Rec'd 9/9/2020 - NMOCD

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	[2]Pool Code	[3]Pool Name
30-025-46671	98098	WC-025 G-09 S243532M; WOLFBONE

[4]Property Code	[5]Property Name	[6]Well Number
326772	GIPPLE FED COM	214H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372043	TAP ROCK OPERATING, LLC.	3284'

[10]Surface Location

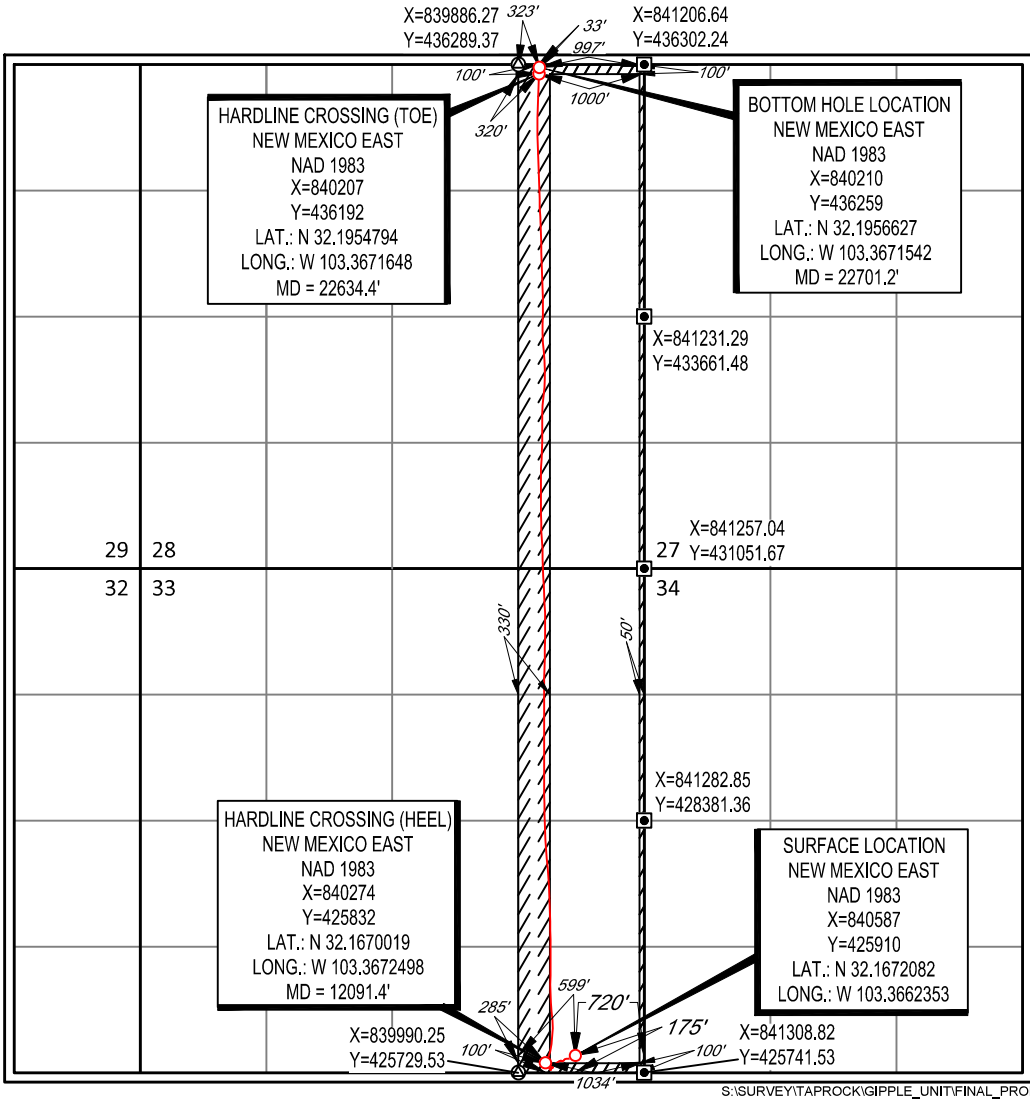
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	33	24-S	35-E	-	175'	SOUTH	720'	EAST	LEA

[11]Bottom 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
A	28	24-S	35-E	-	33'	NORTH	997'	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.



[17]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.

Signature — Date: 6/1/2020

Bill Ramsey
Printed Name

bramsey@taprk.com
E-mail Address

[18]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.

