

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-104
Revised August 1, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit one copy to appropriate District Office

☐ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address TAP ROCK OPERATING, LLC 602 PARK POINT DRIVE, SUITE 200 GOLDEN, CO 80401		² OGRID Number 372043	
		³ Reason for Filing Code/ Effective Date RT	
⁴ API Number 30 - 0 25-45845	⁵ Pool Name TRIPLE X, BONE SPRING, WEST		⁶ Pool Code 96674
⁷ Property Code 325171	⁸ Property Name ZEUS STATE		⁹ Well Number 186H

II. ¹⁰ Surface Location

UI or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
O	09	24S	33E		587	SOUTH	1852	EAST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	09	24S	33E		37	NORTH	1955	EAST	LEA
¹² Lse Code S	¹³ Producing Method Code F		¹⁴ Gas Connection Date		¹⁵ C-129 Permit Number		¹⁶ C-129 Effective Date		¹⁷ C-129 Expiration Date

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ O/G/W
214754	ENLINK MIDSTREAM OPERATING,LP 1722 ROUTH ST. SUITE 1300 DALLAS, TX 75201	O
371960	LUCID ENERGY GROUP 3100 MCKINNON ST #800 DALLAS, TX 75201	G

IV. Well Completion Data

²¹ Spud Date 11/7/19	²² Ready Date 3/7/2020	²³ TD 14870'	²⁴ PBTD 14804'	²⁵ Perforations 10075'-14717'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17 1/2"		13 3/8"		1317'	1225
12 1/4"		9 5/8"		5305'	1360
8 3/4"		5 1/2"		14856'	2220

V. Well Test Data

³¹ Date New Oil	³² Gas Delivery Date	³³ Test Date	³⁴ Test Length	³⁵ Tbg. Pressure	³⁶ Csg. Pressure
³⁷ Choke Size	³⁸ Oil	³⁹ Water	⁴⁰ Gas		⁴¹ Test Method
⁴² I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: 			OIL CONSERVATION DIVISION		
Printed name: Bill Ramsey			Approved by: Patricia Martinez		
Title: Regulatory Analyst			Title: LM		
E-mail Address: bramsey@taprk.com			Approval Date: 04/08/2020		
Date: 3/18/2020		Phone: 720-360-4028			

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

¹ API Number 30-025-45845	² Pool Code 96674	³ Pool Name TRIPLE X, BONE SPRING, WEST
⁴ Property Code 325171	⁵ Property Name ZEUS STATE	⁶ Well Number 186H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3617'

