

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

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 523 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 15-47035	⁵ Pool Name PURPLE SAGE; WOLFCAMP		⁶ Pool Code 98220
⁷ Property Code 326330	⁸ Property Name WTG FED COM		⁹ Well Number 212H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
C	27	26-S	29-E	-	260'	NORTH	2000'	WEST	EDDY

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
10	34	26-S	29-E	-	30'	SOUTH	1620'	WEST	EDDY
¹² Lse Code F	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
373554	SALT CREEK MIDSTREAM, LLC 20329 STATE HIGHWAY 249 HOUSTON, TX U.S.A 77070	O
373554	SALT CREEK MIDSTREAM, LLC 20329 STATE HIGHWAY 249 HOUSTON, TX U.S.A 77070	G

IV. Well Completion Data

²¹ Spud Date 6/20/2020	²² Ready Date 9/4/2020	²³ TD 17380'	²⁴ PBTD 17319'	²⁵ Perforations 10241' - 17233'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size		²⁹ Depth Set	³⁰ Sacks Cement
17.5"		13.375"		636' 626'	655
12.25"		9.625"		3029'	1089
8.75"		7.625"		9568'	718
6.75"		5.5" / 5"		9223' / 17367'	952

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: *DENIED		
Title: Regulatory Analyst			Title:		
E-mail Address: bramsey@taprk.com			Approval Date:		
Date: 9/10/2020		Phone: 720-360-4028	* Please follow up with extension notice effective 9/29/2020 for C-104 NW in place of RT. http://www.emnrd.state.nm.us/OCD/documents/NoticeforExtensionsofCompletionReports9-29-20.pdf		

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1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
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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 30-015-47035	² Pool Code 98220	³ Pool Name PURPLE SAGE; WOLFCAMP
⁴ Property Code 326330	⁵ Property Name WTG FED COM	⁶ Well Number 212H
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 2885'

¹⁰Surface Location

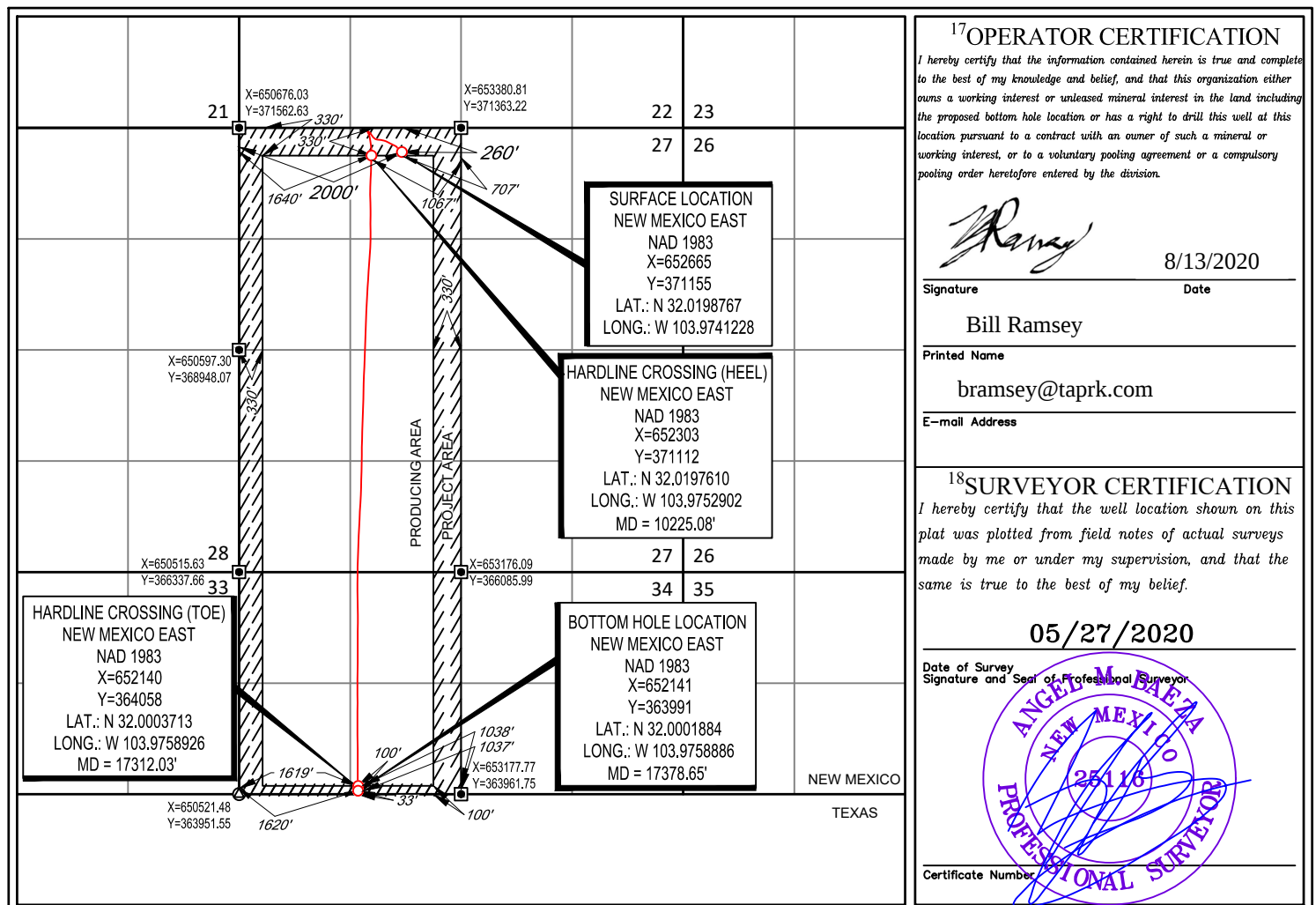
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	27	26-S	29-E	-	260'	NORTH	2000'	WEST	EDDY

