	7,830.2	458.0	410.6	-454.7	2.20	-2.08	-34.33
7,961.0	0.62	256.52	7,925.2	458.3	410.0	-455.1	0.94	0.05	-102.23
8,055.0	0.66	244.57	8,019.2	458.0	409.0	-454.7	0.15	0.04	-12.71
8,150.0	0.84	214.25	8,114.2	457.1	408.2	-453.9	0.45	0.19	-31.92
8,242.0	1.19	228.14	8,206.2	455.9	407.1	-452.7	0.46	0.38	15.10
8,337.0	1.41	213.11	8,301.2	454.3	405.7	-451.1	0.43	0.23	-15.82
8,432.0	0.84	70.37	8,396.2	453.6	405.7	-450.4	2.25	-0.60	-150.25
8,527.0	0.97	70.90	8,491.2	454.1	407.1	-450.9	0.14	0.14	0.56
8,621.0	1.14	86.63	8,585.2	454.4	408.8	-451.2	0.36	0.18	16.73
8,716.0	0.44	67.12	8,680.1	454.6	410.1	-451.3	0.78	-0.74	-20.54
8,811.0	0.44	160.02	8,775.1	454.4	410.6	-451.1	0.67	0.00	97.79
8,906.0	0.18	114.49	8,870.1	454.0	410.8	-450.7	0.36	-0.27	-47.93
9,001.0	0.70	214.69	8,965.1	453.4	410.6	-450.2	0.79	0.55	105.47
9,075.9	0.91	254.04	9,040.0	452.9	409.8	-449.7	0.77	0.27	52.56
<b>Bone Spring Lime</b>									
9,096.0	1.01	260.83	9,060.1	452.8	409.5	-449.6	0.77	0.52	33.71
9,190.0	1.54	255.56	9,154.1	452.4	407.4	-449.2	0.58	0.56	-5.61
9,240.9	1.15	273.39	9,205.0	452.2	406.2	-449.0	1.11	-0.76	35.02
<b>Upper Avalon</b>									
9,286.0	0.97	298.89	9,250.1	452.4	405.5	-449.2	1.11	-0.41	56.55
9,380.0	1.27	271.91	9,344.1	452.9	403.7	-449.7	0.64	0.32	-28.70
9,475.0	0.57	282.54	9,439.1	453.0	402.2	-449.8	0.76	-0.74	11.19
9,475.9	0.57	282.54	9,440.0	453.0	402.2	-449.8	0.00	0.00	0.00
<b>Middle Avalon</b>									
9,570.0	0.44	288.96	9,534.1	453.2	401.4	-450.1	0.15	-0.14	6.83
9,665.0	0.66	135.94	9,629.0	452.9	401.4	-449.8	1.13	0.23	-161.07
9,760.0	0.48	108.78	9,724.0	452.4	402.2	-449.3	0.34	-0.19	-28.59
9,846.0	0.59	59.00	9,810.0	452.5	402.9	-449.4	0.54	0.13	-57.92
<b>Lower Avalon</b>									
9,855.0	0.62	55.43	9,819.0	452.6	403.0	-449.4	0.54	0.34	-39.43
9,950.0	0.53	68.70	9,914.0	453.0	403.8	-449.9	0.17	-0.09	13.97
10,045.0	0.57	39.52	10,009.0	453.6	404.5	-450.4	0.29	0.04	-30.72
10,106.0	0.80	33.00	10,070.0	454.2	405.0	-451.0	0.39	0.37	-10.69
<b>1st Bone Spring Sand</b>									
10,139.0	0.92	30.82	10,103.0	454.6	405.2	-451.4	0.39	0.38	-6.61
10,234.0	1.14	24.76	10,198.0	456.1	406.0	-452.9	0.26	0.23	-6.38
10,329.0	0.84	15.70	10,293.0	457.6	406.6	-454.4	0.36	-0.32	-9.54
10,424.0	1.27	10.61	10,388.0	459.3	407.0	-456.1	0.46	0.45	-5.36
10,431.0	1.29	13.46	10,395.0	459.5	407.0	-456.3	0.95	0.30	40.54
<b>2nd Bone Spring Carb</b>									
10,519.0	1.76	40.14	10,482.9	461.5	408.1	-458.3	0.95	0.53	30.33
10,614.0	1.54	132.86	10,577.9	461.7	410.0	-458.5	2.52	-0.23	97.60
10,709.0	2.42	137.87	10,672.9	459.4	412.3	-456.1	0.94	0.93	5.27



