

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 523 PARK POINT DRIVE, SUITE 200 GOLDEN, CO 80401		² OGRID Number 372043	
		³ Reason for Filing Code/ Effective Date NW	
⁴ API Number 30 - 0 25-46976	⁵ Pool Name JAL; Wolfcamp, West		⁶ Pool Code 33813
⁷ Property Code 327300	⁸ Property Name Black Marlin Fed Com		⁹ Well Number 204H

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
B	18	25-S	36-E	-	185'	NORTH	1381'	EAST	LEA

¹¹ Bottom Hole Location

SL

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	25-S	36-E	-	33'	SOUTH	719'	EAST	LEA
¹² Lse Code F	¹³ Producing Method Code F		¹⁴ Gas Connection Date 11/16/2020		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
371960	LUCID ENERGY GROUP 3100 MCKINNON ST #800 DALLAS, TX 75201	G

IV. Well Completion Data

²¹ Spud Date 8/16/2020	²² Ready Date 11/13/2020	²³ TD 21953'	²⁴ PBTD 21895'	²⁵ Perforations 11843' - 21809'	²⁶ DHC, MC
²⁷ Hole Size		²⁸ Casing & Tubing Size	²⁹ Depth Set		³⁰ Sacks Cement
17.5"		13.375"	1376'		1165 sks
12.25"		9.625"	5312'		1852 sks
8.75"		7.625"	11050'		541 sks
6.75"		5.5" / 5"	10898' / 21938'		1357 sks

V. Well Test Data

³¹ Date New Oil 11/16/2020	³² Gas Delivery Date 11/16/2020	³³ Test Date 11/28/2020	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1504
³⁷ Choke Size 55/64	³⁸ Oil 2111	³⁹ Water 4806	⁴⁰ Gas 3366		⁴¹ Test Method Flowing
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: Ramsey			OIL CONSERVATION DIVISION		
Printed name: Bill Ramsey			Approved by: PATRICIA MARTINEZ		
Title: Regulatory Analyst			Title: LM II		
E-mail Address: bramsey@taprk.com			Approval Date: 2/15/2021		
Date: 12/22/2020		Phone: 720-360-4028	Request for NMOCD extension of time to file BLM-Approved form 3160-4. File 3160-4 within 10 days to NMOCD after BLM approval.		

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: (505) 748-1283 Fax: (505) 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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-46976	² Pool Code 33813	³ Pool Name JAL; WOLFCAMP, WEST
⁴ Property Code 327300	⁵ Property Name BLACK MARLIN FED COM	⁶ Well Number 204H
⁷ OGRID No. #372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3180'