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
10	34	26-S	29-E	-	33'	SOUTH	1620'	WEST	EDDY

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

**Eddy County, NM (NAD 83 NME)
(WTG Fed) Sec-27_T26-S_R-29-E
WTG Fed Com #212H**

OWB

Design: AWB

Standard Survey Report

21 July, 2020





Operator: Taprock Resources LLC
Well Name: Welcome To Golden Fed Com #212H
County: Lea
State: New Mexico
Rig Name: H&P 388
API: 30-015-47035

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: 181' MD – 17,311' MD
Projection to Bit: 17380' MD
Dates Performed: 06/20/2020 – 07/20/2020
Type of Survey: MWD

Sincerely,

A handwritten signature in blue ink, appearing to read "JB", with a stylized flourish extending to the right.

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #212H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #212H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Project	Eddy 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	(WTG Fed) Sec-27_T26-S_R-29-E		
Site Position:		Northing:	371,035.00 usft
From:	Map	Easting:	651,080.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 1' 10.419 N
		Longitude:	103° 58' 45.255 W
		Grid Convergence:	0.19 °

Well	WTG Fed Com #212H		
Well Position	+N/-S	0.0 usft	Northing: 371,155.00 usft
	+E/-W	0.0 usft	Easting: 652,665.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 1' 11.555 N
		Longitude:	103° 58' 26.839 W
		Ground Level:	2,886.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	06/23/20	6.67	59.58	47,651.00982097

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	181.71	

Survey Program	Date	07/21/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
181.0	17,380.0	Intrepid MWD (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
181.0	0.84	4.99	181.0	1.3	0.1	-1.3	0.46	0.46	0.00
333.0	1.58	117.22	333.0	1.5	2.1	-1.5	1.35	0.49	73.84
424.0	0.44	112.12	424.0	0.8	3.5	-0.9	1.26	-1.25	-5.60
541.1	2.74	64.72	541.0	1.8	6.5	-2.0	2.10	1.96	-40.48
Rustler Anhydrite									
568.0	3.30	63.43	567.9	2.4	7.7	-2.6	2.10	2.09	-4.81
660.0	2.15	40.14	659.8	4.9	11.2	-5.3	1.71	-1.25	-25.32
782.0	2.55	311.37	781.7	8.5	10.7	-8.8	2.70	0.33	-72.76
873.0	4.35	285.01	872.5	10.7	5.8	-10.9	2.59	1.98	-28.97
925.6	3.97	288.33	925.0	11.8	2.1	-11.8	0.85	-0.72	6.31