<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

**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)
10,756.2	2.04	154.36	10,720.0	457.9	413.3	-454.6	1.57	-0.80	34.96
<b>2nd Bone Spring Sand</b>									
10,805.0	1.89	176.46	10,768.8	456.3	413.7	-453.0	1.57	-0.31	45.26
10,900.0	1.58	193.24	10,863.8	453.4	413.5	-450.2	0.62	-0.33	17.66
10,995.0	1.67	200.54	10,958.7	450.9	412.7	-447.6	0.24	0.09	7.68
11,090.0	2.07	225.59	11,053.7	448.4	411.0	-445.1	0.95	0.42	26.37
11,185.0	0.84	187.88	11,148.6	446.5	409.7	-443.2	1.58	-1.29	-39.69
11,280.0	1.19	159.76	11,243.6	444.9	410.0	-441.6	0.63	0.37	-29.60
11,331.4	1.39	169.74	11,295.0	443.8	410.2	-440.5	0.58	0.38	19.42
<b>3rd Bone Spring Carb</b>									
11,375.0	1.58	176.10	11,338.6	442.6	410.4	-439.4	0.58	0.44	14.58
11,469.0	1.76	214.34	11,432.6	440.1	409.7	-436.9	1.18	0.19	40.68
11,564.0	1.71	253.36	11,527.5	438.5	407.5	-435.3	1.22	-0.05	41.07
11,659.0	2.15	255.56	11,622.5	437.7	404.4	-434.5	0.47	0.46	2.32
11,754.0	2.68	248.97	11,717.4	436.4	400.6	-433.3	0.63	0.56	-6.94
11,836.0	2.51	241.85	11,799.3	434.9	397.2	-431.8	0.44	-0.21	-8.68
11,941.8	2.78	231.00	11,905.0	432.2	393.2	-429.1	0.54	0.26	-10.25
<b>3rd Bone Spring Sand</b>									
11,966.0	2.86	228.84	11,929.2	431.4	392.3	-428.3	0.54	0.31	-8.95
12,061.0	9.71	168.19	12,023.6	422.0	392.1	-418.9	9.13	7.21	-63.84
12,147.2	22.80	159.13	12,106.2	399.2	399.6	-396.0	15.43	15.19	-10.51
<b>FTP @ 12147.2'MD, 100'FNL &amp; 354.4'FEL</b>									
12,155.0	24.00	158.79	12,113.3	396.3	400.7	-393.1	15.43	15.33	-4.38
12,248.0	29.71	163.01	12,196.3	356.6	414.3	-353.3	6.47	6.14	4.54
12,306.2	36.49	166.54	12,245.0	325.9	422.5	-322.6	12.11	11.65	6.06
<b>3rd BS W Sand</b>									
12,342.0	40.70	168.19	12,273.0	304.1	427.4	-300.8	12.11	11.76	4.61
12,421.9	48.20	172.97	12,330.0	249.0	436.4	-245.5	10.28	9.39	5.98
<b>Wolfcamp A X Sand</b>									
12,435.0	49.45	173.64	12,338.6	239.2	437.6	-235.7	10.28	9.52	5.14
12,530.0	53.93	173.56	12,397.5	165.1	445.9	-161.6	4.72	4.72	-0.08
12,606.0	58.08	174.48	12,440.0	102.5	452.4	-98.9	5.55	5.46	1.21
<b>Wolfcamp A Y Sand</b>									
12,625.0	59.12	174.70	12,449.9	86.3	453.9	-82.8	5.55	5.47	1.14
12,719.0	65.58	177.42	12,493.5	3.3	459.6	0.3	7.33	6.87	2.89
12,812.0	75.47	178.21	12,524.5	-84.2	462.9	87.8	10.66	10.63	0.85
12,863.8	81.03	178.99	12,535.0	-134.9	464.2	138.5	10.84	10.74	1.50
<b>Wolfcamp A Lower</b>									
12,907.0	85.67	179.62	12,540.0	-177.8	464.7	181.4	10.84	10.74	1.46
13,001.0	90.81	182.43	12,542.9	-271.7	463.0	275.3	6.23	5.47	2.99
13,091.0	90.02	182.87	12,542.2	-361.6	458.8	365.2	1.00	-0.88	0.49
13,185.0	87.52	182.26	12,544.3	-455.4	454.6	459.0	2.74	-2.66	-0.65
13,280.0	93.10	185.42	12,543.7	-550.2	448.3	553.7	6.75	5.87	3.33
13,373.0	88.88	181.82	12,542.1	-642.9	442.4	646.4	5.96	-4.54	-3.87
13,468.0	86.24	180.59	12,546.2	-737.8	440.4	741.3	3.07	-2.78	-1.29

