

Submit 1 Copy To Appropriate District Office

District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88241
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
HOBBS OCD
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-103
Revised July 18, 2013

RECEIVED FEB 20 2020		WELL API NO. 30-025-46765
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.
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>C</u> : 631 feet from the <u>NORTH</u> line and 1840 feet from the <u>WEST</u> line Section <u>20</u> Township <u>24S</u> Range <u>33E</u> NMPM County <u>LEA</u>		8. Well Number 137H
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3542		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 Lateral Location and Depth. Change results in the following:

BHL will be 5' from South Line & 2320' from East Line of Sec 20, T24S, R33E, Lea County, NM which is a shift from W2 to E2 of Sec 20.
New Depths will be 17,801' MD & 12,710' TVD
First Take Point is 100' FNL & 2310 FEL, Last Take Point is 100' FSL and 2310 FEL
An Update C-102 Well Location & Acreage Dedication Plat & Directional Drill Plan are attached to this submission.

Updated Casing Plan is:

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Est. TOC
Surf	17.5	13.375	54.5	1250	1200	0
Int 1	12.25	9.625	40	5065	1350	0
Int 2	8.75	7.625	29.7	12150	500	4000
Prod	6.75	5.5	20	11950	0	11450
Prod	6.75	5	18	17800	750	11450

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 2/17/2020

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

For State Use Only

APPROVED BY: [Signature] TITLE Petroleum Engineer DATE 02/23/2020
Conditions of Approval (if any):

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (505) 393-6161 Fax: (505) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (505) 748-1283 Fax: (505) 748-9720
District III
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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

HOBBS OCD

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

FEB 20 2020

RECEIVED

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46765	² Pool Code 98135	³ Pool Name WC025 G09 S243310P; UPPER WOLFCAMP
⁴ Property Code	⁵ Property Name HYPERION STATE	⁶ Well Number 137H
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3543'

¹⁰Surface Location

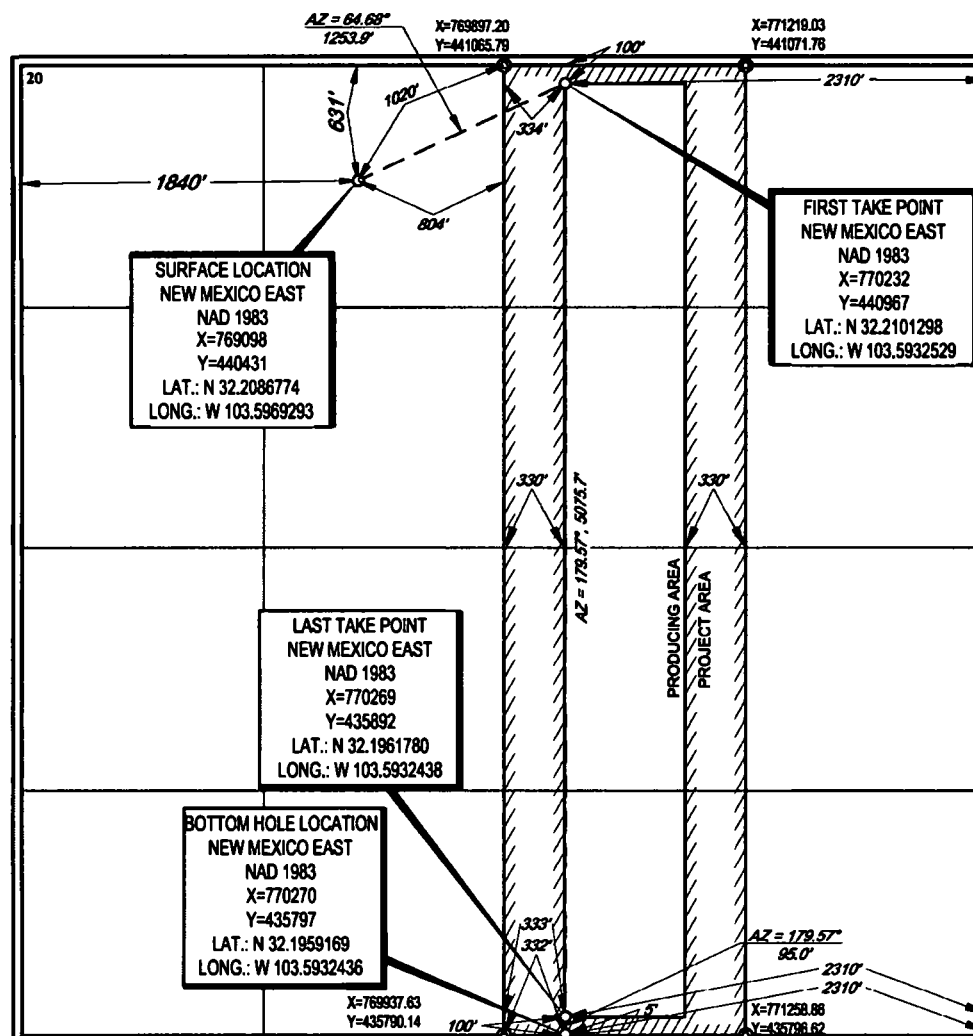
UL or lot no. C	Section 20	Township 24-S	Range 33-E	Lot Idn -	Feet from the 631'	North/South line NORTH	Feet from the 1840'	East/West line WEST	County LEA
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¹¹Bottom Hole Location If Different From Surface

UL or lot no. O	Section 20	Township 24-S	Range 33-E	Lot Idn -	Feet from the 5'	North/South line SOUTH	Feet from the 2310'	East/West line EAST	County LEA
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¹² Dedicated Acres	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.