¹⁰Surface Location

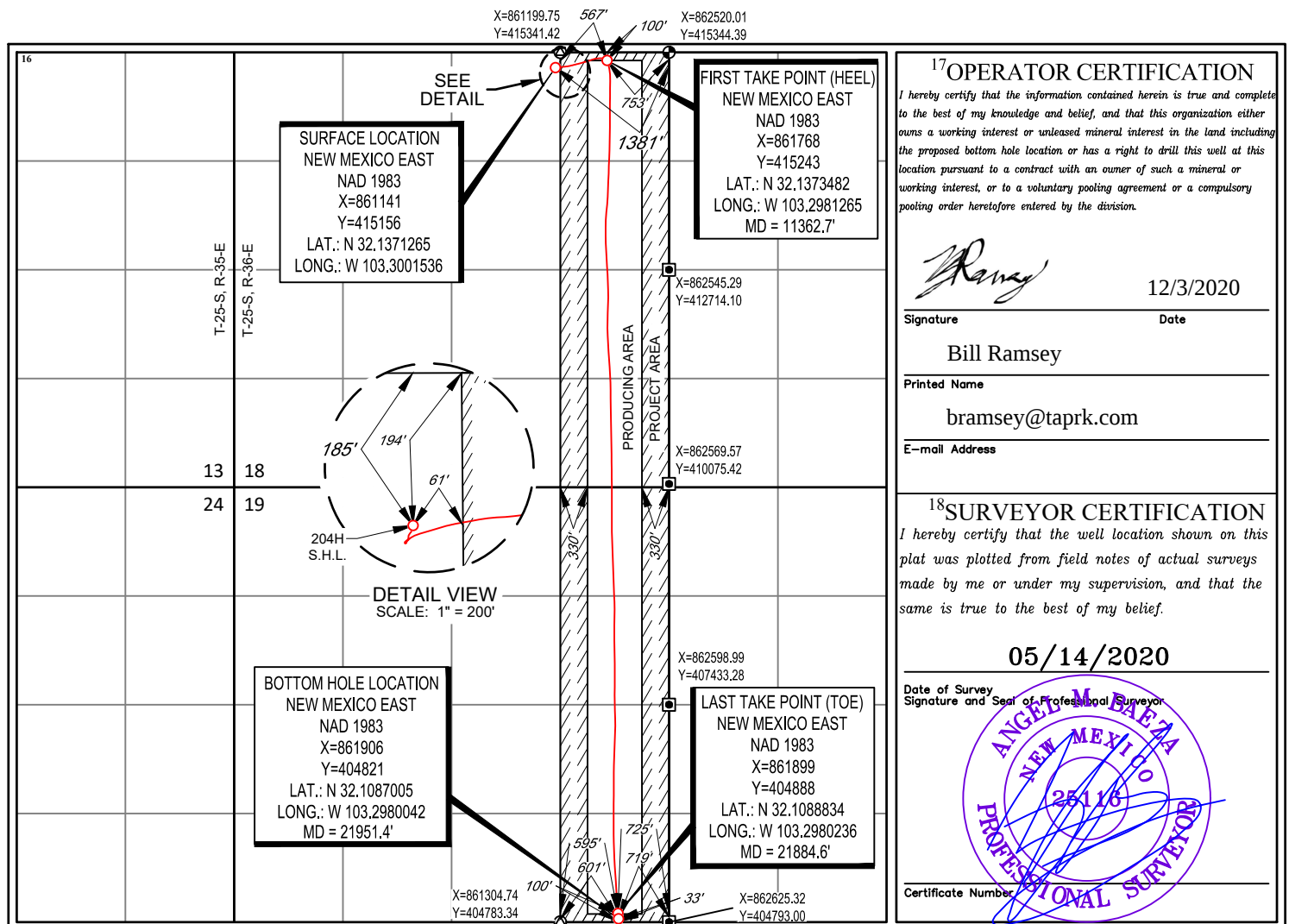
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	18	25-S	36-E	-	185'	NORTH	1381'	EAST	LEA

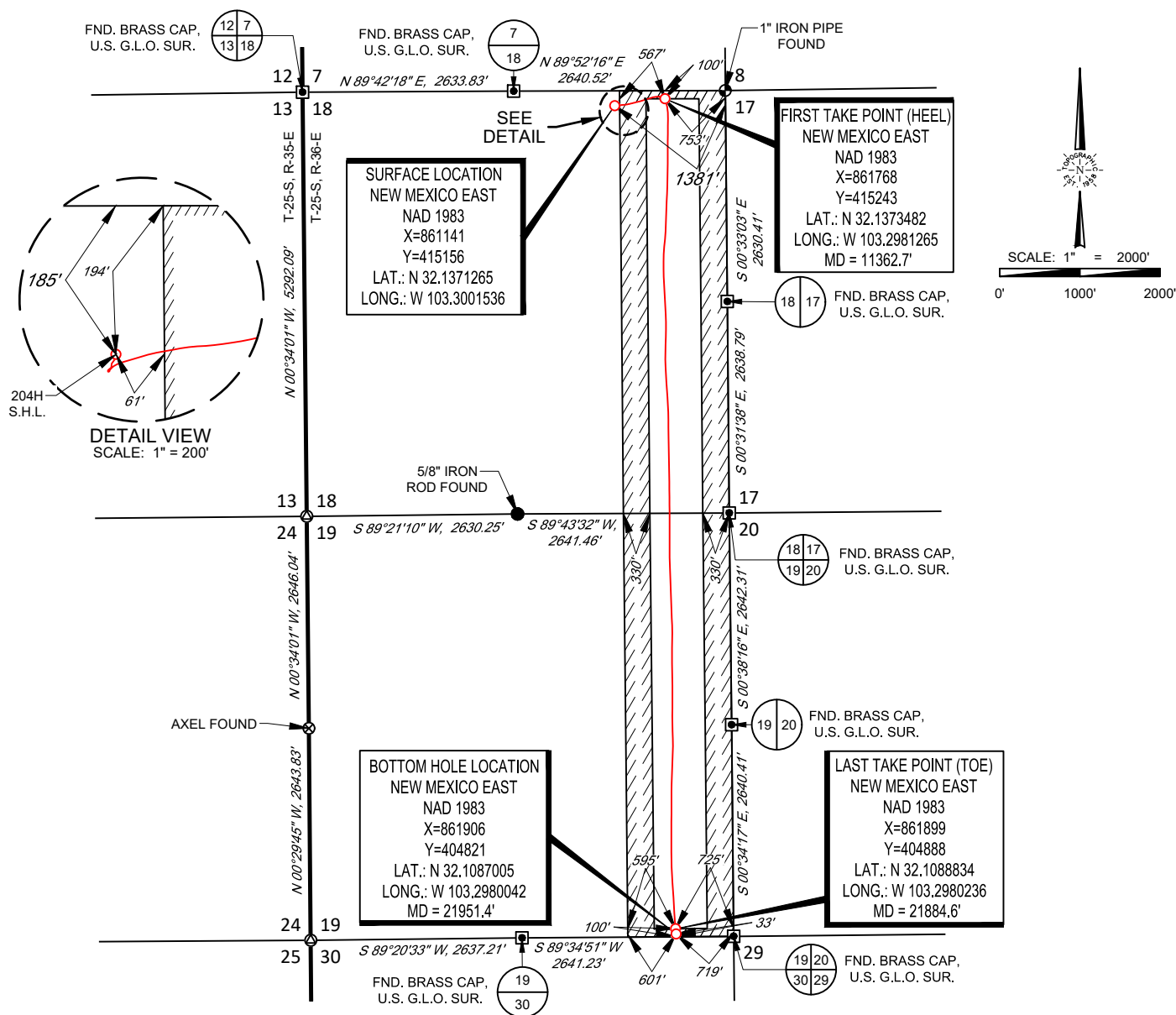
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	19	25-S	36-E	-	33'	SOUTH	719'	EAST	LEA