12/05/2018
Date of Survey
Signature and Seal of Professional Surveyor

ANGEL M. BAEZA
NEW MEXICO
25116
PROFESSIONAL SURVEYOR

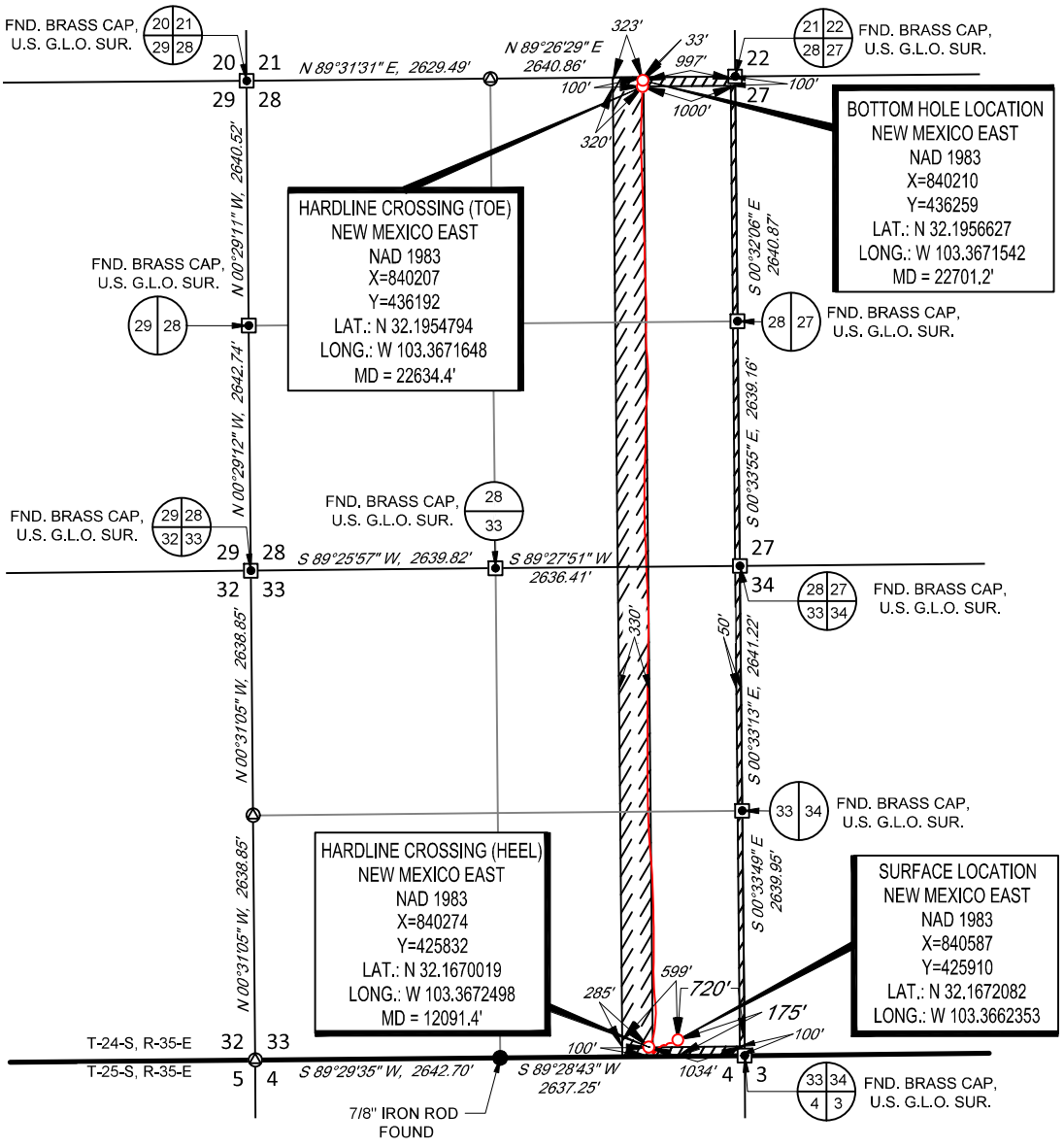
Certificate Number

S:\SURVEY\TAPROCK\GIPPLE_UNIT\FINAL_PRODUCTS\C_GIPPLE_FED_COM_214H.DWG 5/29/2020 12:40:29 PM abaeza

SCALE: 1" = 2000'

0' 1000' 2000'

SECTION 33, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



LEASE NAME & WELL NO.: GIPPLE FED COM #214H

SECTION 33 TWP 24-S RGE 35-E SURVEY N.M.P.M.

COUNTY LEA STATE NM ELEVATION 3284'

DESCRIPTION 175' FSL & 720' FEL

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

TAP ROCK

GIPPLE FED COM 214H PRE-COMPLETION	REVISION:	
	INT	DATE
DATE: 05/27/2020		
FILE: C_GIPPLE _FED_COM_214H		
DRAWN BY: MML		
SHEET : 1 OF 1		

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.

S:\SURVEY\TAPROCK\GIPPLE_UNIT\FINAL_PRODUCTS\C_GIPPLE _FED_COM_214H.DWG 5/29/2020 12:40:29 PM abaeza

Rec'd 9/9/2020 - NMOCD

Tap Rock Resources, LLC

Lea County, NM (NAD 83 NME)
(Gipple) Sec-33_T-24-S_R-35-E
Gipple Fed Com #214H
API# 30-025-46671
OWB

Design: AWB

Standard Survey Report

30 March, 2020

Operator: Tap Rock Resources, LLC.
Well Name: Gipple Fed Com #214H
County: Lea
State: New Mexico
Rig Name: H&P 376
API: 30-025-46671

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:	172' MD – 22,631' MD
Projection to Bit:	22,703' MD
Dates Performed:	02/12/2020 – 3/29/2020
Type of Survey:	MWD

Sincerely,

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB @ 3310.5usft (H&P 376)
Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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 (Gipple) Sec-33_T-24-S_R-35-E

Site Position:		**Northing:**	425,961.00 usft	**Latitude:**	32° 10' 2.448 N
From:	Map	**Easting:**	840,662.00 usft	**Longitude:**	103° 21' 57.572 W
Position Uncertainty:	0.0 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.52 °

Well Gipple Fed Com #214H

Well Position	**+N/-S**	0.0 usft	**Northing:**	425,910.00 usft	**Latitude:**	32° 10' 1.950 N
	+E/-W	0.0 usft	**Easting:**	840,587.00 usft	**Longitude:**	103° 21' 58.450 W
Position Uncertainty		0.0 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,284.0 usft

Wellbore OWB

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	02/14/20	6.56	60.01	47,652.84848749

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	359.45

Survey Program **Date** 03/30/20

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
172.0	22,703.0	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
172.0	1.69	226.85	172.0	-1.7	-1.9	-1.7	0.98	0.98	0.00
233.0	1.61	232.87	232.9	-2.9	-3.2	-2.8	0.31	-0.13	9.87
321.0	1.43	226.45	320.9	-4.4	-5.0	-4.3	0.28	-0.20	-7.30
414.0	1.13	229.49	413.9	-5.8	-6.5	-5.7	0.33	-0.32	3.27
470.1	1.57	229.41	470.0	-6.6	-7.5	-6.6	0.79	0.79	-0.14
Rustler Anhydrite									
508.0	1.87	229.38	507.9	-7.4	-8.4	-7.3	0.79	0.79	-0.08
601.0	1.60	241.64	600.8	-9.0	-10.7	-8.9	0.49	-0.29	13.18
693.0	1.45	246.30	692.8	-10.0	-12.9	-9.9	0.21	-0.16	5.07
786.0	1.49	251.12	785.8	-10.9	-15.1	-10.8	0.14	0.04	5.18