¹⁷OPERATOR CERTIFICATION

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

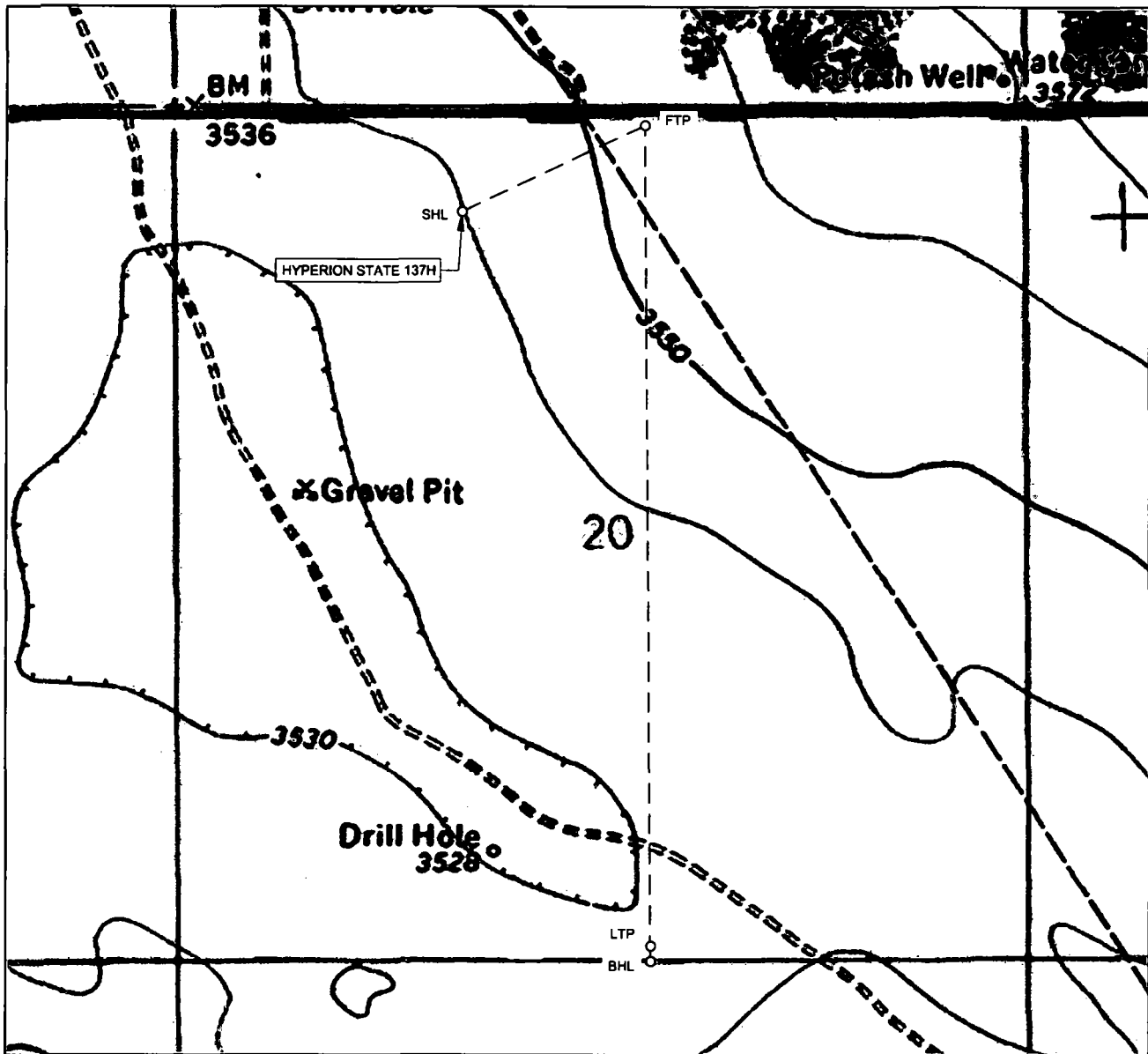
Signature: *CCC* Date: 2/18/2020
Printed Name: Christian Combs
E-mail Address: ccombs@taprk.com

¹⁸SURVEYOR CERTIFICATION

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

Date of Survey: 01/08/2020
Signature and Seal of Professional Surveyor: *[Signature]*
Certificate Number: 11401

LOCATION & ELEVATION VERIFICATION MAP



LEASE NAME & WELL NO.: HYPERION STATE 137H

SECTION 20 TWP 24-S RGE 33-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3543'
 DESCRIPTION 631' FNL & 1840' FWL

LATITUDE N 32.2086774 LONGITUDE W 103.5969293



SCALE: 1" = 1000'
 0' 500' 1000'

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC. THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.

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.



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) 682-1853 OR (800) 787-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



SECTION 20 TWP 24-S RGE 33-E SURVEY N.M.P.M.
COUNTY LEA STATE NM
DESCRIPTION 631' FNL & 1840' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-128 & DELAWARE BASIN RD., GO WEST ON
NM-128 ±5.4 MILES, THENCE SOUTH (LEFT) ON A LEASE RD. ±880
FEET, THENCE NORTHEAST (LEFT) ON A PROPOSED RD. ±1827
FEET TO A POINT ±219 FEET NORTHWEST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET.



SCALE: 1" = 10000'