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Well:	WTG Fed Com #212H	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)
Top Salt									
1,056.0	3.12	299.86	1,055.1	15.0	-5.2	-14.8	0.85	-0.65	8.84
1,151.0	2.59	307.42	1,150.0	17.6	-9.2	-17.3	0.68	-0.56	7.96
1,245.0	2.24	305.22	1,243.9	19.9	-12.4	-19.5	0.39	-0.37	-2.34
1,340.0	1.58	302.76	1,338.9	21.7	-15.0	-21.2	0.70	-0.69	-2.59
1,436.0	1.54	292.30	1,434.9	22.9	-17.3	-22.4	0.30	-0.04	-10.90
1,531.0	1.49	283.95	1,529.8	23.7	-19.7	-23.1	0.24	-0.05	-8.79
1,626.0	1.23	286.24	1,624.8	24.3	-21.8	-23.6	0.28	-0.27	2.41
1,721.0	1.01	271.56	1,719.8	24.6	-23.7	-23.9	0.38	-0.23	-15.45
1,816.0	2.29	298.54	1,814.7	25.5	-26.2	-24.7	1.54	1.35	28.40
1,911.0	4.22	307.94	1,909.6	28.6	-30.6	-27.6	2.10	2.03	9.89
2,006.0	4.75	309.18	2,004.3	33.2	-36.4	-32.1	0.57	0.56	1.31
2,101.0	4.22	310.14	2,099.0	37.9	-42.1	-36.7	0.56	-0.56	1.01
2,196.0	3.56	314.71	2,193.8	42.3	-46.9	-40.8	0.77	-0.69	4.81
2,291.0	2.90	328.60	2,288.6	46.4	-50.2	-44.9	1.07	-0.69	14.62
2,386.0	4.04	316.82	2,383.5	50.9	-53.8	-49.2	1.41	1.20	-12.40
2,481.0	4.70	317.52	2,478.2	56.2	-58.7	-54.4	0.70	0.69	0.74
2,576.0	3.91	319.11	2,572.9	61.5	-63.4	-59.6	0.84	-0.83	1.67
2,651.3	4.61	304.49	2,648.0	65.2	-67.6	-63.1	1.71	0.92	-19.42
Base Salt									
2,672.0	4.84	301.27	2,668.6	66.1	-69.0	-64.0	1.71	1.13	-15.54
2,767.0	6.68	295.04	2,763.1	70.5	-77.5	-68.2	2.04	1.94	-6.56
2,862.0	5.89	297.66	2,857.6	75.1	-86.8	-72.5	0.88	-0.83	2.76
2,891.6	5.69	297.54	2,887.0	76.5	-89.4	-73.8	0.69	-0.69	-0.42
Delaware Mountain Gp									
2,921.7	5.48	297.40	2,917.0	77.8	-92.0	-75.1	0.69	-0.69	-0.45
Lamar									
2,922.7	5.47	297.39	2,918.0	77.9	-92.1	-75.1	0.69	-0.69	-0.47
Bell Canyon									
2,958.0	5.23	297.22	2,953.1	79.4	-95.0	-76.5	0.69	-0.69	-0.49
2,962.9	5.23	297.22	2,958.0	79.6	-95.4	-76.7	0.00	0.00	0.00
Ramsey Sand									
3,120.0	5.19	297.84	3,114.5	86.2	-108.1	-82.9	0.04	-0.03	0.39
3,216.0	5.85	292.21	3,210.0	90.1	-116.5	-86.6	0.89	0.69	-5.86
3,309.0	8.92	297.13	3,302.2	95.1	-127.3	-91.3	3.37	3.30	5.29
3,404.0	10.86	299.68	3,395.8	102.9	-141.6	-98.7	2.09	2.04	2.68
3,499.0	9.58	297.13	3,489.3	111.0	-156.4	-106.3	1.43	-1.35	-2.68
3,594.0	9.14	296.96	3,583.0	118.0	-170.2	-112.9	0.46	-0.46	-0.18
3,687.0	8.84	293.62	3,674.9	124.2	-183.3	-118.7	0.65	-0.32	-3.59
3,780.0	7.47	289.05	3,767.0	129.0	-195.6	-123.2	1.63	-1.47	-4.91
3,818.4	7.17	288.73	3,805.0	130.6	-200.2	-124.6	0.79	-0.79	-0.84
Cherry Canyon									
3,869.0	6.77	288.26	3,855.3	132.6	-206.0	-126.4	0.79	-0.79	-0.92
3,960.0	6.59	284.39	3,945.7	135.6	-216.2	-129.0	0.53	-0.20	-4.25