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
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Well:	Gipple Fed Com #214H	**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)
878.0	1.41	260.93	877.7	-11.5	-17.3	-11.3	0.28	-0.09	10.66
895.3	1.28	265.51	895.0	-11.5	-17.7	-11.4	0.98	-0.76	26.49
Top Salt									
930.0	1.05	277.94	929.7	-11.5	-18.4	-11.3	0.98	-0.66	35.81
1,069.0	1.02	271.54	1,068.7	-11.3	-20.9	-11.1	0.09	-0.02	-4.60
1,164.0	0.75	267.97	1,163.7	-11.3	-22.4	-11.1	0.29	-0.28	-3.76
1,259.0	0.65	280.86	1,258.7	-11.2	-23.6	-11.0	0.20	-0.11	13.57
1,353.0	0.67	280.81	1,352.7	-11.0	-24.6	-10.8	0.02	0.02	-0.05
1,448.0	0.65	274.20	1,447.7	-10.9	-25.7	-10.6	0.08	-0.02	-6.96
1,543.0	0.46	292.45	1,542.7	-10.7	-26.6	-10.4	0.27	-0.20	19.21
1,637.0	0.37	309.86	1,636.7	-10.4	-27.2	-10.1	0.16	-0.10	18.52
1,732.0	0.33	327.24	1,731.7	-9.9	-27.6	-9.7	0.12	-0.04	18.29
1,827.0	0.25	333.98	1,826.7	-9.5	-27.8	-9.2	0.09	-0.08	7.09
1,921.0	0.30	302.43	1,920.7	-9.2	-28.1	-8.9	0.17	0.05	-33.56
2,016.0	1.57	235.96	2,015.6	-9.8	-29.4	-9.5	1.55	1.34	-69.97
2,111.0	3.20	230.44	2,110.6	-12.2	-32.5	-11.9	1.73	1.72	-5.81
2,206.0	2.48	219.92	2,205.4	-15.5	-35.9	-15.1	0.93	-0.76	-11.07
2,300.0	2.24	214.88	2,299.4	-18.5	-38.2	-18.2	0.34	-0.26	-5.36
2,395.0	2.03	223.05	2,394.3	-21.3	-40.4	-20.9	0.39	-0.22	8.60
2,490.0	2.77	239.19	2,489.2	-23.7	-43.6	-23.3	1.05	0.78	16.99
2,585.0	2.28	240.73	2,584.1	-25.8	-47.2	-25.3	0.52	-0.52	1.62
2,680.0	1.82	242.38	2,679.1	-27.4	-50.2	-26.9	0.49	-0.48	1.74
2,775.0	1.52	251.43	2,774.0	-28.5	-52.7	-28.0	0.42	-0.32	9.53
2,869.0	4.20	257.70	2,867.9	-29.7	-57.2	-29.1	2.87	2.85	6.67
2,964.0	3.94	258.25	2,962.6	-31.1	-63.8	-30.4	0.28	-0.27	0.58
3,059.0	3.16	260.55	3,057.5	-32.2	-69.6	-31.5	0.83	-0.82	2.42
3,153.0	2.92	264.80	3,151.3	-32.8	-74.6	-32.1	0.35	-0.26	4.52
3,248.0	2.95	266.78	3,246.2	-33.1	-79.4	-32.4	0.11	0.03	2.08
3,343.0	2.42	266.52	3,341.1	-33.4	-83.8	-32.6	0.56	-0.56	-0.27
3,437.0	2.01	265.50	3,435.0	-33.7	-87.5	-32.8	0.44	-0.44	-1.09
3,532.0	2.05	262.67	3,530.0	-34.0	-90.8	-33.1	0.11	0.04	-2.98
3,627.0	4.44	258.99	3,624.8	-34.9	-96.1	-34.0	2.52	2.52	-3.87
3,722.0	3.91	256.08	3,719.6	-36.4	-102.9	-35.4	0.60	-0.56	-3.06
3,816.0	3.15	244.42	3,813.4	-38.3	-108.3	-37.3	1.11	-0.81	-12.40
3,911.0	2.80	232.85	3,908.3	-40.8	-112.5	-39.7	0.73	-0.37	-12.18
4,006.0	1.70	215.76	4,003.2	-43.4	-115.2	-42.3	1.34	-1.16	-17.99
4,100.0	1.99	208.02	4,097.1	-45.9	-116.8	-44.8	0.41	0.31	-8.23
4,195.0	2.69	214.98	4,192.1	-49.2	-118.8	-48.1	0.79	0.74	7.33
4,290.0	2.20	219.19	4,287.0	-52.5	-121.2	-51.3	0.55	-0.52	4.43
4,384.0	2.94	231.04	4,380.9	-55.4	-124.3	-54.2	0.97	0.79	12.61
4,479.0	3.52	248.94	4,475.7	-58.0	-128.9	-56.7	1.22	0.61	18.84
4,574.0	3.27	258.72	4,570.6	-59.5	-134.3	-58.2	0.66	-0.26	10.29
4,669.0	2.32	272.39	4,665.4	-60.0	-138.8	-58.6	1.21	-1.00	14.39