¹⁰Surface Location

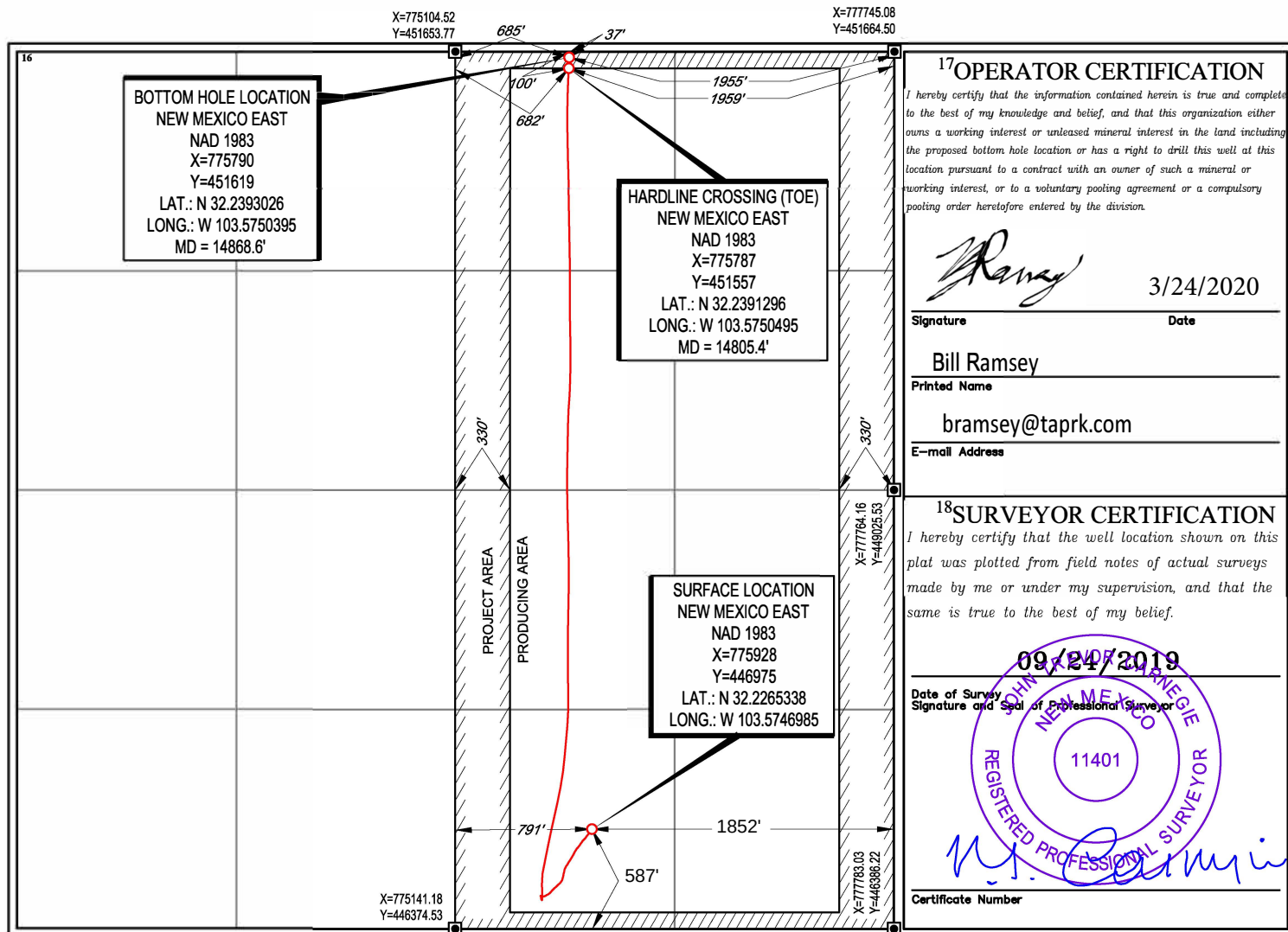
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	9	24-S	33-E	-	587'	SOUTH	1852'	EAST	LEA

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
B	9	24-S	33-E	-	37'	NORTH	1955'	EAST	LEA

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

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)
(Zeus State) Sec-9_T24-S_R-33-E
Zeus Unit State #186H**

OWB

Design: AWB

Standard Survey Report

19 November, 2019





Operator: Taprock Resources LLC
Well Name: Zeus Unit State #186H
County: Lea
State: New Mexico
Rig Name: H&P 388
API Number: 30-025-45845

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: 9428' MD – 14804' MD
Projection to Bit: 14870' MD
Dates Performed: 11/06/2019 – 11/19/2019
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



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus Unit State #186H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3644.0usft (H&P 388)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3644.0usft (H&P 388)
Well:	Zeus Unit State #186H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

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	(Zeus State) Sec-9_T24-S_R-33-E				
Site Position:		Northing:	447,193.00 usft	Latitude:	32° 13' 37.575 N
From:	Map	Easting:	777,416.00 usft	Longitude:	103° 34' 11.577 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.41 °

Well	Zeus Unit State #186H					
Well Position	+N/-S	0.0 usft	Northing:	446,975.00 usft	Latitude:	32° 13' 35.522 N
	+E/-W	0.0 usft	Easting:	775,928.00 usft	Longitude:	103° 34' 28.917 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,618.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	10/26/19	6.70	60.03	47,695.31774767

Design	AWB				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.59	

Survey Program	Date	11/19/19			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
44.6	9,334.0	Gyro Svys (OWB)	GYRO-NS	OWSG Gyrocompass Gyro	
9,428.0	14,870.0	Intrepid MWD Crv/Lat (OWB)	MWD	OWSG MWD - Standard	