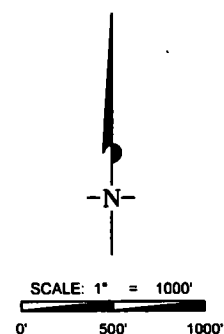
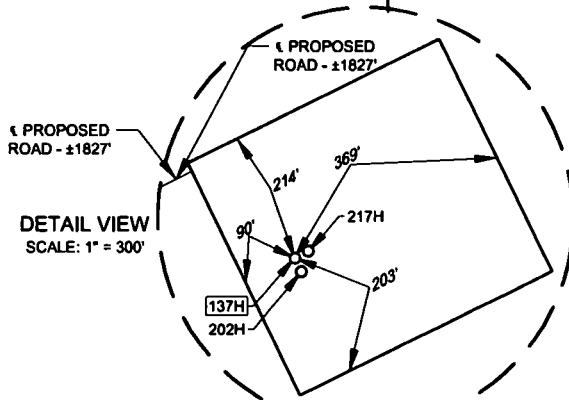
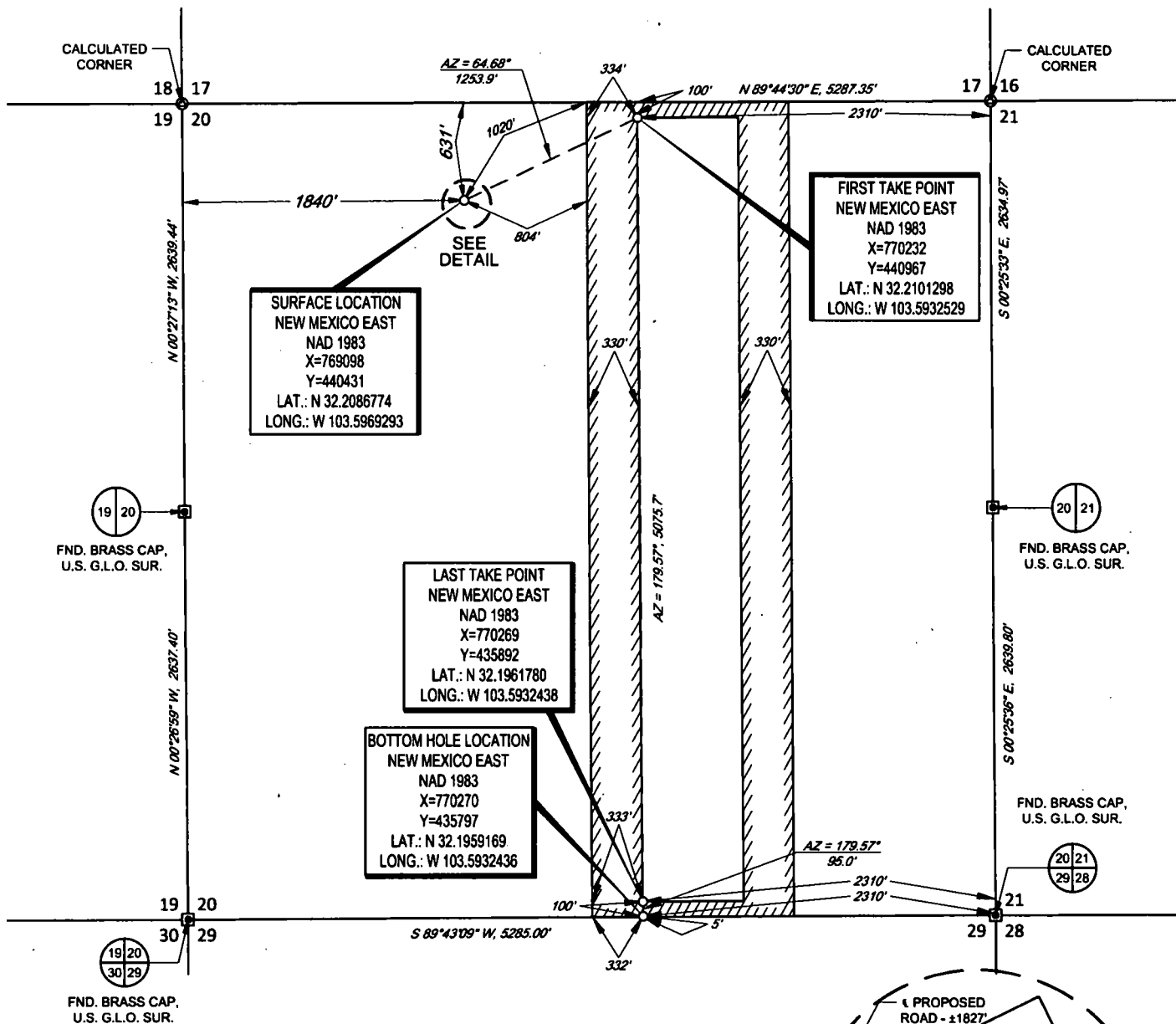
0' 5000' 10000'



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TAP ROCK EXHIBIT 2A

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



LEASE NAME & WELL NO.: HYPERION STATE 137H

SECTION 20 TWP 24-S RGE 33-E SURVEY N.M.P.M.

COUNTY LEA STATE NM

DESCRIPTION 631' FNL & 1840' FWL

DISTANCE & DIRECTION
FROM INT. OF NM-128 & DELAWARE BASIN RD., GO WEST ON NM-128
±5.4 MILES, THENCE SOUTH (LEFT) ON A LEASE RD. ±880 FEET,
THENCE NORTHEAST (LEFT) ON A PROPOSED RD. ±1827 FEET TO A
POINT ±219 FEET NORTHWEST OF THE LOCATION.

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID
BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY
FEET.

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND
UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF
SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND
LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS
NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSACTION ONLY.