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB @ 3310.5usft (H&P 376)
Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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)
4,763.0	1.44	298.40	4,759.4	-59.3	-141.8	-58.0	1.28	-0.94	27.67
4,813.6	1.25	316.09	4,810.0	-58.6	-142.7	-57.3	0.90	-0.37	34.95
Base Salt									
4,858.0	1.21	334.58	4,854.4	-57.9	-143.3	-56.5	0.90	-0.10	41.66
4,953.0	0.99	327.39	4,949.4	-56.3	-144.1	-54.9	0.27	-0.23	-7.57
4,978.0	1.00	325.02	4,974.4	-55.9	-144.4	-54.5	0.17	0.04	-9.48
5,127.0	0.89	340.51	5,123.3	-53.8	-145.5	-52.4	0.19	-0.07	10.40
5,222.0	2.18	263.01	5,218.3	-53.3	-147.5	-51.9	2.28	1.36	-81.58
5,273.7	2.41	257.90	5,270.0	-53.6	-149.6	-52.2	0.59	0.44	-9.88
Delaware Mountain Gp									
5,278.7	2.43	257.46	5,275.0	-53.7	-149.8	-52.2	0.59	0.46	-8.85
Lamar									
5,303.8	2.55	255.36	5,300.0	-53.9	-150.8	-52.5	0.59	0.47	-8.37
Bell Canyon									
5,317.0	2.61	254.33	5,313.2	-54.1	-151.4	-52.6	0.59	0.48	-7.79
5,328.8	2.59	253.67	5,325.0	-54.2	-151.9	-52.8	0.31	-0.18	-5.59
Ramsey Sand									
5,411.0	2.45	248.77	5,407.1	-55.4	-155.4	-53.9	0.31	-0.17	-5.96
5,506.0	2.71	249.34	5,502.0	-56.9	-159.3	-55.4	0.28	0.27	0.60
5,601.0	2.85	248.99	5,596.9	-58.6	-163.7	-57.0	0.15	0.15	-0.37
5,696.0	2.51	249.12	5,691.8	-60.1	-167.8	-58.5	0.36	-0.36	0.14
5,790.0	2.52	244.93	5,785.7	-61.8	-171.6	-60.1	0.20	0.01	-4.46
5,885.0	2.76	239.87	5,880.6	-63.8	-175.5	-62.1	0.35	0.25	-5.33
5,979.0	2.39	236.35	5,974.5	-66.0	-179.1	-64.3	0.43	-0.39	-3.74
6,074.0	1.98	230.04	6,069.5	-68.2	-182.0	-66.4	0.50	-0.43	-6.64
6,169.0	3.67	237.24	6,164.3	-70.9	-185.8	-69.1	1.81	1.78	7.58
6,263.0	4.30	237.40	6,258.1	-74.4	-191.3	-72.5	0.67	0.67	0.17
6,269.9	4.31	237.27	6,265.0	-74.7	-191.7	-72.8	0.23	0.18	-1.89
Cherry Canyon									
6,358.0	4.47	235.67	6,352.8	-78.4	-197.3	-76.5	0.23	0.18	-1.82
6,452.0	4.49	232.24	6,446.5	-82.7	-203.3	-80.8	0.29	0.02	-3.65
6,547.0	4.25	235.64	6,541.3	-87.0	-209.1	-85.0	0.37	-0.25	3.58
6,642.0	4.60	231.84	6,636.0	-91.3	-215.0	-89.2	0.48	0.37	-4.00
6,737.0	4.61	229.22	6,730.7	-96.2	-220.9	-94.0	0.22	0.01	-2.76
6,831.0	4.67	229.10	6,824.4	-101.1	-226.7	-99.0	0.06	0.06	-0.13
6,926.0	3.56	239.24	6,919.1	-105.2	-232.1	-102.9	1.39	-1.17	10.67
7,020.0	3.58	243.25	7,012.9	-108.0	-237.2	-105.7	0.27	0.02	4.27
7,115.0	3.23	239.22	7,107.8	-110.7	-242.2	-108.4	0.45	-0.37	-4.24
7,210.0	3.23	242.66	7,202.6	-113.3	-246.9	-110.9	0.20	0.00	3.62
7,304.0	3.00	238.72	7,296.5	-115.8	-251.3	-113.4	0.33	-0.24	-4.19
7,399.0	3.31	231.03	7,391.3	-118.8	-255.6	-116.3	0.55	0.33	-8.09
7,494.0	3.32	230.98	7,486.2	-122.3	-259.8	-119.8	0.01	0.01	-0.05
7,588.0	3.19	227.46	7,580.0	-125.7	-263.9	-123.2	0.25	-0.14	-3.74
7,683.0	1.62	227.51	7,674.9	-128.4	-266.8	-125.9	1.65	-1.65	0.05