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
44.6	0.14	92.81	44.6	0.0	0.1	0.0	0.31	0.31	0.00
139.4	0.55	192.18	139.4	-0.5	0.1	-0.5	0.62	0.43	104.83
234.2	0.70	196.19	234.2	-1.5	-0.2	-1.5	0.16	0.16	4.23
328.9	0.72	187.60	328.9	-2.6	-0.4	-2.6	0.11	0.02	-9.06
423.7	0.77	184.66	423.7	-3.8	-0.6	-3.8	0.07	0.05	-3.10
518.5	0.82	178.77	518.5	-5.1	-0.6	-5.1	0.10	0.05	-6.21
613.3	0.80	176.60	613.3	-6.5	-0.5	-6.5	0.04	-0.02	-2.29
708.1	0.76	179.41	708.1	-7.8	-0.5	-7.8	0.06	-0.04	2.96
802.9	0.63	193.74	802.8	-8.9	-0.6	-8.9	0.23	-0.14	15.12

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Well:	Zeus Unit State #186H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	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)
897.7	0.73	243.87	897.6	-9.7	-1.3	-9.7	0.62	0.11	52.89
992.5	0.70	233.57	992.4	-10.3	-2.3	-10.3	0.14	-0.03	-10.87
1,087.3	0.86	246.07	1,087.2	-10.9	-3.4	-10.9	0.25	0.17	13.19
1,182.1	0.82	221.29	1,182.0	-11.7	-4.5	-11.7	0.38	-0.04	-26.14
1,264.1	0.61	256.12	1,264.0	-12.3	-5.3	-12.2	0.58	-0.26	42.46
Rustler Anhydrite									
1,276.8	0.60	263.09	1,276.8	-12.3	-5.4	-12.2	0.58	-0.05	54.65
1,371.6	0.28	266.21	1,371.5	-12.4	-6.2	-12.3	0.34	-0.34	3.29
1,466.4	0.09	154.25	1,466.3	-12.4	-6.4	-12.4	0.34	-0.20	-118.11
1,561.2	0.38	337.94	1,561.1	-12.2	-6.4	-12.2	0.50	0.31	-186.00
1,656.0	0.77	277.80	1,655.9	-11.8	-7.2	-11.8	0.70	0.41	-63.45
1,750.8	0.91	229.15	1,750.7	-12.2	-8.4	-12.2	0.74	0.15	-51.32
1,766.1	1.20	227.38	1,766.0	-12.4	-8.6	-12.4	1.94	1.92	-11.55
Top Salt									
1,845.6	2.74	224.33	1,845.4	-14.4	-10.5	-14.3	1.94	1.93	-3.84
1,940.4	4.47	212.06	1,940.0	-19.1	-14.1	-19.0	1.99	1.83	-12.94
2,035.2	6.08	218.81	2,034.4	-26.2	-19.2	-26.0	1.82	1.70	7.12