¹² Dedicated Acres 320.00	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.



SECTION 18, TOWNSHIP 25-S, RANGE 36-E, N.M.P.M.
LEA COUNTY, NEW MEXICO

LEASE NAME & WELL NO.: BLACK MARLIN FED COM 204H
 SECTION 18 TWP 25-S RGE 36-E SURVEY N.M.P.M.
 COUNTY LEA STATE NM ELEVATION 3180'
 DESCRIPTION 185' FNL & 1381' FEL

TAP
ROCK



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

**INTERNAL
PRE-COMPLETION
PLAT**

BLACK MARLIN FED COM 204H PRE-COMPLETION	REVISION:		NOTES:
	INT	DATE	
DATE: 09/09/2020			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.
FILE: C_BLACK_MARLIN_FED_COM_204H			
DRAWN BY: GJU			
SHEET: 1 OF 1			

S:\SURVEY\TAPROCK\BLACK_MARLIN\FINAL_PRODUCTS\BLACK_MARLIN_FED_COM_204H.DWG 9/10/2020 10:36:03 AM abaeza



Operator: Tap Rock Resources, LLC.
Well Name: Black Marlin Fed Com #204H
County: Lea
State: New Mexico
Rig Name: H&P 376
Job Number: 30-025-46976

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: 176' MD – 21,888' MD
Projection to Bit: 21,953' MD
Dates Performed: 08/16/2020 – 09/03/2020
Type of Survey: MWD

Sincerely,

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

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists





Survey Report

Service Company: Intrepid Directional Drilling Specialists

Location: Sec-18_T-25-S_R-36-E

Well: Black Marlin Fed Com #204H

Rig: H&P 376

API or UWI: 30-025-46976

Job Number: ID2649

State: New Mexico

Operating Company: Tap Rock Resources, LLC.