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #212H
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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)
4,052.0	6.73	282.28	4,037.0	138.0	-226.6	-131.2	0.31	0.15	-2.29
4,146.0	7.43	280.35	4,130.3	140.3	-237.9	-133.1	0.79	0.74	-2.05
4,239.0	7.30	278.06	4,222.5	142.2	-249.7	-134.7	0.35	-0.14	-2.46
4,332.0	5.89	278.68	4,314.9	143.7	-260.2	-135.9	1.52	-1.52	0.67
4,425.0	6.55	275.51	4,407.4	145.0	-270.2	-136.8	0.80	0.71	-3.41
4,518.0	8.40	275.16	4,499.6	146.1	-282.3	-137.6	1.99	1.99	-0.38
4,613.0	7.30	280.35	4,593.7	147.8	-295.1	-138.9	1.38	-1.16	5.46
4,803.0	4.88	293.44	4,782.6	153.2	-314.4	-143.7	1.46	-1.27	6.89
4,898.0	4.62	301.44	4,877.3	156.8	-321.4	-147.1	0.75	-0.27	8.42
4,992.0	5.41	317.00	4,970.9	162.0	-327.7	-152.2	1.67	0.84	16.55
5,085.0	4.79	315.50	5,063.6	168.0	-333.4	-158.0	0.68	-0.67	-1.61
5,178.0	4.31	310.23	5,156.3	173.0	-338.8	-162.8	0.68	-0.52	-5.67
5,271.0	4.35	315.33	5,249.0	177.8	-343.9	-167.4	0.42	0.04	5.48
5,366.0	5.14	326.84	5,343.7	183.9	-348.8	-173.4	1.30	0.83	12.12
5,461.0	4.79	325.79	5,438.3	190.7	-353.3	-180.1	0.38	-0.37	-1.11
5,479.7	4.55	325.26	5,457.0	192.0	-354.2	-181.3	1.28	-1.26	-2.85
Brushy Canyon									
5,556.0	3.60	322.36	5,533.1	196.4	-357.4	-185.6	1.28	-1.25	-3.80
5,652.0	3.12	317.35	5,628.9	200.7	-361.0	-189.8	0.59	-0.50	-5.22
5,746.0	3.78	328.77	5,722.7	205.2	-364.3	-194.3	1.01	0.70	12.15
5,839.0	4.13	334.84	5,815.5	210.9	-367.3	-199.8	0.59	0.38	6.53
5,935.0	3.60	331.41	5,911.3	216.6	-370.2	-205.5	0.60	-0.55	-3.57
6,030.0	3.16	330.97	6,006.1	221.6	-372.9	-210.3	0.46	-0.46	-0.46
6,125.0	2.81	322.45	6,101.0	225.7	-375.6	-214.4	0.59	-0.37	-8.97
6,220.0	2.33	320.95	6,195.9	229.0	-378.3	-217.6	0.51	-0.51	-1.58
6,313.0	1.80	306.98	6,288.8	231.4	-380.6	-219.9	0.78	-0.57	-15.02
6,408.0	1.63	279.38	6,383.8	232.5	-383.2	-221.0	0.88	-0.18	-29.05
6,503.0	1.71	263.82	6,478.8	232.6	-385.9	-220.9	0.48	0.08	-16.38
6,582.3	1.65	239.01	6,558.0	231.9	-388.0	-220.2	0.91	-0.08	-31.30
Bone Spring Lime									
6,598.0	1.67	234.12	6,573.7	231.6	-388.4	-219.9	0.91	0.16	-31.09
6,693.0	1.98	223.48	6,668.7	229.6	-390.7	-217.8	0.48	0.33	-11.20
6,710.3	1.69	228.48	6,686.0	229.2	-391.1	-217.4	1.91	-1.68	28.87
Upper Avalon									
6,788.0	0.88	290.02	6,763.7	228.7	-392.5	-216.8	1.91	-1.04	79.23
6,883.0	1.14	291.51	6,858.6	229.3	-394.1	-217.4	0.28	0.27	1.57
6,978.0	1.89	272.96	6,953.6	229.7	-396.5	-217.7	0.93	0.79	-19.53
7,072.0	1.19	301.44	7,047.6	230.3	-398.9	-218.3	1.08	-0.74	30.30
7,094.4	1.18	302.18	7,070.0	230.5	-399.3	-218.5	0.09	-0.05	3.31
Middle Avalon									
7,167.0	1.14	304.69	7,142.6	231.3	-400.5	-219.3	0.09	-0.05	3.46
7,262.0	2.33	299.42	7,237.5	232.8	-403.0	-220.7	1.26	1.25	-5.55
7,296.5	2.71	305.84	7,272.0	233.6	-404.2	-221.5	1.37	1.10	18.58
Lower Avalon									