2,130.0	6.10	213.31	2,128.7	-34.3	-25.1	-34.1	0.62	0.02	-5.80
2,224.7	6.94	217.16	2,222.8	-43.0	-31.3	-42.8	1.00	0.89	4.06
2,319.5	7.09	220.48	2,316.9	-52.1	-38.6	-51.8	0.46	0.16	3.50
2,414.3	7.05	227.51	2,411.0	-60.4	-46.7	-60.1	0.91	-0.04	7.42
2,509.1	6.72	223.29	2,505.1	-68.4	-54.8	-68.0	0.64	-0.35	-4.45
2,603.9	6.42	207.61	2,599.3	-77.1	-61.0	-76.7	1.91	-0.32	-16.54
2,698.7	6.30	217.12	2,693.5	-86.0	-66.6	-85.5	1.12	-0.13	10.03
2,793.5	6.09	218.08	2,787.7	-94.1	-72.9	-93.6	0.25	-0.22	1.01
2,888.3	5.85	215.66	2,882.0	-102.0	-78.8	-101.4	0.37	-0.25	-2.55
2,983.1	5.50	217.47	2,976.3	-109.5	-84.4	-108.9	0.41	-0.37	1.91
3,077.9	5.20	216.43	3,070.7	-116.6	-89.7	-115.9	0.33	-0.32	-1.10
3,172.6	6.75	215.57	3,165.0	-124.5	-95.5	-123.9	1.64	1.64	-0.91
3,267.4	7.08	206.47	3,259.1	-134.3	-101.3	-133.6	1.21	0.35	-9.60
3,362.2	6.79	210.20	3,353.2	-144.4	-106.7	-143.6	0.56	-0.31	3.94
3,457.0	6.22	209.55	3,447.4	-153.7	-112.1	-152.9	0.61	-0.60	-0.69
3,551.8	5.81	207.90	3,541.6	-162.4	-116.9	-161.6	0.47	-0.43	-1.74
3,646.6	5.71	208.76	3,635.9	-170.8	-121.4	-169.9	0.14	-0.11	0.91
3,741.4	6.26	212.77	3,730.2	-179.3	-126.4	-178.3	0.73	0.58	4.23
3,836.2	5.58	214.45	3,824.5	-187.4	-131.9	-186.5	0.74	-0.72	1.77
3,931.0	5.22	212.78	3,918.9	-194.8	-136.8	-193.8	0.41	-0.38	-1.76
4,025.8	5.02	214.18	4,013.3	-201.9	-141.5	-200.9	0.25	-0.21	1.48
4,120.5	5.02	209.90	4,107.7	-208.9	-145.9	-207.9	0.40	0.00	-4.52
4,215.3	5.13	211.02	4,202.1	-216.1	-150.1	-215.1	0.16	0.12	1.18
4,310.1	4.75	216.85	4,296.6	-222.9	-154.6	-221.8	0.66	-0.40	6.15
4,404.9	5.90	212.20	4,390.9	-230.2	-159.6	-229.0	1.29	1.21	-4.91
4,499.7	5.54	194.64	4,485.3	-238.7	-163.3	-237.5	1.88	-0.38	-18.53