<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

**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)
13,562.0	86.81	180.50	12,551.9	-831.6	439.5	835.1	0.61	0.61	-0.10
13,656.0	86.68	180.85	12,557.2	-925.5	438.4	928.9	0.40	-0.14	0.37
13,751.0	87.43	179.80	12,562.1	-1,020.4	437.9	1,023.8	1.36	0.79	-1.11
13,845.0	88.62	178.92	12,565.3	-1,114.3	438.9	1,117.7	1.57	1.27	-0.94
13,938.0	90.07	178.13	12,566.4	-1,207.3	441.3	1,210.7	1.78	1.56	-0.85
14,032.0	90.99	178.30	12,565.5	-1,301.2	444.2	1,304.7	1.00	0.98	0.18
14,127.0	91.52	178.30	12,563.4	-1,396.1	447.1	1,399.6	0.56	0.56	0.00
14,222.0	91.34	177.77	12,561.1	-1,491.1	450.3	1,494.5	0.59	-0.19	-0.56
14,317.0	89.80	177.16	12,560.1	-1,586.0	454.5	1,589.5	1.74	-1.62	-0.64
14,411.0	92.66	179.44	12,558.1	-1,679.9	457.3	1,683.4	3.89	3.04	2.43
14,505.0	92.75	179.62	12,553.7	-1,773.8	458.1	1,777.3	0.21	0.10	0.19
14,600.0	92.92	179.88	12,549.0	-1,868.7	458.5	1,872.2	0.33	0.18	0.27
14,694.0	92.97	179.88	12,544.1	-1,962.5	458.7	1,966.1	0.05	0.05	0.00
14,789.0	90.77	181.64	12,541.0	-2,057.5	457.4	2,061.0	2.96	-2.32	1.85
14,884.0	88.35	184.19	12,541.8	-2,152.3	452.6	2,155.8	3.70	-2.55	2.68
14,978.0	88.31	184.28	12,544.5	-2,246.0	445.7	2,249.5	0.10	-0.04	0.10
15,073.0	87.30	183.40	12,548.2	-2,340.7	439.3	2,344.1	1.41	-1.06	-0.93
15,165.0	89.76	182.70	12,550.5	-2,432.6	434.4	2,435.9	2.78	2.67	-0.76
15,259.0	91.12	183.49	12,549.8	-2,526.4	429.3	2,529.7	1.67	1.45	0.84
15,353.0	89.85	179.09	12,549.0	-2,620.4	427.2	2,623.6	4.87	-1.35	-4.68
15,447.0	89.19	175.58	12,549.8	-2,714.3	431.6	2,717.6	3.80	-0.70	-3.73
15,541.0	91.16	175.75	12,549.5	-2,808.0	438.7	2,811.3	2.10	2.10	0.18
15,636.0	91.65	172.76	12,547.2	-2,902.5	448.2	2,905.9	3.19	0.52	-3.15
15,729.0	87.96	171.27	12,547.5	-2,994.5	461.1	2,998.1	4.28	-3.97	-1.60
15,917.0	88.22	176.46	12,553.8	-3,181.3	481.2	3,185.0	2.76	0.14	2.76
16,012.0	92.66	180.94	12,553.0	-3,276.2	483.3	3,279.9	6.64	4.67	4.72
16,107.0	90.81	182.52	12,550.1	-3,371.1	480.5	3,374.8	2.56	-1.95	1.66
16,202.0	92.35	182.87	12,547.5	-3,466.0	476.0	3,469.6	1.66	1.62	0.37
16,297.0	90.81	183.05	12,544.9	-3,560.8	471.1	3,564.4	1.63	-1.62	0.19
16,391.0	92.35	185.07	12,542.3	-3,654.5	464.5	3,658.1	2.70	1.64	2.15
16,486.0	88.09	184.19	12,542.0	-3,749.2	456.8	3,752.7	4.58	-4.48	-0.93
16,580.0	87.52	184.72	12,545.6	-3,842.9	449.5	3,846.3	0.83	-0.61	0.56
16,674.0	87.87	183.22	12,549.3	-3,936.5	443.0	3,939.9	1.64	0.37	-1.60
16,769.0	88.35	179.97	12,552.5	-4,031.4	440.4	4,034.8	3.46	0.51	-3.42
16,864.0	91.25	178.65	12,552.8	-4,126.4	441.5	4,129.8	3.35	3.05	-1.39
16,958.0	91.21	178.48	12,550.8	-4,220.4	443.8	4,223.7	0.19	-0.04	-0.18
17,052.0	91.87	179.01	12,548.3	-4,314.3	445.9	4,317.7	0.90	0.70	0.56
17,146.0	87.65	178.74	12,548.7	-4,408.3	447.8	4,411.7	4.50	-4.49	-0.29
17,240.0	87.25	179.09	12,552.8	-4,502.2	449.5	4,505.6	0.57	-0.43	0.37
17,334.0	86.11	178.92	12,558.3	-4,596.0	451.2	4,599.4	1.23	-1.21	-0.18
17,415.3	84.32	178.75	12,565.1	-4,677.0	452.8	4,680.4	2.21	-2.20	-0.21
<b>LTP @ 17415.3'MD, 100'FSL &amp; 340.8'FEL</b>									
17,418.0	84.26	178.74	12,565.3	-4,679.7	452.9	4,683.1	2.21	-2.20	-0.21