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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)
7,753.1	1.00	220.11	7,745.0	-129.6	-267.9	-127.0	0.91	-0.88	-10.56
Brushy Canyon									
7,778.0	0.79	214.72	7,769.9	-129.9	-268.2	-127.3	0.91	-0.85	-21.62
7,873.0	0.19	81.68	7,864.9	-130.4	-268.4	-127.8	0.98	-0.63	-140.04
7,967.0	0.45	73.25	7,958.9	-130.3	-267.9	-127.7	0.28	0.28	-8.97
8,062.0	1.09	117.47	8,053.9	-130.6	-266.7	-128.0	0.87	0.67	46.55
8,157.0	1.28	105.63	8,148.9	-131.3	-264.9	-128.7	0.33	0.20	-12.46
8,251.0	1.47	108.50	8,242.9	-131.9	-262.8	-129.4	0.21	0.20	3.05
8,346.0	1.74	69.89	8,337.8	-131.8	-260.2	-129.3	1.15	0.28	-40.64
8,441.0	2.32	75.17	8,432.8	-130.8	-257.0	-128.4	0.64	0.61	5.56
8,536.0	1.30	67.88	8,527.7	-129.9	-254.2	-127.5	1.10	-1.07	-7.67
8,630.0	1.13	66.47	8,621.7	-129.2	-252.3	-126.7	0.18	-0.18	-1.50
8,725.0	1.47	89.85	8,716.7	-128.8	-250.3	-126.4	0.66	0.36	24.61
8,820.0	1.03	48.64	8,811.7	-128.2	-248.4	-125.8	1.02	-0.46	-43.38
8,914.0	1.37	63.40	8,905.6	-127.2	-246.8	-124.8	0.49	0.36	15.70
9,009.0	2.30	97.38	9,000.6	-126.9	-243.9	-124.6	1.47	0.98	35.77
9,053.4	2.09	100.74	9,045.0	-127.2	-242.2	-124.8	0.56	-0.47	7.56
Bone Spring Lime									
9,073.5	2.00	102.48	9,065.0	-127.3	-241.5	-125.0	0.56	-0.46	8.71
Upper Avalon									
9,104.0	1.86	105.47	9,095.5	-127.6	-240.5	-125.2	0.56	-0.45	9.78
9,198.0	1.56	83.86	9,189.5	-127.8	-237.7	-125.5	0.75	-0.32	-22.99
9,293.0	0.62	296.55	9,284.5	-127.5	-236.9	-125.2	2.22	-0.99	-155.06
9,388.0	1.31	260.24	9,379.5	-127.4	-238.4	-125.1	0.94	0.73	-38.22
9,398.5	1.33	258.53	9,390.0	-127.5	-238.7	-125.2	0.42	0.18	-16.20
Middle Avalon									
9,482.0	1.52	246.80	9,473.4	-128.1	-240.6	-125.8	0.42	0.23	-14.06
9,577.0	2.73	222.07	9,568.4	-130.3	-243.3	-127.9	1.57	1.27	-26.03
9,672.0	3.93	227.92	9,663.2	-134.1	-247.3	-131.8	1.31	1.26	6.16
9,766.0	2.87	220.14	9,757.0	-138.1	-251.2	-135.7	1.23	-1.13	-8.28
9,861.0	1.96	215.29	9,852.0	-141.2	-253.6	-138.8	0.98	-0.96	-5.11
9,870.0	1.96	214.45	9,861.0	-141.5	-253.8	-139.0	0.32	0.03	-9.27
Lower Avalon									
9,956.0	2.01	206.66	9,946.9	-144.0	-255.3	-141.6	0.32	0.05	-9.06
10,050.0	1.81	213.26	10,040.8	-146.8	-256.9	-144.3	0.32	-0.21	7.02
10,145.0	0.91	206.40	10,135.8	-148.7	-258.0	-146.2	0.96	-0.95	-7.22
10,240.0	0.29	279.64	10,230.8	-149.3	-258.6	-146.8	0.92	-0.65	77.09
10,334.0	1.35	299.79	10,324.8	-148.7	-259.8	-146.2	1.15	1.13	21.44
10,334.2	1.35	299.79	10,325.0	-148.7	-259.8	-146.2	0.00	0.00	0.00
1st Bone Spring Sand									
10,429.0	2.67	316.00	10,419.7	-146.6	-262.3	-144.1	1.50	1.39	17.10
10,524.0	2.36	322.41	10,514.7	-143.4	-265.0	-140.9	0.44	-0.33	6.75
10,574.4	2.23	324.24	10,565.0	-141.8	-266.2	-139.3	0.30	-0.27	3.64
2nd Bone Spring Carb									
10,619.0	2.11	326.06	10,609.6	-140.4	-267.2	-137.9	0.30	-0.26	4.07

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB @ 3310.5usft (H&P 376)
Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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)
10,713.0	2.15	320.22	10,703.5	-137.7	-269.3	-135.1	0.23	0.04	-6.21
10,808.0	2.08	333.50	10,798.5	-134.7	-271.2	-132.1	0.52	-0.07	13.98
10,903.0	2.46	320.84	10,893.4	-131.6	-273.3	-129.0	0.66	0.40	-13.33
10,934.6	2.30	316.27	10,925.0	-130.6	-274.1	-128.0	0.78	-0.49	-14.44
2nd Bone Spring Sand									
10,997.0	2.05	305.41	10,987.3	-129.1	-275.9	-126.4	0.78	-0.41	-17.42
11,092.0	1.97	341.11	11,082.3	-126.6	-277.8	-123.9	1.30	-0.08	37.58
11,187.0	4.42	321.54	11,177.1	-122.1	-280.6	-119.4	2.79	2.58	-20.60
11,281.0	7.79	308.19	11,270.6	-115.4	-287.9	-112.6	3.87	3.59	-14.20
11,376.0	7.05	299.67	11,364.8	-108.5	-298.0	-105.6	1.39	-0.78	-8.97
11,381.3	6.99	299.26	11,370.0	-108.2	-298.6	-105.3	1.46	-1.11	-7.73
3rd Bone Spring Carb									
11,471.0	6.06	291.17	11,459.1	-103.8	-307.8	-100.8	1.46	-1.04	-9.02
11,566.0	4.72	295.45	11,553.7	-100.3	-316.0	-97.3	1.47	-1.41	4.51
11,660.0	3.22	297.46	11,647.5	-97.4	-321.8	-94.3	1.60	-1.60	2.14
11,730.0	3.01	292.08	11,717.4	-95.8	-325.3	-92.7	0.51	-0.30	-7.69
11,825.0	2.67	281.18	11,812.3	-94.5	-329.7	-91.3	0.67	-0.36	-11.47
11,857.0	2.59	280.69	11,844.2	-94.2	-331.2	-91.0	0.26	-0.25	-1.53
11,951.0	2.28	16.88	11,938.2	-92.0	-332.7	-88.8	3.86	-0.33	102.33
12,045.0	12.81	63.38	12,031.3	-85.5	-322.8	-82.4	12.08	11.20	49.47
12,091.7	18.15	43.24	12,076.3	-77.9	-313.2	-74.9	16.06	11.43	-43.14
FTP @ 12091.7'MD, 100'FSL & 282'FWL									
12,139.0	24.70	32.57	12,120.3	-64.2	-302.8	-61.3	16.06	13.85	-22.55
12,160.9	27.98	28.65	12,140.0	-55.8	-297.9	-52.9	16.89	14.93	-17.84
3rd Bone Spring Sand									
12,234.0	39.40	20.11	12,200.7	-18.8	-281.6	-16.1	16.89	15.64	-11.70
12,315.9	47.86	14.71	12,260.0	35.1	-264.9	37.6	11.27	10.32	-6.59
3rd BS W Sand									
12,328.0	49.12	14.04	12,268.0	43.8	-262.7	46.3	11.27	10.48	-5.55
12,414.7	57.12	6.69	12,320.0	111.9	-250.5	114.3	11.44	9.23	-8.48
Wolfcamp A X Sand									
12,423.0	57.91	6.06	12,324.5	118.9	-249.7	121.3	11.44	9.49	-7.58
12,518.0	61.71	5.12	12,372.2	200.6	-241.7	202.9	4.09	4.00	-0.99
12,534.6	62.53	4.38	12,380.0	215.2	-240.5	217.5	6.35	4.97	-4.46
Wolfcamp A Y Sand									
12,613.0	66.48	1.02	12,413.7	285.9	-237.2	288.2	6.35	5.03	-4.28
12,707.0	70.27	354.66	12,448.4	373.1	-240.6	375.4	7.47	4.03	-6.77
12,776.6	73.58	354.85	12,470.0	439.0	-246.6	441.4	4.76	4.76	0.27
Wolfcamp A Lower									
12,801.0	74.74	354.91	12,476.7	462.4	-248.7	464.8	4.76	4.76	0.26
12,896.0	80.56	356.44	12,497.0	554.9	-255.7	557.3	6.32	6.13	1.61
12,990.0	88.17	358.32	12,506.2	648.3	-260.0	650.7	8.34	8.10	2.00
13,085.0	89.96	0.44	12,507.8	743.3	-261.0	745.7	2.92	1.88	2.23
13,180.0	91.01	0.65	12,506.9	838.2	-260.1	840.7	1.13	1.11	0.22
13,274.0	91.26	0.29	12,505.1	932.2	-259.3	934.7	0.47	0.27	-0.38