County: Lea

Magnetic Declination: 5.91

Country: United States

Proposed Azimuth: 179.43

Comment

North Reference: GRID

Latitude: 32.000008

Longitude: -103.000018

Tie-In Data

MD	Inclination	Azimuth	TVD	NS	EW
0.00	0.00	0.00	0.00	0.00	0.00

Survey Data

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
176.00	0.70	165.08	176.00	-1.04	0.28	165.08	1.08	1.04	0.40
237.00	0.79	179.49	236.99	-1.82	0.38	168.31	1.86	1.82	0.34
328.00	1.10	186.53	327.98	-3.31	0.28	175.12	3.33	3.32	0.36
421.00	1.41	216.58	420.96	-5.12	-0.50	185.58	5.14	5.12	0.77
513.00	1.54	216.50	512.93	-7.02	-1.91	195.22	7.28	7.00	0.14
605.00	1.93	216.14	604.88	-9.27	-3.56	201.01	9.93	9.23	0.42
700.00	1.10	214.30	699.85	-11.31	-5.02	203.92	12.38	11.26	0.88
794.00	0.44	169.91	793.84	-12.41	-5.46	203.75	13.56	12.36	0.90
889.00	0.75	186.17	888.84	-13.39	-5.47	202.20	14.46	13.34	0.37
984.00	0.75	185.65	983.83	-14.63	-5.59	200.92	15.66	14.57	0.01
1079.00	0.84	192.59	1078.82	-15.93	-5.81	200.03	16.95	15.87	0.14
1173.00	0.66	220.98	1172.81	-17.01	-6.31	200.36	18.14	16.94	0.43
1268.00	1.10	242.60	1267.80	-17.84	-7.48	202.75	19.34	17.77	0.57
1306.00	1.32	237.06	1305.79	-18.25	-8.17	204.12	19.99	18.16	0.66
1438.00	0.92	209.38	1437.77	-20.00	-9.97	206.49	22.34	19.90	0.50
1533.00	0.84	151.37	1532.76	-21.27	-10.01	205.19	23.51	21.17	0.90

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
1629.00	0.35	92.31	1628.75	-21.90	-9.38	203.18	23.82	21.81	0.76
1724.00	0.26	38.08	1723.75	-21.74	-8.95	202.38	23.52	21.65	0.30
1819.00	0.13	49.94	1818.75	-21.50	-8.74	202.12	23.21	21.42	0.14
1914.00	0.31	70.51	1913.75	-21.35	-8.41	201.51	22.95	21.26	0.20
2009.00	0.13	39.84	2008.75	-21.18	-8.10	200.93	22.68	21.10	0.22
2105.00	0.35	12.85	2104.75	-20.81	-7.97	200.95	22.28	20.73	0.25
2199.00	0.26	3.54	2198.75	-20.32	-7.89	201.22	21.80	20.24	0.11
2294.00	0.44	16.46	2293.75	-19.75	-7.77	201.48	21.23	19.68	0.21
2388.00	0.57	46.78	2387.74	-19.09	-7.33	201.01	20.45	19.01	0.31
2483.00	0.75	44.67	2482.74	-18.32	-6.55	199.67	19.46	18.26	0.19
2578.00	1.67	43.18	2577.71	-16.87	-5.17	197.02	17.64	16.82	0.97
2672.00	2.42	53.72	2671.65	-14.70	-2.63	190.14	14.93	14.67	0.89
2766.00	3.96	64.80	2765.51	-12.14	1.91	171.06	12.29	12.16	1.76
2860.00	5.27	74.64	2859.20	-9.61	9.01	136.86	13.18	9.70	1.62
2955.00	6.33	73.32	2953.71	-6.96	18.23	110.88	19.51	7.14	1.12
3050.00	7.21	72.79	3048.05	-3.69	28.94	97.26	29.18	3.98	0.93
3144.00	7.03	75.34	3141.32	-0.49	40.14	90.70	40.15	0.89	0.39
3239.00	6.55	78.07	3235.66	2.10	51.07	87.64	51.11	-1.60	0.61
3333.00	6.07	80.53	3329.09	4.03	61.22	86.23	61.35	-3.42	0.59
3428.00	5.80	79.91	3423.58	5.70	70.90	85.41	71.13	-4.99	0.29
3523.00	6.11	79.83	3518.07	7.43	80.60	84.73	80.94	-6.63	0.33
3618.00	6.55	82.99	3612.49	8.98	90.95	84.36	91.40	-8.08	0.59
3712.00	6.46	87.21	3705.88	9.90	101.56	84.43	102.04	-8.89	0.52
3806.00	6.29	85.54	3799.30	10.55	111.97	84.62	112.47	-9.44	0.27
3901.00	6.29	83.61	3893.73	11.54	122.33	84.61	122.88	-10.32	0.22
3996.00	7.03	82.29	3988.09	12.90	133.27	84.47	133.89	-11.57	0.80
4090.00	7.03	82.37	4081.38	14.43	144.67	84.30	145.39	-12.99	0.01
4184.00	7.56	79.65	4174.62	16.31	156.45	84.05	157.30	-14.75	0.67
4279.00	8.04	77.01	4268.74	18.92	169.07	83.61	170.13	-17.24	0.63
4373.00	7.65	76.75	4361.86	21.84	181.57	83.14	182.88	-20.03	0.42
4469.00	7.03	76.75	4457.07	24.65	193.51	82.74	195.07	-22.72	0.65
4564.00	7.08	76.49	4551.36	27.35	204.86	82.40	206.68	-25.31	0.06
4659.00	6.99	75.08	4645.64	30.20	216.14	82.05	218.24	-28.05	0.20
4754.00	7.03	76.05	4739.93	33.09	227.36	81.72	229.76	-30.83	0.13
4850.00	6.90	75.52	4835.22	35.95	238.65	81.43	241.34	-33.57	0.15
4945.00	6.77	74.99	4929.55	38.83	249.58	81.16	252.59	-36.34	0.15
5040.00	6.81	76.13	5023.88	41.63	260.46	80.92	263.77	-39.03	0.15