<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

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)
<b>LAST SVY</b>									
17,489.0	84.26	178.74	12,572.4	-4,750.3	454.4	4,753.7	0.00	0.00	0.00
<b>Projection to TD @ 17489'MD, 26.7'FSL &amp; 339.8'FEL</b>									

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
LTP (Hyperion State #	- actual wellpath misses target center by 32.3usft at 17412.9usft MD (12564.8 TVD, -4674.6 N, 452.8 E)	0.00	0.00	12,534.0	-4,677.0	462.0	435,882.00	768,284.00	32° 11' 46.279 N 103° 35' 58.783 W
- Point									
PBHL (Hyperion State	- actual wellpath misses target center by 45.0usft at 17489.0usft MD (12572.4 TVD, -4750.3 N, 454.4 E)	-0.20	179.55	12,534.0	-4,772.0	463.0	435,787.00	768,285.00	32° 11' 45.339 N 103° 35' 58.779 W
- Rectangle (sides W100.0 H5,172.0 D30.0)									
FTP (Hyperion State #	- actual wellpath misses target center by 266.0usft at 12440.7usft MD (12342.3 TVD, 234.9 N, 438.0 E)	0.00	0.00	12,551.0	399.0	422.0	440,958.00	768,244.00	32° 12' 36.510 N 103° 35' 58.845 W
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,175.2	1,175.0	Rustler Anhydrite				
1,520.3	1,520.0	Top Salt				
4,798.6	4,785.0	Base Salt				
5,039.8	5,025.0	Delaware Mountain Gp				
5,049.8	5,035.0	Lamar				
5,064.9	5,050.0	Bell Canyon				
5,079.9	5,065.0	Ramsey Sand				
5,981.6	5,960.0	Cherry Canyon				
7,449.3	7,415.0	Brushy Canyon				
9,075.9	9,040.0	Bone Spring Lime				
9,240.9	9,205.0	Upper Avalon				
9,475.9	9,440.0	Middle Avalon				
9,846.0	9,810.0	Lower Avalon				
10,106.0	10,070.0	1st Bone Spring Sand				
10,431.0	10,395.0	2nd Bone Spring Carb				
10,756.2	10,720.0	2nd Bone Spring Sand				
11,331.4	11,295.0	3rd Bone Spring Carb				
11,941.8	11,905.0	3rd Bone Spring Sand				
12,306.2	12,245.0	3rd BS W Sand				
12,421.9	12,330.0	Wolfcamp A X Sand				
12,606.0	12,440.0	Wolfcamp A Y Sand				
12,863.8	12,535.0	Wolfcamp A Lower				



<b>Company:</b>	Tap Rock Resources, LLC	<b>Local Co-ordinate Reference:</b>	Well Hyperion State #215H
<b>Project:</b>	Lea County, NM (NAD 83 NME)	<b>TVD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Site:</b>	(Hyperion) Sec-20_T-24-S_R-33-E	<b>MD Reference:</b>	KB @ 3564.0usft (H&P 245)
<b>Well:</b>	Hyperion State #215H	<b>North Reference:</b>	Grid
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	AWB	<b>Database:</b>	EDM 5000.15 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,147.2	12,106.2	399.2	399.6	FTP @ 12147.2'MD, 100'FNL & 354.4'FEL
17,415.3	12,565.1	-4,677.0	452.8	LTP @ 17415.3'MD, 100'FSL & 340.8'FEL
17,418.0	12,565.3	-4,679.7	452.9	LAST SVY
17,489.0	12,572.4	-4,750.3	454.4	Projection to TD @ 17489'MD, 26.7'FSL & 339.8'FEL

Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_