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7,357.0	3.43	313.48	7,332.4	235.7	-406.7	-223.5	1.37	1.19	12.64
7,452.0	5.14	327.19	7,427.1	241.2	-411.1	-228.9	2.09	1.80	14.43
7,545.0	2.77	326.67	7,519.9	246.6	-414.6	-234.1	2.55	-2.55	-0.56
7,589.1	2.10	4.86	7,564.0	248.3	-415.1	-235.8	3.88	-1.53	86.52
1st Bone Spring Sand									
7,640.0	2.81	49.46	7,614.8	250.1	-414.1	-237.6	3.88	1.40	87.70
7,736.0	2.20	58.42	7,710.7	252.6	-410.7	-240.2	0.75	-0.64	9.33
7,831.0	1.63	52.36	7,805.7	254.3	-408.1	-242.0	0.64	-0.60	-6.38
7,877.3	1.43	57.87	7,852.0	255.0	-407.1	-242.8	0.54	-0.44	11.88
2nd Bone Spring Carb									
7,926.0	1.23	65.54	7,900.6	255.6	-406.1	-243.4	0.54	-0.40	15.77
8,020.0	0.88	77.32	7,994.6	256.2	-404.5	-244.0	0.44	-0.37	12.53
8,115.0	0.70	86.55	8,089.6	256.4	-403.2	-244.2	0.23	-0.19	9.72
8,139.4	0.46	96.31	8,114.0	256.4	-402.9	-244.2	1.06	-0.98	40.00
2nd Bone Spring Sand									
8,210.0	0.40	217.15	8,184.6	256.1	-402.8	-244.0	1.06	-0.09	171.14
8,305.0	1.27	249.94	8,279.6	255.5	-404.0	-243.3	1.01	0.92	34.52
8,396.0	1.41	192.72	8,370.6	254.1	-405.2	-241.9	1.42	0.15	-62.88
8,492.0	1.45	170.66	8,466.6	251.7	-405.2	-239.5	0.57	0.04	-22.98
8,587.0	1.80	188.59	8,561.5	249.0	-405.3	-236.8	0.65	0.37	18.87
8,682.0	1.85	152.82	8,656.5	246.2	-404.8	-234.0	1.18	0.05	-37.65
8,745.6	1.85	149.70	8,720.0	244.4	-403.8	-232.3	0.16	0.00	-4.91
3rd Bone Spring Carb									
8,777.0	1.85	148.16	8,751.4	243.5	-403.3	-231.4	0.16	0.00	-4.90
8,872.0	1.63	175.85	8,846.4	240.9	-402.4	-228.8	0.90	-0.23	29.15
8,966.0	0.62	76.09	8,940.4	239.7	-401.8	-227.6	1.96	-1.07	-106.13
9,061.0	0.88	95.95	9,035.4	239.7	-400.6	-227.7	0.38	0.27	20.91
9,156.0	0.62	148.86	9,130.3	239.2	-399.6	-227.2	0.74	-0.27	55.69
9,252.0	0.75	177.78	9,226.3	238.1	-399.3	-226.1	0.38	0.14	30.13
9,347.0	0.97	182.52	9,321.3	236.7	-399.3	-224.7	0.24	0.23	4.99
9,409.7	1.34	175.89	9,384.0	235.5	-399.2	-223.4	0.63	0.60	-10.58
3rd Bone Spring Sand									
9,442.0	1.54	173.74	9,416.3	234.6	-399.2	-222.6	0.63	0.61	-6.65
9,516.0	1.89	183.14	9,490.3	232.4	-399.1	-220.4	0.61	0.47	12.70
9,595.0	2.07	183.32	9,569.2	229.7	-399.3	-217.7	0.23	0.23	0.23
9,689.0	3.38	172.15	9,663.1	225.3	-399.0	-213.3	1.50	1.39	-11.88
9,720.0	7.17	163.04	9,694.0	222.5	-398.3	-210.5	12.49	12.23	-29.36
3rd BS W Sand									
9,785.0	15.25	158.79	9,757.7	210.6	-394.0	-198.8	12.49	12.43	-6.54
9,812.5	18.00	161.64	9,784.0	203.3	-391.4	-191.5	10.43	10.01	10.36
Wolfcamp A X Sand									
9,878.0	24.66	165.91	9,845.0	180.4	-384.9	-168.8	10.43	10.17	6.52
9,927.4	29.68	169.31	9,889.0	158.3	-380.1	-146.9	10.63	10.16	6.88
Wolfcamp A Y Sand									
9,973.0	34.37	171.63	9,927.6	134.5	-376.1	-123.2	10.63	10.29	5.09