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus Unit State #186H
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Well:	Zeus Unit State #186H	North Reference:	Grid
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Design:	AWB	Database:	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)
4,594.5	5.90	188.37	4,579.6	-248.0	-165.2	-246.8	0.76	0.38	-6.61
4,689.3	6.26	195.75	4,673.8	-257.8	-167.3	-256.6	0.91	0.38	7.79
4,784.1	6.90	190.29	4,768.0	-268.3	-169.7	-267.1	0.94	0.68	-5.76
4,878.9	7.89	191.16	4,862.0	-280.3	-172.0	-279.1	1.05	1.04	0.92
4,973.7	8.26	195.80	4,955.9	-293.3	-175.1	-292.0	0.79	0.39	4.90
4,990.0	8.10	197.25	4,972.0	-295.5	-175.8	-294.2	1.59	-0.96	8.92
Base Salt									
5,068.4	7.43	205.05	5,049.8	-305.4	-179.6	-304.1	1.59	-0.86	9.93
5,163.2	6.92	218.86	5,143.8	-315.4	-185.8	-314.0	1.89	-0.54	14.57
5,239.9	6.45	221.95	5,220.0	-322.2	-191.5	-320.8	0.77	-0.61	4.02
Delaware Mountain Gp									
5,248.0	6.40	222.30	5,228.0	-322.8	-192.1	-321.4	0.77	-0.60	4.35
Lamar									
5,258.0	6.34	222.74	5,238.0	-323.7	-192.9	-322.3	0.77	-0.60	4.42
5,273.2	6.38	223.30	5,253.0	-324.9	-194.0	-323.5	0.49	0.26	3.72
Bell Canyon									
5,292.3	6.43	224.00	5,272.0	-326.4	-195.5	-325.0	0.49	0.27	3.67
Ramsey Sand									
5,352.8	6.60	226.15	5,332.2	-331.3	-200.4	-329.8	0.49	0.28	3.55
5,447.6	6.67	226.26	5,426.3	-338.9	-208.3	-337.4	0.08	0.07	0.12
5,542.4	6.58	228.14	5,520.5	-346.3	-216.3	-344.7	0.25	-0.09	1.98
5,637.2	6.70	230.85	5,614.6	-353.4	-224.6	-351.8	0.35	0.13	2.86
5,732.0	6.59	223.27	5,708.8	-360.8	-232.7	-359.2	0.93	-0.12	-8.00
5,826.8	6.44	219.18	5,803.0	-368.9	-239.7	-367.2	0.51	-0.16	-4.31
5,921.6	6.79	222.58	5,897.1	-377.2	-246.9	-375.4	0.55	0.37	3.59
6,016.3	5.20	230.07	5,991.4	-384.1	-254.0	-382.2	1.87	-1.68	7.90
6,111.1	4.27	234.39	6,085.9	-388.9	-260.1	-387.0	1.05	-0.98	4.56
6,205.9	3.78	249.56	6,180.4	-392.0	-265.9	-390.1	1.23	-0.52	16.00
6,213.5	3.70	248.94	6,188.0	-392.2	-266.4	-390.3	1.22	-1.10	-8.21
Cherry Canyon									
6,300.7	2.78	239.16	6,275.0	-394.3	-270.8	-392.3	1.22	-1.05	-11.21
6,395.5	3.01	234.21	6,369.7	-396.9	-274.8	-394.9	0.36	0.24	-5.22
6,490.3	1.96	240.67	6,464.4	-399.2	-278.3	-397.2	1.14	-1.11	6.82
6,585.1	1.46	261.84	6,559.2	-400.1	-280.9	-398.1	0.84	-0.53	22.33
6,679.9	1.57	220.49	6,653.9	-401.3	-282.9	-399.3	1.13	0.12	-43.62
6,774.7	1.52	270.78	6,748.7	-402.3	-285.0	-400.2	1.39	-0.05	53.05
6,869.5	1.68	262.88	6,843.4	-402.4	-287.6	-400.4	0.29	0.17	-8.33
6,964.2	1.83	257.24	6,938.2	-402.9	-290.5	-400.8	0.24	0.16	-5.95
7,059.0	1.35	262.45	7,032.9	-403.4	-293.1	-401.3	0.53	-0.51	5.50
7,153.8	1.48	271.51	7,127.7	-403.5	-295.4	-401.4	0.27	0.14	9.56
7,248.6	1.49	266.87	7,222.5	-403.6	-297.9	-401.4	0.13	0.01	-4.90
7,343.4	1.44	272.79	7,317.2	-403.6	-300.3	-401.4	0.17	-0.05	6.25
7,438.2	1.44	270.52	7,412.0	-403.5	-302.7	-401.3	0.06	0.00	-2.39
7,533.0	1.75	294.13	7,506.7	-402.9	-305.2	-400.7	0.76	0.33	24.91
7,627.8	1.75	302.66	7,601.5	-401.5	-307.7	-399.3	0.27	0.00	9.00