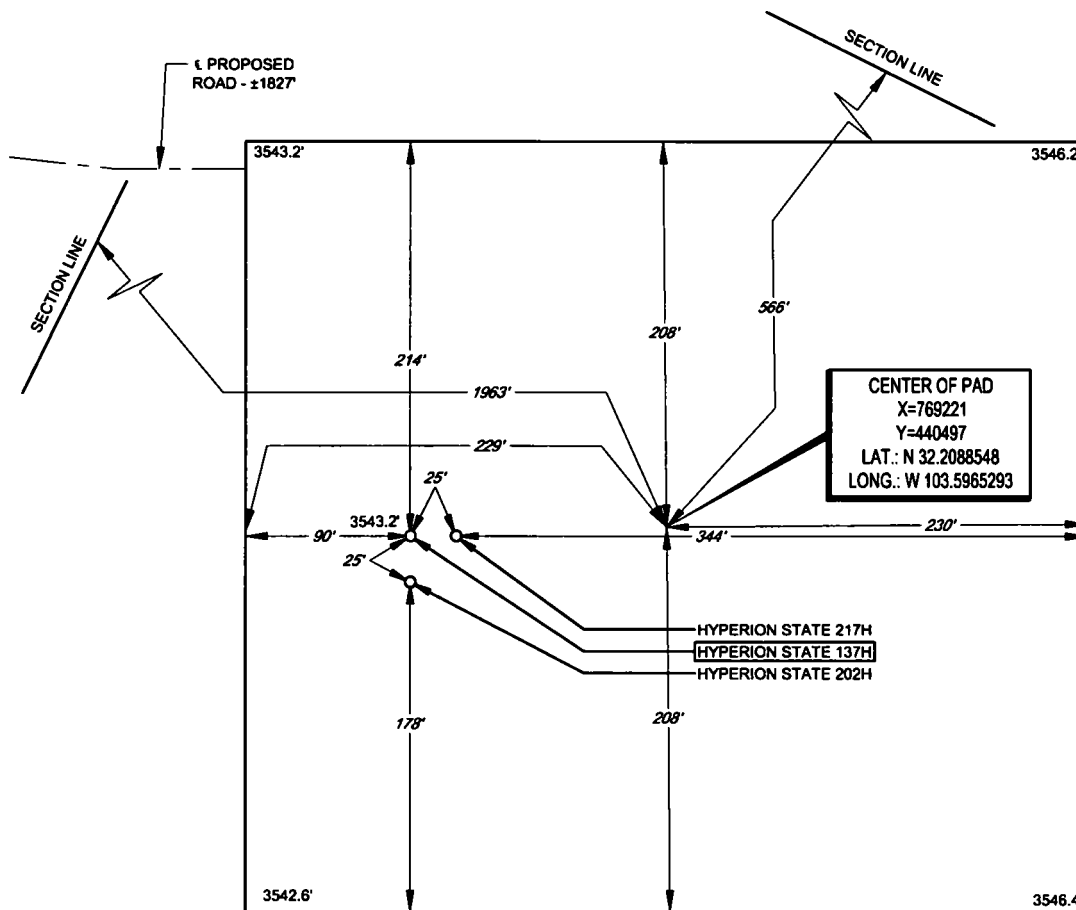
John Trevor Carnegie, P.S. No. 11401

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
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EXHIBIT 2B



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



LEASE NAME & WELL NO.: _____ HYPERION STATE 137H
137H LATITUDE _____ N 32.2086774 _____ 137H LONGITUDE _____ W 103.5969293

CENTER OF PAD IS 566' FNL & 1963' FWL



John Trevor Carnegie, P.S. No. 11401

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"

SCALE: 1" = 100'
0' 50' 100'



TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

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WWW.TOPOGRAPHIC.COM



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Hyperion) Sec-20_T-24-S_R-33-E
Hyperion State #137H**

OWB

HOBBS OCD

FEB 20 2020

RECEIVED

Plan: Plan #2

Standard Planning Report

06 February, 2020

INTREPID



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #137H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3568.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	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 #137H		
Well Position	+N/-S	-74.0 usft	Northing:
	+E/-W	1,300.0 usft	Easting:
Position Uncertainty	0.0 usft		Wellhead Elevation:
			Latitude:
			Longitude:
			Ground Level:

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	2020/01/15	6.68	60.01	47,660.23757837

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	179.55

Plan Survey Tool Program Date 2020/02/06

Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	17,800.2 Plan #2 (OWB)	MWD	
			OWSG MWD - Standard	



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #137H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3568.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Bulld 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	
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,766.7	4.00	62.65	2,766.5	4.3	8.3	1.50	1.50	0.00	62.65	
5,256.3	4.00	62.65	5,250.0	84.1	162.5	0.00	0.00	0.00	0.00	
5,789.7	12.00	62.65	5,777.8	118.1	228.4	1.50	1.50	0.00	0.00	
10,289.0	12.00	62.65	10,178.7	547.9	1,059.4	0.00	0.00	0.00	0.00	
11,089.1	0.00	0.00	10,973.0	586.3	1,133.6	1.50	-1.50	0.00	180.00	
12,253.2	0.00	0.00	12,137.1	586.3	1,133.6	0.00	0.00	0.00	0.00	
13,157.5	90.43	179.58	12,710.0	9.0	1,137.8	10.00	10.00	19.86	179.58	
17,800.8	90.43	179.58	12,675.0	-4,634.0	1,172.0	0.00	0.00	0.00	0.00	PBHL (Hyperion St:



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #137H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3568.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	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
1,180.0	0.00	0.00	1,180.0	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
1,525.0	0.00	0.00	1,525.0	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
NUDGE - Build 1.50									
2,600.0	1.50	62.65	2,600.0	0.6	1.2	-0.6	1.50	1.50	0.00
2,700.0	3.00	62.65	2,699.9	2.4	4.6	-2.4	1.50	1.50	0.00
2,766.7	4.00	62.65	2,766.5	4.3	8.3	-4.2	1.50	1.50	0.00
HOLD - 2489.6 at 2766.7 MD									
2,800.0	4.00	62.65	2,799.7	5.3	10.3	-5.3	0.00	0.00	0.00
2,900.0	4.00	62.65	2,899.5	8.5	16.5	-8.4	0.00	0.00	0.00
3,000.0	4.00	62.65	2,999.2	11.8	22.7	-11.6	0.00	0.00	0.00
3,100.0	4.00	62.65	3,099.0	15.0	28.9	-14.7	0.00	0.00	0.00
3,200.0	4.00	62.65	3,198.7	18.2	35.1	-17.9	0.00	0.00	0.00
3,300.0	4.00	62.65	3,298.5	21.4	41.3	-21.0	0.00	0.00	0.00
3,400.0	4.00	62.65	3,398.2	24.6	47.5	-24.2	0.00	0.00	0.00
3,500.0	4.00	62.65	3,498.0	27.8	53.7	-27.4	0.00	0.00	0.00
3,600.0	4.00	62.65	3,597.8	31.0	59.9	-30.5	0.00	0.00	0.00
3,700.0	4.00	62.65	3,697.5	34.2	66.1	-33.7	0.00	0.00	0.00
3,800.0	4.00	62.65	3,797.3	37.4	72.3	-36.8	0.00	0.00	0.00
3,900.0	4.00	62.65	3,897.0	40.6	78.5	-40.0	0.00	0.00	0.00
4,000.0	4.00	62.65	3,996.8	43.8	84.7	-43.1	0.00	0.00	0.00
4,100.0	4.00	62.65	4,096.5	47.0	90.9	-46.3	0.00	0.00	0.00
4,200.0	4.00	62.65	4,196.3	50.2	97.1	-49.4	0.00	0.00	0.00
4,300.0	4.00	62.65	4,296.0	53.4	103.3	-52.6	0.00	0.00	0.00
4,400.0	4.00	62.65	4,395.8	56.6	109.5	-55.8	0.00	0.00	0.00
4,500.0	4.00	62.65	4,495.6	59.8	115.7	-58.9	0.00	0.00	0.00
4,600.0	4.00	62.65	4,595.3	63.0	121.9	-62.1	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #137H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3568.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	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)
4,700.0	4.00	62.65	4,695.1	66.2	128.1	-65.2	0.00	0.00	0.00
4,795.2	4.00	62.65	4,790.0	69.3	133.9	-68.2	0.00	0.00	0.00
Base Salt									
4,800.0	4.00	62.65	4,794.8	69.4	134.2	-68.4	0.00	0.00	0.00
4,900.0	4.00	62.65	4,894.6	72.6	140.4	-71.5	0.00	0.00	0.00
5,000.0	4.00	62.65	4,994.3	75.8	146.6	-74.7	0.00	0.00	0.00
5,035.7	4.00	62.65	5,030.0	77.0	148.9	-75.8	0.00	0.00	0.00
Delaware Mountain Gp									
5,045.8	4.00	62.65	5,040.0	77.3	149.5	-76.1	0.00	0.00	0.00
Lamar									
5,060.8	4.00	62.65	5,055.0	77.8	150.4	-76.6	0.00	0.00	0.00
Bell Canyon									
5,075.8	4.00	62.65	5,070.0	78.3	151.3	-77.1	0.00	0.00	0.00
Ramsey Sand									
5,100.0	4.00	62.65	5,094.1	79.1	152.8	-77.9	0.00	0.00	0.00
5,200.0	4.00	62.65	5,193.9	82.3	159.0	-81.0	0.00	0.00	0.00
5,256.3	4.00	62.65	5,250.0	84.1	162.5	-82.8	0.00	0.00	0.00
BLD - DLS 1.50 TFO 0.00									
5,300.0	4.66	62.65	5,293.6	85.6	165.4	-84.3	1.50	1.50	0.00
5,400.0	6.16	62.65	5,393.1	89.9	173.8	-88.5	1.50	1.50	0.00
5,500.0	7.66	62.65	5,492.4	95.4	184.5	-94.0	1.50	1.50	0.00
5,600.0	9.16	62.65	5,591.3	102.1	197.5	-100.6	1.50	1.50	0.00
5,700.0	10.66	62.65	5,689.8	110.0	212.8	-108.4	1.50	1.50	0.00
5,789.7	12.00	62.65	5,777.8	118.1	228.4	-116.3	1.50	1.50	0.00
HOLD - 4499.2 at 5789.7 MD									
5,800.0	12.00	62.65	5,787.9	119.1	230.3	-117.3	0.00	0.00	0.00
5,900.0	12.00	62.65	5,885.7	128.7	248.8	-126.7	0.00	0.00	0.00
5,981.1	12.00	62.65	5,965.0	136.4	263.8	-134.3	0.00	0.00	0.00
Cherry Canyon									
6,000.0	12.00	62.65	5,983.5	138.2	267.3	-136.1	0.00	0.00	0.00
6,100.0	12.00	62.65	6,081.3	147.8	285.7	-145.5	0.00	0.00	0.00
6,200.0	12.00	62.65	6,179.1	157.3	304.2	-154.9	0.00	0.00	0.00
6,300.0	12.00	62.65	6,276.9	166.9	322.7	-164.3	0.00	0.00	0.00
6,400.0	12.00	62.65	6,374.8	176.4	341.1	-173.8	0.00	0.00	0.00
6,500.0	12.00	62.65	6,472.6	186.0	359.6	-183.2	0.00	0.00	0.00
6,600.0	12.00	62.65	6,570.4	195.5	378.1	-192.6	0.00	0.00	0.00
6,700.0	12.00	62.65	6,668.2	205.1	396.5	-202.0	0.00	0.00	0.00
6,800.0	12.00	62.65	6,766.0	214.7	415.0	-211.4	0.00	0.00	0.00
6,900.0	12.00	62.65	6,863.8	224.2	433.5	-220.8	0.00	0.00	0.00
7,000.0	12.00	62.65	6,961.6	233.8	452.0	-230.2	0.00	0.00	0.00
7,100.0	12.00	62.65	7,059.5	243.3	470.4	-239.6	0.00	0.00	0.00
7,200.0	12.00	62.65	7,157.3	252.9	488.9	-249.0	0.00	0.00	0.00
7,300.0	12.00	62.65	7,255.1	262.4	507.4	-258.4	0.00	0.00	0.00
7,400.0	12.00	62.65	7,352.9	272.0	525.8	-267.8	0.00	0.00	0.00
7,468.6	12.00	62.65	7,420.0	278.5	538.5	-274.3	0.00	0.00	0.00
Brushy Canyon									
7,500.0	12.00	62.65	7,450.7	281.5	544.3	-277.2	0.00	0.00	0.00
7,600.0	12.00	62.65	7,548.5	291.1	562.8	-286.6	0.00	0.00	0.00
7,700.0	12.00	62.65	7,646.3	300.6	581.2	-296.1	0.00	0.00	0.00
7,800.0	12.00	62.65	7,744.2	310.2	599.7	-305.5	0.00	0.00	0.00
7,900.0	12.00	62.65	7,842.0	319.7	618.2	-314.9	0.00	0.00	0.00
8,000.0	12.00	62.65	7,939.8	329.3	636.7	-324.3	0.00	0.00	0.00
8,100.0	12.00	62.65	8,037.6	338.8	655.1	-333.7	0.00	0.00	0.00