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #212H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #212H	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)
10,057.9	42.54	172.35	9,994.0	82.3	-368.8	-71.2	9.65	9.63	0.85
Wolfcamp A Lower									
10,068.0	43.52	172.42	10,001.4	75.4	-367.9	-64.4	9.65	9.63	0.70
10,164.0	50.68	177.78	10,066.8	5.4	-362.1	5.4	8.50	7.46	5.58
10,225.8	53.17	181.17	10,104.9	-43.2	-361.6	54.0	5.90	4.03	5.48
FTP @ 10225.8'MD, 330'FNL & 1067.6'FEL									
10,257.0	54.46	182.79	10,123.3	-68.4	-362.5	79.2	5.90	4.14	5.21
10,348.0	66.02	181.21	10,168.4	-147.2	-365.2	158.0	12.79	12.70	-1.74
10,440.0	76.53	182.26	10,197.9	-234.2	-367.9	245.0	11.47	11.42	1.14
10,533.0	79.96	183.05	10,216.8	-325.1	-372.1	336.1	3.78	3.69	0.85
10,607.5	79.67	182.20	10,230.0	-398.4	-375.4	409.4	1.19	-0.39	-1.14
Wolfcamp B									
10,625.0	79.60	182.00	10,233.1	-415.5	-376.1	426.6	1.19	-0.39	-1.14
10,718.0	84.62	179.27	10,245.9	-507.6	-377.1	518.7	6.13	5.40	-2.94
10,814.0	91.16	178.39	10,249.4	-603.5	-375.1	614.4	6.87	6.81	-0.92
10,909.0	93.71	179.45	10,245.4	-698.4	-373.3	709.2	2.91	2.68	1.12
10,968.0	93.80	180.86	10,241.5	-757.2	-373.5	768.1	2.39	0.15	2.39
11,063.0	89.93	179.62	10,238.5	-852.2	-373.9	863.0	4.28	-4.07	-1.31
11,158.0	88.26	179.01	10,240.0	-947.2	-372.8	957.9	1.87	-1.76	-0.64
11,253.0	87.03	181.29	10,243.9	-1,042.1	-373.0	1,052.7	2.73	-1.29	2.40
11,348.0	87.52	183.23	10,248.4	-1,136.9	-376.7	1,147.6	2.10	0.52	2.04
11,443.0	87.78	183.93	10,252.3	-1,231.6	-382.7	1,242.5	0.79	0.27	0.74
11,538.0	89.10	183.93	10,254.9	-1,326.4	-389.2	1,337.4	1.39	1.39	0.00
11,631.0	88.84	183.93	10,256.5	-1,419.1	-395.6	1,430.3	0.28	-0.28	0.00
11,727.0	88.09	183.67	10,259.1	-1,514.9	-401.9	1,526.2	0.83	-0.78	-0.27
11,820.0	89.05	183.49	10,261.4	-1,607.7	-407.7	1,619.1	1.05	1.03	-0.19
11,915.0	91.38	183.32	10,261.1	-1,702.5	-413.4	1,714.1	2.46	2.45	-0.18
12,011.0	90.81	182.79	10,259.2	-1,798.3	-418.5	1,810.0	0.81	-0.59	-0.55
12,106.0	92.22	182.44	10,256.7	-1,893.2	-422.8	1,905.0	1.53	1.48	-0.37
12,201.0	92.75	182.09	10,252.6	-1,988.0	-426.6	1,999.9	0.67	0.56	-0.37
12,296.0	92.79	181.73	10,248.0	-2,082.9	-429.7	2,094.8	0.38	0.04	-0.38
12,392.0	90.51	182.09	10,245.2	-2,178.8	-432.9	2,190.7	2.40	-2.38	0.38
12,487.0	89.85	182.09	10,244.9	-2,273.7	-436.4	2,285.7	0.69	-0.69	0.00
12,582.0	89.23	182.09	10,245.7	-2,368.6	-439.8	2,380.7	0.65	-0.65	0.00
12,677.0	88.04	181.47	10,248.0	-2,463.6	-442.8	2,475.7	1.41	-1.25	-0.65
12,773.0	90.68	183.05	10,249.0	-2,559.5	-446.6	2,571.7	3.20	2.75	1.65
12,867.0	90.11	182.26	10,248.4	-2,653.4	-450.9	2,665.6	1.04	-0.61	-0.84
12,963.0	90.46	181.73	10,247.9	-2,749.3	-454.3	2,761.6	0.66	0.36	-0.55
13,058.0	90.07	180.86	10,247.5	-2,844.3	-456.4	2,856.6	1.00	-0.41	-0.92
13,153.0	90.46	181.73	10,247.0	-2,939.3	-458.6	2,951.6	1.00	0.41	0.92
13,248.0	92.66	182.44	10,244.4	-3,034.1	-462.0	3,046.6	2.43	2.32	0.75
13,343.0	92.57	181.82	10,240.1	-3,129.0	-465.6	3,141.5	0.66	-0.09	-0.65
13,438.0	92.18	181.73	10,236.2	-3,223.9	-468.5	3,236.4	0.42	-0.41	-0.09
13,533.0	92.00	181.73	10,232.7	-3,318.8	-471.4	3,331.3	0.19	-0.19	0.00