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB @ 3310.5usft (H&P 376)
Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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)
13,368.0	91.39	0.31	12,502.9	1,026.2	-258.8	1,028.6	0.14	0.14	0.02
13,463.0	92.24	0.21	12,499.9	1,121.1	-258.4	1,123.6	0.90	0.89	-0.11
13,558.0	89.98	358.96	12,498.1	1,216.1	-259.1	1,218.5	2.72	-2.38	-1.32
13,652.0	87.00	358.51	12,500.5	1,310.0	-261.1	1,312.5	3.21	-3.17	-0.48
13,747.0	86.19	358.05	12,506.2	1,404.8	-264.0	1,407.3	0.98	-0.85	-0.48
13,842.0	86.79	358.12	12,512.0	1,499.6	-267.2	1,502.1	0.64	0.63	0.07
13,937.0	88.78	359.04	12,515.7	1,594.5	-269.5	1,597.0	2.31	2.09	0.97
14,031.0	90.62	358.21	12,516.2	1,688.5	-271.8	1,691.0	2.15	1.96	-0.88
14,125.0	91.48	356.69	12,514.4	1,782.4	-275.9	1,784.9	1.86	0.91	-1.62
14,219.0	91.47	355.79	12,512.0	1,876.1	-282.1	1,878.7	0.96	-0.01	-0.96
14,314.0	91.04	354.85	12,509.9	1,970.8	-289.9	1,973.5	1.09	-0.45	-0.99
14,408.0	91.50	355.42	12,507.9	2,064.4	-297.8	2,067.2	0.78	0.49	0.61
14,502.0	88.50	355.08	12,507.9	2,158.1	-305.6	2,160.9	3.21	-3.19	-0.36
14,597.0	88.73	357.02	12,510.2	2,252.8	-312.2	2,255.7	2.06	0.24	2.04
14,690.0	90.83	357.80	12,510.5	2,345.7	-316.4	2,348.7	2.41	2.26	0.84
14,785.0	92.14	358.60	12,508.0	2,440.6	-319.3	2,443.6	1.62	1.38	0.84
14,879.0	92.55	358.54	12,504.2	2,534.5	-321.7	2,537.5	0.44	0.44	-0.06
14,974.0	92.78	358.69	12,499.8	2,629.4	-324.0	2,632.4	0.29	0.24	0.16
15,068.0	92.01	359.84	12,495.9	2,723.3	-325.2	2,726.3	1.47	-0.82	1.22
15,162.0	91.18	0.04	12,493.2	2,817.3	-325.3	2,820.3	0.91	-0.88	0.21
15,257.0	91.09	359.99	12,491.4	2,912.3	-325.3	2,915.2	0.11	-0.09	-0.05
15,352.0	91.38	359.84	12,489.3	3,007.2	-325.4	3,010.2	0.34	0.31	-0.16
15,447.0	87.12	359.54	12,490.6	3,102.2	-325.9	3,105.2	4.50	-4.48	-0.32
15,541.0	87.58	359.66	12,494.9	3,196.1	-326.6	3,199.1	0.51	0.49	0.13
15,636.0	87.16	359.91	12,499.3	3,291.0	-326.9	3,294.0	0.51	-0.44	0.26
15,731.0	88.40	0.15	12,502.9	3,385.9	-326.9	3,388.9	1.33	1.31	0.25
15,826.0	91.66	0.77	12,502.9	3,480.9	-326.1	3,483.9	3.49	3.43	0.65
15,920.0	91.04	359.77	12,500.7	3,574.9	-325.7	3,577.8	1.25	-0.66	-1.06
16,015.0	89.43	358.52	12,500.3	3,669.9	-327.1	3,672.8	2.15	-1.69	-1.32
16,110.0	90.62	0.81	12,500.2	3,764.9	-327.6	3,767.8	2.72	1.25	2.41
16,205.0	89.92	0.31	12,499.8	3,859.8	-326.7	3,862.8	0.91	-0.74	-0.53
16,300.0	92.08	1.47	12,498.1	3,954.8	-325.2	3,957.8	2.58	2.27	1.22
16,395.0	92.32	1.33	12,494.5	4,049.7	-322.9	4,052.6	0.29	0.25	-0.15
16,490.0	92.37	1.21	12,490.6	4,144.6	-320.8	4,147.5	0.14	0.05	-0.13
16,585.0	92.85	1.17	12,486.3	4,239.5	-318.8	4,242.4	0.51	0.51	-0.04
16,607.0	93.41	1.47	12,485.1	4,261.5	-318.3	4,264.3	2.89	2.55	1.36
16,701.0	93.17	0.54	12,479.7	4,355.3	-316.7	4,358.1	1.02	-0.26	-0.99
16,796.0	91.30	0.48	12,476.0	4,450.2	-315.8	4,453.0	1.97	-1.97	-0.06
16,891.0	91.69	0.28	12,473.5	4,545.2	-315.2	4,548.0	0.46	0.41	-0.21
16,985.0	88.24	357.10	12,473.6	4,639.1	-317.4	4,641.9	4.99	-3.67	-3.38
17,080.0	88.27	356.93	12,476.4	4,733.9	-322.3	4,736.8	0.18	0.03	-0.18
17,174.0	90.10	357.95	12,477.8	4,827.8	-326.5	4,830.7	2.23	1.95	1.09
17,269.0	89.43	357.63	12,478.2	4,922.8	-330.2	4,925.7	0.78	-0.71	-0.34