Intrepid Planning Report



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Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3568.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	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)
8,200.0	12.00	62.65	8,135.4	348.4	673.6	-343.1	0.00	0.00	0.00
8,300.0	12.00	62.65	8,233.2	357.9	692.1	-352.5	0.00	0.00	0.00
8,400.0	12.00	62.65	8,331.0	367.5	710.5	-361.9	0.00	0.00	0.00
8,500.0	12.00	62.65	8,428.9	377.0	729.0	-371.3	0.00	0.00	0.00
8,600.0	12.00	62.65	8,526.7	386.6	747.5	-380.7	0.00	0.00	0.00
8,700.0	12.00	62.65	8,624.5	396.2	765.9	-390.1	0.00	0.00	0.00
8,800.0	12.00	62.65	8,722.3	405.7	784.4	-399.5	0.00	0.00	0.00
8,900.0	12.00	62.65	8,820.1	415.3	802.9	-408.9	0.00	0.00	0.00
9,000.0	12.00	62.65	8,917.9	424.8	821.4	-418.3	0.00	0.00	0.00
9,100.0	12.00	62.65	9,015.7	434.4	839.8	-427.8	0.00	0.00	0.00
9,119.7	12.00	62.65	9,035.0	436.2	843.5	-429.6	0.00	0.00	0.00
Bone Spring Lime									
9,200.0	12.00	62.65	9,113.6	443.9	858.3	-437.2	0.00	0.00	0.00
9,283.3	12.00	62.65	9,195.0	451.9	873.7	-445.0	0.00	0.00	0.00
Upper Avalon									
9,300.0	12.00	62.65	9,211.4	453.5	876.8	-446.6	0.00	0.00	0.00
9,400.0	12.00	62.65	9,309.2	463.0	895.2	-456.0	0.00	0.00	0.00
9,500.0	12.00	62.65	9,407.0	472.6	913.7	-465.4	0.00	0.00	0.00
9,523.5	12.00	62.65	9,430.0	474.8	918.1	-467.6	0.00	0.00	0.00
Middle Avalon									
9,600.0	12.00	62.65	9,504.8	482.1	932.2	-474.8	0.00	0.00	0.00
9,700.0	12.00	62.65	9,602.6	491.7	950.7	-484.2	0.00	0.00	0.00
9,800.0	12.00	62.65	9,700.4	501.2	969.1	-493.6	0.00	0.00	0.00
9,900.0	12.00	62.65	9,798.2	510.8	987.6	-503.0	0.00	0.00	0.00
9,901.8	12.00	62.65	9,800.0	511.0	987.9	-503.2	0.00	0.00	0.00
Lower Avalon									
10,000.0	12.00	62.65	9,896.1	520.3	1,006.1	-512.4	0.00	0.00	0.00
10,100.0	12.00	62.65	9,993.9	529.9	1,024.5	-521.8	0.00	0.00	0.00
10,162.5	12.00	62.65	10,055.0	535.9	1,036.1	-527.7	0.00	0.00	0.00
1st Bone Spring Sand									
10,200.0	12.00	62.65	10,091.7	539.4	1,043.0	-531.2	0.00	0.00	0.00
10,289.0	12.00	62.65	10,178.7	547.9	1,059.4	-539.6	0.00	0.00	0.00
DROP - -1.50									
10,300.0	11.84	62.65	10,189.5	549.0	1,061.5	-540.6	1.50	-1.50	0.00
10,400.0	10.34	62.65	10,287.6	557.8	1,078.5	-549.3	1.50	-1.50	0.00
10,498.7	8.86	62.65	10,385.0	565.4	1,093.2	-556.8	1.50	-1.50	0.00
2nd Bone Spring Carb									
10,500.0	8.84	62.65	10,386.2	565.5	1,093.3	-556.9	1.50	-1.50	0.00
10,600.0	7.34	62.65	10,485.2	571.9	1,105.8	-563.2	1.50	-1.50	0.00
10,700.0	5.84	62.65	10,584.6	577.2	1,116.0	-568.4	1.50	-1.50	0.00
10,800.0	4.34	62.65	10,684.2	581.3	1,123.9	-572.4	1.50	-1.50	0.00
10,830.9	3.87	62.65	10,715.0	582.3	1,125.9	-573.4	1.50	-1.50	0.00
2nd Bone Spring Sand									
10,900.0	2.84	62.65	10,784.0	584.2	1,129.4	-575.3	1.50	-1.50	0.00
11,000.0	1.34	62.65	10,883.9	585.8	1,132.7	-576.9	1.50	-1.50	0.00
11,089.1	0.00	0.00	10,973.0	586.3	1,133.6	-577.4	1.50	-1.50	0.00
HOLD - 1164.1 at 11089.1 MD									
11,100.0	0.00	0.00	10,983.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,200.0	0.00	0.00	11,083.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,300.0	0.00	0.00	11,183.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,400.0	0.00	0.00	11,283.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,421.1	0.00	0.00	11,305.0	586.3	1,133.6	-577.4	0.00	0.00	0.00