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #212H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #212H	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)
13,629.0	91.82	181.21	10,229.5	-3,414.7	-473.8	3,427.3	0.57	-0.19	-0.54
13,724.0	91.16	181.12	10,227.0	-3,509.6	-475.8	3,522.2	0.70	-0.69	-0.09
13,820.0	90.11	180.68	10,226.0	-3,605.6	-477.3	3,618.2	1.19	-1.09	-0.46
13,915.0	89.01	180.33	10,226.7	-3,700.6	-478.1	3,713.2	1.22	-1.16	-0.37
14,011.0	90.64	181.73	10,227.0	-3,796.6	-479.8	3,809.2	2.24	1.70	1.46
14,106.0	90.33	181.56	10,226.2	-3,891.5	-482.6	3,904.2	0.37	-0.33	-0.18
14,202.0	90.15	181.65	10,225.8	-3,987.5	-485.2	4,000.2	0.21	-0.19	0.09
14,297.0	91.47	182.88	10,224.5	-4,082.4	-489.0	4,095.2	1.90	1.39	1.29
14,391.0	91.03	183.14	10,222.4	-4,176.2	-493.9	4,189.1	0.54	-0.47	0.28
14,486.0	91.03	183.23	10,220.7	-4,271.1	-499.2	4,284.1	0.09	0.00	0.09
14,581.0	91.78	182.79	10,218.4	-4,365.9	-504.2	4,379.0	0.92	0.79	-0.46
14,677.0	91.47	182.70	10,215.6	-4,461.8	-508.8	4,475.0	0.34	-0.32	-0.09
14,771.0	90.68	182.52	10,213.9	-4,555.7	-513.1	4,568.9	0.86	-0.84	-0.19
14,866.0	90.51	181.91	10,212.9	-4,650.6	-516.7	4,663.9	0.67	-0.18	-0.64
14,961.0	91.78	182.35	10,211.0	-4,745.5	-520.3	4,758.9	1.41	1.34	0.46
15,056.0	90.90	181.82	10,208.8	-4,840.4	-523.7	4,853.9	1.08	-0.93	-0.56
15,151.0	90.02	181.21	10,208.0	-4,935.4	-526.2	4,948.9	1.13	-0.93	-0.64
15,246.0	91.25	180.50	10,207.0	-5,030.3	-527.7	5,043.9	1.49	1.29	-0.75
15,341.0	91.21	180.06	10,204.9	-5,125.3	-528.1	5,138.8	0.46	-0.04	-0.46
15,436.0	90.95	179.54	10,203.1	-5,220.3	-527.8	5,233.7	0.61	-0.27	-0.55
15,531.0	90.42	179.19	10,202.0	-5,315.3	-526.7	5,328.6	0.67	-0.56	-0.37
15,626.0	89.80	178.83	10,201.8	-5,410.3	-525.1	5,423.5	0.75	-0.65	-0.38
15,721.0	91.43	179.89	10,200.8	-5,505.3	-524.0	5,518.4	2.05	1.72	1.12
15,816.0	91.65	180.42	10,198.2	-5,600.2	-524.3	5,613.4	0.60	0.23	0.56
15,910.0	90.86	180.33	10,196.2	-5,694.2	-524.9	5,707.3	0.85	-0.84	-0.10
16,005.0	90.02	179.80	10,195.4	-5,789.2	-525.0	5,802.3	1.05	-0.88	-0.56
16,100.0	89.49	179.54	10,195.9	-5,884.2	-524.5	5,897.2	0.62	-0.56	-0.27
16,195.0	90.81	180.50	10,195.6	-5,979.2	-524.5	5,992.2	1.72	1.39	1.01
16,290.0	91.34	181.03	10,193.8	-6,074.2	-525.8	6,087.1	0.79	0.56	0.56
16,385.0	90.90	180.68	10,192.0	-6,169.1	-527.2	6,182.1	0.59	-0.46	-0.37
16,479.0	90.42	180.15	10,190.9	-6,263.1	-527.9	6,276.1	0.76	-0.51	-0.56
16,574.0	89.67	180.15	10,190.8	-6,358.1	-528.1	6,371.1	0.79	-0.79	0.00
16,669.0	88.97	179.36	10,191.9	-6,453.1	-527.7	6,466.0	1.11	-0.74	-0.83
16,765.0	90.86	180.33	10,192.1	-6,549.1	-527.4	6,561.9	2.21	1.97	1.01
16,860.0	91.21	180.50	10,190.4	-6,644.1	-528.1	6,656.9	0.41	0.37	0.18
16,955.0	90.77	180.24	10,188.7	-6,739.1	-528.7	6,751.9	0.54	-0.46	-0.27
17,050.0	90.15	179.71	10,188.0	-6,834.1	-528.7	6,846.8	0.86	-0.65	-0.56
17,145.0	89.05	179.36	10,188.6	-6,929.1	-527.9	6,941.7	1.22	-1.16	-0.37
17,240.0	87.52	178.92	10,191.5	-7,024.0	-526.5	7,036.6	1.68	-1.61	-0.46
17,311.0	87.69	178.75	10,194.4	-7,094.9	-525.1	7,107.4	0.34	0.24	-0.24
LAST SVY									
17,313.3	87.69	178.75	10,194.5	-7,097.2	-525.0	7,109.7	0.00	0.00	0.00
LTP @ 17313.3'MD, 100'FSL & 1037.7'FEL									