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Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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)
17,363.0	89.07	355.74	12,479.4	5,016.6	-335.6	5,019.6	2.05	-0.38	-2.01
17,458.0	92.07	358.74	12,478.5	5,111.5	-340.2	5,114.5	4.47	3.16	3.16
17,552.0	93.06	359.76	12,474.3	5,205.4	-341.4	5,208.4	1.51	1.05	1.09
17,647.0	90.76	357.82	12,471.1	5,300.3	-343.4	5,303.3	3.17	-2.42	-2.04
17,741.0	88.82	355.04	12,471.4	5,394.1	-349.3	5,397.2	3.61	-2.06	-2.96
17,836.0	90.83	358.19	12,471.7	5,488.9	-354.9	5,492.0	3.93	2.12	3.32
17,930.0	91.69	359.82	12,469.7	5,582.8	-356.5	5,586.0	1.96	0.91	1.73
18,024.0	90.73	357.95	12,467.7	5,676.8	-358.3	5,680.0	2.24	-1.02	-1.99
18,119.0	92.39	0.62	12,465.1	5,771.7	-359.5	5,774.9	3.31	1.75	2.81
18,213.0	91.83	359.73	12,461.6	5,865.7	-359.2	5,868.9	1.12	-0.60	-0.95
18,308.0	91.55	359.33	12,458.8	5,960.6	-360.0	5,963.8	0.51	-0.29	-0.42
18,402.0	89.50	359.93	12,458.0	6,054.6	-360.6	6,057.8	2.27	-2.18	0.64
18,497.0	91.70	3.08	12,457.0	6,149.6	-358.1	6,152.7	4.04	2.32	3.32
18,591.0	90.66	3.42	12,455.0	6,243.4	-352.8	6,246.5	1.16	-1.11	0.36
18,685.0	88.85	2.20	12,455.4	6,337.3	-348.2	6,340.3	2.32	-1.93	-1.30
18,780.0	88.54	1.37	12,457.6	6,432.2	-345.2	6,435.2	0.93	-0.33	-0.87
18,874.0	86.88	358.40	12,461.4	6,526.1	-345.4	6,529.1	3.62	-1.77	-3.16
18,969.0	88.21	359.98	12,465.4	6,621.0	-346.8	6,624.0	2.17	1.40	1.66
19,064.0	92.30	1.81	12,465.0	6,716.0	-345.3	6,719.0	4.72	4.31	1.93
19,158.0	91.81	3.03	12,461.6	6,809.8	-341.3	6,812.8	1.40	-0.52	1.30
19,253.0	94.01	5.87	12,456.8	6,904.4	-333.9	6,907.3	3.78	2.32	2.99
19,347.0	93.20	6.00	12,450.9	6,997.7	-324.2	7,000.5	0.87	-0.86	0.14
19,442.0	88.52	1.50	12,449.5	7,092.5	-318.0	7,095.2	6.83	-4.93	-4.74
19,536.0	88.68	358.75	12,451.8	7,186.4	-317.8	7,189.1	2.93	0.17	-2.93
19,631.0	90.05	355.80	12,452.8	7,281.3	-322.4	7,284.1	3.42	1.44	-3.11
19,725.0	93.35	353.89	12,450.0	7,374.9	-330.8	7,377.7	4.06	3.51	-2.03
19,819.0	93.93	356.16	12,444.1	7,468.3	-338.9	7,471.2	2.49	0.62	2.41
19,914.0	95.10	359.53	12,436.6	7,562.9	-342.5	7,565.9	3.74	1.23	3.55
20,007.0	94.06	0.23	12,429.2	7,655.6	-342.7	7,658.6	1.35	-1.12	0.75
20,101.0	90.98	1.75	12,425.0	7,749.5	-341.1	7,752.4	3.65	-3.28	1.62
20,196.0	88.65	0.49	12,425.3	7,844.5	-339.2	7,847.4	2.79	-2.45	-1.33
20,290.0	87.27	359.40	12,428.7	7,938.4	-339.3	7,941.3	1.87	-1.47	-1.16
20,385.0	88.34	358.17	12,432.3	8,033.3	-341.3	8,036.2	1.72	1.13	-1.29
20,478.0	90.06	357.74	12,433.6	8,126.3	-344.6	8,129.2	1.91	1.85	-0.46
20,573.0	90.08	357.39	12,433.5	8,221.2	-348.7	8,224.1	0.37	0.02	-0.37
20,667.0	90.79	357.60	12,432.8	8,315.1	-352.8	8,318.1	0.79	0.76	0.22
20,762.0	90.54	359.75	12,431.7	8,410.0	-355.0	8,413.1	2.28	-0.26	2.26
20,856.0	89.89	358.88	12,431.3	8,504.0	-356.1	8,507.1	1.16	-0.69	-0.93
20,950.0	92.28	358.43	12,429.5	8,598.0	-358.3	8,601.0	2.59	2.54	-0.48
21,045.0	91.20	357.00	12,426.7	8,692.9	-362.1	8,695.9	1.89	-1.14	-1.51
21,139.0	88.87	356.57	12,426.6	8,786.7	-367.4	8,789.8	2.52	-2.48	-0.46
21,234.0	90.06	358.16	12,427.5	8,881.6	-371.7	8,884.7	2.09	1.25	1.67
21,328.0	92.95	358.82	12,425.0	8,975.5	-374.2	8,978.7	3.15	3.07	0.70