Intrepid
Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	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)
3rd Bone Spring Carb									
11,500.0	0.00	0.00	11,383.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,600.0	0.00	0.00	11,483.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,700.0	0.00	0.00	11,583.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,800.0	0.00	0.00	11,683.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
11,900.0	0.00	0.00	11,783.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
12,000.0	0.00	0.00	11,883.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
12,036.1	0.00	0.00	11,920.0	586.3	1,133.6	-577.4	0.00	0.00	0.00
3rd Bone Spring Sand									
12,100.0	0.00	0.00	11,983.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
12,200.0	0.00	0.00	12,083.9	586.3	1,133.6	-577.4	0.00	0.00	0.00
12,253.2	0.00	0.00	12,137.1	586.3	1,133.6	-577.4	0.00	0.00	0.00
KOP - DLS 10.00 TFO 179.58									
12,300.0	4.68	179.58	12,183.9	584.4	1,133.6	-575.5	10.00	10.00	0.00
12,346.5	9.33	179.58	12,230.0	578.7	1,133.7	-569.8	10.00	10.00	0.00
3rd BS W Sand									
12,350.0	9.68	179.58	12,233.4	578.1	1,133.7	-569.2	10.00	10.00	0.00
12,400.0	14.68	179.58	12,282.3	567.6	1,133.7	-558.7	10.00	10.00	0.00
12,439.3	18.62	179.58	12,320.0	556.3	1,133.8	-547.4	10.00	10.00	0.00
Wolfcamp A X Sand									
12,450.0	19.68	179.58	12,330.1	552.8	1,133.8	-543.9	10.00	10.00	0.00
12,500.0	24.68	179.58	12,376.3	534.0	1,134.0	-525.0	10.00	10.00	0.00
12,550.0	29.68	179.58	12,420.8	511.1	1,134.2	-502.2	10.00	10.00	0.00
12,566.5	31.33	179.58	12,435.0	502.8	1,134.2	-493.8	10.00	10.00	0.00
Wolfcamp A Y Sand									
12,600.0	34.68	179.58	12,463.1	484.5	1,134.3	-475.6	10.00	10.00	0.00
12,650.0	39.68	179.58	12,502.9	454.3	1,134.6	-445.4	10.00	10.00	0.00
12,686.1	43.29	179.58	12,530.0	430.4	1,134.7	-421.4	10.00	10.00	0.00
Wolfcamp A Lower									
12,700.0	44.68	179.58	12,540.0	420.7	1,134.8	-411.8	10.00	10.00	0.00
12,750.0	49.68	179.58	12,574.0	384.1	1,135.1	-375.1	10.00	10.00	0.00
12,800.0	54.68	179.58	12,604.6	344.6	1,135.4	-335.7	10.00	10.00	0.00
12,850.0	59.68	179.58	12,631.7	302.6	1,135.7	-293.7	10.00	10.00	0.00
12,900.0	64.68	179.58	12,655.0	258.4	1,136.0	-249.5	10.00	10.00	0.00
12,950.0	69.68	179.58	12,674.4	212.3	1,136.4	-203.4	10.00	10.00	0.00
13,000.0	74.68	179.58	12,689.7	164.7	1,136.7	-155.8	10.00	10.00	0.00
13,050.0	79.68	179.58	12,700.8	116.0	1,137.1	-107.1	10.00	10.00	0.00
13,100.0	84.68	179.58	12,707.6	66.5	1,137.4	-57.5	10.00	10.00	0.00
13,150.0	89.68	179.58	12,710.0	16.5	1,137.8	-7.6	10.00	10.00	0.00
13,157.5	90.43	179.58	12,710.0	9.0	1,137.8	-0.1	10.00	10.00	0.00
EOC - 4643.3 hold at 13157.5 MD									
13,200.0	90.43	179.58	12,709.7	-33.4	1,138.2	42.4	0.00	0.00	0.00
13,300.0	90.43	179.58	12,709.0	-133.4	1,138.9	142.4	0.00	0.00	0.00
13,400.0	90.43	179.58	12,708.2	-233.4	1,139.6	242.4	0.00	0.00	0.00
13,500.0	90.43	179.58	12,707.5	-333.4	1,140.4	342.4	0.00	0.00	0.00
13,600.0	90.43	179.58	12,706.7	-433.4	1,141.1	442.4	0.00	0.00	0.00
13,700.0	90.43	179.58	12,705.9	-533.4	1,141.8	542.4	0.00	0.00	0.00
13,800.0	90.43	179.58	12,705.2	-633.4	1,142.6	642.4	0.00	0.00	0.00
13,900.0	90.43	179.58	12,704.4	-733.4	1,143.3	742.4	0.00	0.00	0.00
14,000.0	90.43	179.58	12,703.7	-833.4	1,144.0	842.4	0.00	0.00	0.00
14,100.0	90.43	179.58	12,702.9	-933.4	1,144.8	942.4	0.00	0.00	0.00
14,200.0	90.43	179.58	12,702.2	-1,033.4	1,145.5	1,042.4	0.00	0.00	0.00
14,300.0	90.43	179.58	12,701.4	-1,133.4	1,146.2	1,142.4	0.00	0.00	0.00