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #212H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #212H	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)	
17,380.0	87.69	178.75	10,197.2	-7,163.9	-523.6	7,176.3	0.00	0.00	0.00	
Projection to TD @ 17380'MD, 33.4'FSL & 1036.3'FEL										

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	
PBHL (WTG Fed Corr	-0.50	179.86	10,182.0	-7,167.0	-532.0	363,988.00	652,133.00	32° 0' 0.647 N	103° 58' 33.294 W	
- actual wellpath misses target center by 17.7usft at 17380.0usft MD (10197.2 TVD, -7163.9 N, -523.6 E)										
- Rectangle (sides W100.0 H2,202.0 D30.0)										
LTP (WTG Fed Com #	0.00	0.00	10,182.0	-7,097.0	-532.0	364,058.00	652,133.00	32° 0' 1.339 N	103° 58' 33.292 W	
- actual wellpath misses target center by 14.3usft at 17312.4usft MD (10194.5 TVD, -7096.3 N, -525.0 E)										
- Point										
PI (WTG Fed Com #2	-0.50	181.71	10,201.0	-4,968.0	-537.0	366,187.00	652,128.00	32° 0' 22.409 N	103° 58' 33.268 W	
- actual wellpath misses target center by 12.3usft at 15183.9usft MD (10207.9 TVD, -4968.2 N, -526.9 E)										
- Rectangle (sides W100.0 H4,930.0 D30.0)										
FTP (WTG Fed Com #	0.00	0.00	10,241.0	-41.0	-390.0	371,114.00	652,275.00	32° 1' 11.162 N	103° 58' 31.371 W	
- actual wellpath misses target center by 116.6usft at 10292.6usft MD (10142.8 TVD, -98.1 N, -363.8 E)										
- Point										

Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well WTG Fed Com #212H
Project:	Eddy County, NM (NAD 83 NME)	TVD Reference:	KB @ 2912.0usft (H&P 388)
Site:	(WTG Fed) Sec-27_T26-S_R-29-E	MD Reference:	KB @ 2912.0usft (H&P 388)
Well:	WTG Fed Com #212H	North Reference:	Grid
Wellbore:	OWB	Survey Calculation Method:	Minimum Curvature
Design:	AWB	Database:	EDM 5000.15 Single User Db

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
541.1	541.0	Rustler Anhydrite			
925.6	925.0	Top Salt			
2,651.3	2,648.0	Base Salt			
2,891.6	2,887.0	Delaware Mountain Gp			
2,921.7	2,917.0	Lamar			
2,922.7	2,918.0	Bell Canyon			
2,962.9	2,958.0	Ramsey Sand			
3,818.4	3,805.0	Cherry Canyon			
5,479.7	5,457.0	Brushy Canyon			
6,582.3	6,558.0	Bone Spring Lime			
6,710.3	6,686.0	Upper Avalon			
7,094.4	7,070.0	Middle Avalon			
7,296.5	7,272.0	Lower Avalon			
7,589.1	7,564.0	1st Bone Spring Sand			
7,877.3	7,852.0	2nd Bone Spring Carb			
8,139.4	8,114.0	2nd Bone Spring Sand			
8,745.6	8,720.0	3rd Bone Spring Carb			
9,409.7	9,384.0	3rd Bone Spring Sand			
9,720.0	9,694.0	3rd BS W Sand			
9,812.5	9,784.0	Wolfcamp A X Sand			
9,927.4	9,889.0	Wolfcamp A Y Sand			
10,057.9	9,994.0	Wolfcamp A Lower			
10,607.5	10,230.0	Wolfcamp B			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,225.8	10,104.9	-43.2	-361.6	FTP @ 10225.8'MD, 330'FNL & 1067.6'FEL
17,311.0	10,194.4	-7,094.9	-525.1	LAST SVY
17,313.3	10,194.5	-7,097.2	-525.0	LTP @ 17313.3'MD, 100'FSL & 1037.7'FEL
17,380.0	10,197.2	-7,163.9	-523.6	Projection to TD @ 17380'MD, 33.4'FSL & 1036.3'FEL

Checked By: _____ Approved By: _____ Date: _____