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Design:	AWB	Database:	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)
7,722.6	0.84	21.12	7,696.2	-400.1	-308.7	-397.9	1.88	-0.96	82.77
7,724.3	0.83	21.90	7,698.0	-400.1	-308.7	-397.9	0.85	-0.54	44.45
Brushy Canyon									
7,817.4	0.69	83.38	7,791.0	-399.4	-307.9	-397.2	0.85	-0.15	66.08
7,912.1	0.80	102.37	7,885.8	-399.5	-306.7	-397.3	0.28	0.12	20.03
8,006.9	0.78	114.72	7,980.6	-399.9	-305.4	-397.7	0.18	-0.02	13.03
8,101.7	0.88	173.65	8,075.4	-400.9	-304.8	-398.7	0.87	0.11	62.17
8,196.5	0.63	144.47	8,170.2	-402.0	-304.4	-399.8	0.48	-0.26	-30.78
8,291.3	0.78	198.99	8,264.9	-403.0	-304.3	-400.9	0.70	0.16	57.52
8,386.1	0.93	193.02	8,359.7	-404.4	-304.7	-402.2	0.18	0.16	-6.30
8,480.9	1.01	186.79	8,454.5	-406.0	-304.9	-403.8	0.14	0.08	-6.57
8,575.7	1.23	191.18	8,549.3	-407.8	-305.2	-405.6	0.25	0.23	4.63
8,670.5	1.39	186.73	8,644.0	-409.9	-305.6	-407.8	0.20	0.17	-4.69
8,765.3	1.29	180.43	8,738.8	-412.2	-305.7	-410.0	0.19	-0.11	-6.65
8,860.0	1.34	155.51	8,833.6	-414.2	-305.3	-412.0	0.60	0.05	-26.29
8,954.8	1.49	160.94	8,928.3	-416.4	-304.4	-414.2	0.21	0.16	5.73
9,049.6	1.33	165.61	9,023.1	-418.6	-303.7	-416.5	0.21	-0.17	4.93
9,144.4	1.16	176.45	9,117.8	-420.7	-303.4	-418.5	0.31	-0.18	11.44
9,149.6	1.17	175.66	9,123.0	-420.8	-303.4	-418.6	0.34	0.15	-15.36
Bone Spring Lime									
9,239.2	1.33	163.56	9,212.6	-422.7	-303.0	-420.5	0.34	0.18	-13.50
9,283.6	1.18	155.32	9,257.0	-423.6	-302.7	-421.4	0.53	-0.35	-18.55
Upper Avalon									
9,334.0	1.04	143.32	9,307.4	-424.4	-302.2	-422.2	0.53	-0.27	-23.82
Tie to Gyro									
9,428.0	1.49	135.58	9,401.4	-426.0	-300.8	-423.8	0.51	0.48	-8.23
9,523.0	3.43	11.04	9,496.3	-424.1	-299.4	-421.9	4.68	2.04	-131.09
9,568.0	8.87	4.75	9,541.0	-419.3	-298.9	-417.1	12.17	12.10	-13.99
Middle Avalon									
9,618.0	14.95	3.13	9,589.9	-409.0	-298.2	-406.8	12.17	12.15	-3.24
9,713.0	23.25	355.74	9,679.6	-378.0	-298.9	-375.8	9.08	8.74	-7.78
9,807.0	35.21	358.56	9,761.5	-332.2	-301.0	-330.1	12.80	12.72	3.00
9,902.0	50.29	8.05	9,831.2	-268.2	-296.5	-266.1	17.22	15.87	9.99
9,997.0	62.15	11.56	9,883.9	-190.6	-282.9	-188.6	12.85	12.48	3.69
10,052.0	65.85	11.40	9,908.0	-142.2	-273.1	-140.2	6.74	6.73	-0.28
Lower Avalon									
10,091.0	68.48	11.30	9,923.1	-106.9	-266.0	-105.0	6.74	6.73	-0.27
10,186.0	74.11	12.35	9,953.6	-18.9	-247.6	-17.1	6.02	5.93	1.11
10,281.0	77.63	12.44	9,976.8	71.1	-227.8	72.7	3.71	3.71	0.09
10,375.0	79.69	12.62	9,995.3	161.0	-207.8	162.5	2.20	2.19	0.19
10,470.0	81.19	11.12	10,011.0	252.7	-188.6	254.0	2.22	1.58	-1.58
10,565.0	81.58	7.70	10,025.3	345.3	-173.2	346.6	3.58	0.41	-3.60
10,660.0	85.67	4.44	10,035.8	439.2	-163.2	440.3	5.49	4.31	-3.43
10,754.0	87.91	5.59	10,041.1	532.7	-155.0	533.8	2.68	2.38	1.22