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB @ 3310.5usft (H&P 376)
Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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)
21,422.0	92.67	359.04	12,420.4	9,069.4	-375.9	9,072.6	0.38	-0.30	0.23
21,517.0	92.02	358.30	12,416.5	9,164.3	-378.2	9,167.5	1.04	-0.68	-0.78
21,611.0	92.89	357.64	12,412.5	9,258.1	-381.5	9,261.4	1.16	0.93	-0.70
21,705.0	91.33	358.26	12,409.0	9,352.0	-384.8	9,355.3	1.79	-1.66	0.66
21,800.0	87.13	356.14	12,410.3	9,446.9	-389.5	9,450.2	4.95	-4.42	-2.23
21,894.0	89.03	357.56	12,413.5	9,540.7	-394.6	9,544.0	2.52	2.02	1.51
21,988.0	89.69	359.49	12,414.5	9,634.6	-397.1	9,638.0	2.17	0.70	2.05
22,082.0	89.36	0.54	12,415.3	9,728.6	-397.0	9,732.0	1.17	-0.35	1.12
22,177.0	88.81	1.59	12,416.8	9,823.6	-395.3	9,826.9	1.25	-0.58	1.11
22,271.0	90.91	1.61	12,417.0	9,917.5	-392.6	9,920.8	2.23	2.23	0.02
22,366.0	90.35	1.67	12,416.0	10,012.5	-389.9	10,015.8	0.59	-0.59	0.06
22,460.0	90.03	1.88	12,415.7	10,106.4	-387.0	10,109.7	0.41	-0.34	0.22
22,554.0	90.93	2.52	12,414.9	10,200.4	-383.4	10,203.6	1.17	0.96	0.68
22,631.0	91.76	2.30	12,413.1	10,277.3	-380.2	10,280.5	1.12	1.08	-0.29
LAST SVY									
22,636.2	91.76	2.30	12,412.9	10,282.5	-380.0	10,285.6	0.00	0.00	0.00
LTP @ 22636.2'MD, 100'FNL & 319.8'FWL									
22,703.0	91.76	2.30	12,410.9	10,349.2	-377.3	10,352.3	0.00	0.00	0.00
Projection to TD @ 22703'MD, 33.3'FNL & 323.1'FWL									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
LTP (Gipple Fed Com	0.00	0.00	12,402.0	10,283.0	-368.0	436,193.00	840,219.00	32° 11' 43.730 N	103° 22' 1.656 W
- actual wellpath misses target center by 16.2usft at 22636.2usft MD (12412.9 TVD, 10282.5 N, -380.0 E)									
- Point									
PBHL (Gipple Fed Co	-0.70	359.45	12,402.0	10,378.0	-369.0	436,288.00	840,218.00	32° 11' 44.670 N	103° 22' 1.658 W
- actual wellpath misses target center by 31.3usft at 22703.0usft MD (12410.9 TVD, 10349.2 N, -377.3 E)									
- Rectangle (sides W100.0 H6,381.5 D30.0)									
T1 (Gipple Fed Com #	-0.50	359.45	12,480.0	3,997.2	-307.6	429,907.20	840,279.36	32° 10' 41.528 N	103° 22' 1.611 W
- actual wellpath misses target center by 23.4usft at 16343.5usft MD (12496.5 TVD, 3998.2 N, -324.1 E)									
- Rectangle (sides W100.0 H4,075.0 D30.0)									
FTP (Gipple Fed Com	0.00	0.00	12,511.0	-77.0	-267.0	425,833.00	840,320.00	32° 10' 1.212 N	103° 22' 1.564 W
- actual wellpath misses target center by 265.2usft at 12378.4usft MD (12299.4 TVD, 82.4 N, -254.7 E)									
- Point									

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well Gipple Fed Com #214H
Project:	Lea County, NM (NAD 83 NME)	**TVD Reference:**	KB @ 3310.5usft (H&P 376)
Site:	(Gipple) Sec-33_T-24-S_R-35-E	**MD Reference:**	KB @ 3310.5usft (H&P 376)
Well:	Gipple Fed Com #214H	**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 (°)
470.1	470.0	Rustler Anhydrite			
895.3	895.0	Top Salt			
4,813.6	4,810.0	Base Salt			
5,273.7	5,270.0	Delaware Mountain Gp			
5,278.7	5,275.0	Lamar			
5,303.8	5,300.0	Bell Canyon			
5,328.8	5,325.0	Ramsey Sand			
6,269.9	6,265.0	Cherry Canyon			
7,753.1	7,745.0	Brushy Canyon			
9,053.4	9,045.0	Bone Spring Lime			
9,073.5	9,065.0	Upper Avalon			
9,398.5	9,390.0	Middle Avalon			
9,870.0	9,861.0	Lower Avalon			
10,334.2	10,325.0	1st Bone Spring Sand			
10,574.4	10,565.0	2nd Bone Spring Carb			
10,934.6	10,925.0	2nd Bone Spring Sand			
11,381.3	11,370.0	3rd Bone Spring Carb			
12,160.9	12,140.0	3rd Bone Spring Sand			
12,315.9	12,260.0	3rd BS W Sand			
12,414.7	12,320.0	Wolfcamp A X Sand			
12,534.6	12,380.0	Wolfcamp A Y Sand			
12,776.6	12,470.0	Wolfcamp A Lower			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
12,091.7	12,076.3	-77.9	-313.2	FTP @ 12091.7'MD, 100'FSL & 282'FWL
22,631.0	12,413.1	10,277.3	-380.2	LAST SVY
22,636.2	12,412.9	10,282.5	-380.0	LTP @ 22636.2'MD, 100'FNL & 319.8'FWL
22,703.0	12,410.9	10,349.2	-377.3	Projection to TD @ 22703'MD, 33.3'FNL & 323.1'FWL

Checked By: _____ Approved By: _____ Date: _____