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Wellbore:	OWB		
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Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,400.0	90.43	179.58	12,700.7	-1,233.4	1,147.0	1,242.4	0.00	0.00	0.00
14,500.0	90.43	179.58	12,699.9	-1,333.4	1,147.7	1,342.3	0.00	0.00	0.00
14,600.0	90.43	179.58	12,699.2	-1,433.4	1,148.5	1,442.3	0.00	0.00	0.00
14,700.0	90.43	179.58	12,698.4	-1,533.4	1,149.2	1,542.3	0.00	0.00	0.00
14,800.0	90.43	179.58	12,697.6	-1,633.4	1,149.9	1,642.3	0.00	0.00	0.00
14,900.0	90.43	179.58	12,696.9	-1,733.4	1,150.7	1,742.3	0.00	0.00	0.00
15,000.0	90.43	179.58	12,696.1	-1,833.3	1,151.4	1,842.3	0.00	0.00	0.00
15,100.0	90.43	179.58	12,695.4	-1,933.3	1,152.1	1,942.3	0.00	0.00	0.00
15,200.0	90.43	179.58	12,694.6	-2,033.3	1,152.9	2,042.3	0.00	0.00	0.00
15,300.0	90.43	179.58	12,693.9	-2,133.3	1,153.6	2,142.3	0.00	0.00	0.00
15,400.0	90.43	179.58	12,693.1	-2,233.3	1,154.3	2,242.3	0.00	0.00	0.00
15,500.0	90.43	179.58	12,692.4	-2,333.3	1,155.1	2,342.3	0.00	0.00	0.00
15,600.0	90.43	179.58	12,691.6	-2,433.3	1,155.8	2,442.3	0.00	0.00	0.00
15,700.0	90.43	179.58	12,690.9	-2,533.3	1,156.5	2,542.3	0.00	0.00	0.00
15,800.0	90.43	179.58	12,690.1	-2,633.3	1,157.3	2,642.3	0.00	0.00	0.00
15,900.0	90.43	179.58	12,689.3	-2,733.3	1,158.0	2,742.3	0.00	0.00	0.00
16,000.0	90.43	179.58	12,688.6	-2,833.3	1,158.8	2,842.3	0.00	0.00	0.00
16,100.0	90.43	179.58	12,687.8	-2,933.3	1,159.5	2,942.3	0.00	0.00	0.00
16,200.0	90.43	179.58	12,687.1	-3,033.3	1,160.2	3,042.3	0.00	0.00	0.00
16,300.0	90.43	179.58	12,686.3	-3,133.3	1,161.0	3,142.3	0.00	0.00	0.00
16,400.0	90.43	179.58	12,685.6	-3,233.3	1,161.7	3,242.3	0.00	0.00	0.00
16,500.0	90.43	179.58	12,684.8	-3,333.3	1,162.4	3,342.3	0.00	0.00	0.00
16,600.0	90.43	179.58	12,684.1	-3,433.3	1,163.2	3,442.3	0.00	0.00	0.00
16,700.0	90.43	179.58	12,683.3	-3,533.3	1,163.9	3,542.3	0.00	0.00	0.00
16,800.0	90.43	179.58	12,682.6	-3,633.2	1,164.6	3,642.3	0.00	0.00	0.00
16,900.0	90.43	179.58	12,681.8	-3,733.2	1,165.4	3,742.3	0.00	0.00	0.00
17,000.0	90.43	179.58	12,681.0	-3,833.2	1,166.1	3,842.3	0.00	0.00	0.00
17,100.0	90.43	179.58	12,680.3	-3,933.2	1,166.8	3,942.3	0.00	0.00	0.00
17,200.0	90.43	179.58	12,679.5	-4,033.2	1,167.6	4,042.3	0.00	0.00	0.00
17,300.0	90.43	179.58	12,678.8	-4,133.2	1,168.3	4,142.3	0.00	0.00	0.00
17,400.0	90.43	179.58	12,678.0	-4,233.2	1,169.1	4,242.3	0.00	0.00	0.00
17,500.0	90.43	179.58	12,677.3	-4,333.2	1,169.8	4,342.3	0.00	0.00	0.00
17,600.0	90.43	179.58	12,676.5	-4,433.2	1,170.5	4,442.3	0.00	0.00	0.00
17,700.0	90.43	179.58	12,675.8	-4,533.2	1,171.3	4,542.3	0.00	0.00	0.00
17,800.8	90.43	179.58	12,675.0	-4,634.0	1,172.0	4,643.1	0.00	0.00	0.00

TD at 17800.8

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									
LTP (Hyperion State #	0.00	0.00	12,675.0	-4,539.0	1,171.0	435,892.00	770,269.00	32° 11' 46.243 N	103° 35' 35.682 W
- plan misses target center by 5.9usft at 17700.0usft MD (12675.8 TVD, -4533.2 N, 1171.3 E)									
- Point									
PBHL (Hyperion State	-0.43	179.55	12,675.0	-4,634.0	1,172.0	435,797.00	770,270.00	32° 11' 45.303 N	103° 35' 35.678 W
- plan hits target center									
- Rectangle (sides W100.0 H5,171.0 D30.0)									
FTP (Hyperion State #	0.00	0.00	12,710.0	536.0	1,134.0	440,967.00	770,232.00	32° 12' 36.464 N	103° 35' 35.706 W
- plan misses target center by 202.5usft at 12731.0usft MD (12561.4 TVD, 398.3 N, 1135.0 E)									
- Point									



Intrepid
Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Hyperion State #137H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3568.0usft (H&P 388)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3568.0usft (H&P 388)
Site:	(Hyperion) Sec-20_T-24-S_R-33-E	North Reference:	Grid
Well:	Hyperion State #137H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #2		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,180.0	1,180.0	Rustler Anhydrite			
1,525.0	1,525.0	Top Salt			
4,795.2	4,790.0	Base Salt			
5,035.7	5,030.0	Delaware Mountain Gp			
5,045.8	5,040.0	Lamar			
5,060.8	5,055.0	Bell Canyon			
5,075.8	5,070.0	Ramsey Sand			
5,981.1	5,965.0	Cherry Canyon			
7,468.6	7,420.0	Brushy Canyon			
9,119.7	9,035.0	Bone Spring Lime			
9,283.3	9,195.0	Upper Avalon			
9,523.5	9,430.0	Middle Avalon			
9,901.8	9,800.0	Lower Avalon			
10,162.5	10,055.0	1st Bone Spring Sand			
10,498.7	10,385.0	2nd Bone Spring Carb			
10,830.9	10,715.0	2nd Bone Spring Sand			
11,421.1	11,305.0	3rd Bone Spring Carb			
12,036.1	11,920.0	3rd Bone Spring Sand			
12,346.5	12,230.0	3rd BS W Sand			
12,439.3	12,320.0	Wolfcamp A X Sand			
12,566.5	12,435.0	Wolfcamp A Y Sand			
12,686.1	12,530.0	Wolfcamp A Lower			

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
2,500.0	2,500.0	0.0	0.0	NUDGE - Build 1.50
2,766.7	2,766.5	4.3	8.3	HOLD - 2489.6 at 2766.7 MD
5,256.3	5,250.0	84.1	162.5	BLD - DLS 1.50 TFO 0.00
5,789.7	5,777.8	118.1	228.4	HOLD - 4499.2 at 5789.7 MD
10,289.0	10,178.7	547.9	1,059.4	DROP - -1.50
11,089.1	10,973.0	586.3	1,133.6	HOLD - 1164.1 at 11089.1 MD
12,253.2	12,137.1	586.3	1,133.6	KOP - DLS 10.00 TFO 179.58
13,157.5	12,710.0	9.0	1,137.8	EOC - 4643.3 hold at 13157.5 MD
17,800.8	12,675.0	-4,634.0	1,172.0	TD at 17800.8