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus Unit State #186H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3644.0usft (H&P 388)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3644.0usft (H&P 388)
Well:	Zeus Unit State #186H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	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)
10,849.0	88.92	4.00	10,043.7	627.3	-147.1	628.3	1.98	1.06	-1.67
10,944.0	89.05	1.54	10,045.4	722.2	-142.5	723.2	2.59	0.14	-2.59
11,039.0	86.42	359.35	10,049.1	817.1	-141.8	818.1	3.60	-2.77	-2.31
11,133.0	86.15	359.08	10,055.2	910.9	-143.0	911.9	0.41	-0.29	-0.29
11,228.0	87.47	359.87	10,060.5	1,005.7	-143.9	1,006.7	1.62	1.39	0.83
11,323.0	87.78	0.14	10,064.5	1,100.6	-143.9	1,101.6	0.43	0.33	0.28
11,418.0	88.57	0.67	10,067.5	1,195.6	-143.2	1,196.6	1.00	0.83	0.56
11,512.0	89.32	1.10	10,069.2	1,289.6	-141.8	1,290.5	0.92	0.80	0.46
11,607.0	90.20	1.37	10,069.6	1,384.5	-139.7	1,385.5	0.97	0.93	0.28
11,702.0	93.10	0.31	10,066.9	1,479.5	-138.3	1,480.4	3.25	3.05	-1.12
11,797.0	91.52	359.35	10,063.1	1,574.4	-138.6	1,575.3	1.95	-1.66	-1.01
11,891.0	91.78	359.08	10,060.3	1,668.3	-139.9	1,669.3	0.40	0.28	-0.29
11,986.0	88.97	357.76	10,059.7	1,763.3	-142.5	1,764.3	3.27	-2.96	-1.39
12,081.0	87.52	358.73	10,062.6	1,858.2	-145.4	1,859.2	1.84	-1.53	1.02
12,176.0	87.82	359.17	10,066.5	1,953.1	-147.2	1,954.1	0.56	0.32	0.46
12,270.0	88.35	359.61	10,069.6	2,047.0	-148.2	2,048.1	0.73	0.56	0.47
12,365.0	88.66	0.05	10,072.1	2,142.0	-148.5	2,143.0	0.57	0.33	0.46
12,460.0	89.54	0.75	10,073.6	2,237.0	-147.8	2,238.0	1.18	0.93	0.74
12,555.0	89.71	1.28	10,074.2	2,332.0	-146.1	2,333.0	0.59	0.18	0.56
12,649.0	91.08	1.90	10,073.6	2,425.9	-143.5	2,426.9	1.60	1.46	0.66
12,744.0	91.78	2.69	10,071.2	2,520.8	-139.7	2,521.8	1.11	0.74	0.83
12,839.0	93.76	3.57	10,066.6	2,615.6	-134.5	2,616.5	2.28	2.08	0.93
12,934.0	92.57	2.07	10,061.4	2,710.3	-129.9	2,711.2	2.01	-1.25	-1.58
13,028.0	93.14	0.14	10,056.7	2,804.2	-128.1	2,805.0	2.14	0.61	-2.05
13,123.0	92.44	358.82	10,052.1	2,899.1	-128.9	2,899.9	1.57	-0.74	-1.39
13,218.0	90.95	359.17	10,049.3	2,994.0	-130.6	2,994.8	1.61	-1.57	0.37
13,313.0	94.07	359.70	10,045.1	3,088.9	-131.5	3,089.7	3.33	3.28	0.56
13,408.0	89.93	359.87	10,041.8	3,183.8	-131.9	3,184.7	4.36	-4.36	0.18
13,502.0	91.08	359.96	10,041.0	3,277.8	-132.0	3,278.7	1.23	1.22	0.10
13,597.0	87.52	359.08	10,042.1	3,372.8	-132.8	3,373.6	3.86	-3.75	-0.93
13,692.0	88.31	359.26	10,045.6	3,467.7	-134.2	3,468.6	0.85	0.83	0.19
13,787.0	89.98	359.35	10,047.0	3,562.7	-135.3	3,563.6	1.76	1.76	0.09
13,882.0	89.32	358.91	10,047.6	3,657.7	-136.8	3,658.6	0.83	-0.69	-0.46
13,976.0	90.81	359.00	10,047.5	3,751.6	-138.5	3,752.5	1.59	1.59	0.10
14,071.0	90.07	358.64	10,046.7	3,846.6	-140.4	3,847.5	0.87	-0.78	-0.38
14,166.0	88.75	358.38	10,047.7	3,941.6	-142.9	3,942.5	1.42	-1.39	-0.27
14,261.0	86.86	358.29	10,051.3	4,036.5	-145.7	4,037.4	1.99	-1.99	-0.09
14,355.0	87.60	359.00	10,055.9	4,130.3	-147.9	4,131.3	1.09	0.79	0.76
14,450.0	88.92	359.87	10,058.8	4,225.3	-148.8	4,226.2	1.66	1.39	0.92
14,545.0	90.33	0.75	10,059.4	4,320.3	-148.3	4,321.2	1.75	1.48	0.93
14,640.0	92.13	1.37	10,057.4	4,415.2	-146.6	4,416.2	2.00	1.89	0.65
14,735.0	93.80	2.07	10,052.4	4,510.1	-143.7	4,511.0	1.91	1.76	0.74
14,804.0	95.03	2.42	10,047.1	4,578.8	-141.0	4,579.7	1.85	1.78	0.51

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus Unit State #186H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3644.0usft (H&P 388)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3644.0usft (H&P 388)
Well:	Zeus Unit State #186H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	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)
LAST SVY									
14,806.7	95.03	2.42	10,046.9	4,581.5	-140.9	4,582.4	0.00	0.00	0.00
LTP @ 14806.7'MD, 100'FNL & 638.4'FEL									
14,870.0	95.03	2.42	10,041.3	4,644.5	-138.2	4,645.4	0.00	0.00	0.00
Projection to TD @ 14870'MD, 37'FNL & 635.3'FEL									

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									
FTP (Zeus Unit State	0.00	0.00	10,037.0	-498.0	-126.0	446,477.00	775,802.00	32° 13' 30.603 N	103° 34' 30.424 W
- actual wellpath misses target center by 352.5usft at 9902.0usft MD (9831.2 TVD, -268.2 N, -296.5 E)									
- Point									
PBHL (Zeus Unit State	0.40	359.59	10,068.0	4,651.0	-163.0	451,626.00	775,765.00	32° 14' 21.556 N	103° 34' 30.432 W
- actual wellpath misses target center by 37.0usft at 14870.0usft MD (10041.3 TVD, 4644.5 N, -138.2 E)									
- Rectangle (sides W100.0 H5,175.0 D35.0)									
LTP (Zeus Unit State :	0.00	0.00	10,068.0	4,581.0	-162.0	451,556.00	775,766.00	32° 14' 20.863 N	103° 34' 30.426 W
- actual wellpath misses target center by 29.7usft at 14803.8usft MD (10047.2 TVD, 4578.6 N, -141.0 E)									
- Point									

Formations						
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,264.1	1,264.0	Rustler Anhydrite				
1,766.1	1,766.0	Top Salt				
4,990.0	4,972.0	Base Salt				
5,239.9	5,220.0	Delaware Mountain Gp				
5,248.0	5,228.0	Lamar				
5,273.2	5,253.0	Bell Canyon				
5,292.3	5,272.0	Ramsey Sand				
6,213.5	6,188.0	Cherry Canyon				
7,724.3	7,698.0	Brushy Canyon				
9,149.6	9,123.0	Bone Spring Lime				
9,283.6	9,257.0	Upper Avalon				
9,568.0	9,541.0	Middle Avalon				
10,052.0	9,908.0	Lower Avalon				



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Zeus Unit State #186H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3644.0usft (H&P 388)
Site:	(Zeus State) Sec-9_T24-S_R-33-E	MD Reference:	KB @ 3644.0usft (H&P 388)
Well:	Zeus Unit State #186H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,334.0	9,307.4	-424.4	-302.2	Tie to Gyro
14,804.0	10,047.1	4,578.8	-141.0	LAST SVY
14,806.7	10,046.9	4,581.5	-140.9	LTP @ 14806.7'MD, 100'FNL & 638.4'FEL
14,870.0	10,041.3	4,644.5	-138.2	Projection to TD @ 14870'MD, 37'FNL & 635.3'FEL

Checked By: _____ Approved By: _____ Date: _____