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
5135.00	6.64	75.96	5118.23	44.31	271.26	80.72	274.85	-41.61	0.18
5230.00	6.42	76.40	5212.61	46.89	281.75	80.55	285.62	-44.09	0.24
5262.00	6.29	74.99	5244.41	47.77	285.18	80.49	289.15	-44.93	0.63
5413.00	5.63	76.49	5394.60	51.64	300.37	80.25	304.78	-48.65	0.45
5509.00	5.93	76.57	5490.11	53.89	309.77	80.13	314.43	-50.81	0.31
5604.00	6.99	73.15	5584.50	56.71	320.08	79.95	325.06	-53.52	1.19
5698.00	7.30	72.88	5677.77	60.12	331.26	79.71	336.67	-56.82	0.33
5793.00	6.64	72.97	5772.07	63.51	342.28	79.49	348.12	-60.10	0.69
5887.00	6.77	73.59	5865.43	66.67	352.79	79.30	359.03	-63.15	0.16
5983.00	7.08	75.96	5960.73	69.70	363.96	79.16	370.57	-66.07	0.44
6078.00	6.59	74.73	6055.05	72.55	374.90	79.05	381.85	-68.82	0.54
6173.00	7.08	75.08	6149.38	75.50	385.81	78.93	393.13	-71.66	0.52
6268.00	8.09	71.56	6243.55	79.12	397.81	78.75	405.60	-75.16	1.17
6362.00	8.09	71.04	6336.61	83.36	410.34	78.52	418.72	-79.27	0.08
6456.00	7.74	70.16	6429.71	87.66	422.55	78.28	431.55	-83.45	0.39
6551.00	7.25	71.30	6523.90	91.75	434.25	78.07	443.83	-87.43	0.54
6645.00	6.73	71.39	6617.20	95.41	445.09	77.90	455.20	-90.98	0.55
6740.00	6.86	70.77	6711.54	99.06	455.72	77.74	466.36	-94.52	0.16
6834.00	6.90	76.66	6804.86	102.21	466.51	77.64	477.58	-97.56	0.75
6929.00	6.42	73.32	6899.22	105.05	477.15	77.58	488.58	-100.30	0.65
7023.00	6.77	79.83	6992.60	107.54	487.64	77.56	499.36	-102.68	0.88
7118.00	6.37	82.99	7086.98	109.17	498.38	77.64	510.20	-104.20	0.57
7211.00	6.68	83.17	7179.37	110.44	508.88	77.76	520.72	-105.37	0.33
7305.00	6.64	83.87	7272.74	111.67	519.71	77.87	531.57	-106.50	0.10
7399.00	6.95	86.15	7366.08	112.63	530.79	78.02	542.60	-107.35	0.44
7494.00	6.99	88.70	7460.38	113.15	542.30	78.21	553.98	-107.75	0.33
7588.00	6.33	90.72	7553.74	113.22	553.20	78.43	564.67	-107.71	0.74
7682.00	5.23	92.57	7647.26	112.96	562.66	78.65	573.89	-107.35	1.19
7773.00	5.45	84.57	7737.87	113.18	571.11	78.79	582.21	-107.49	0.85
7867.00	5.67	77.10	7831.43	114.64	580.08	78.82	591.30	-108.86	0.80
7962.00	3.96	74.03	7926.09	116.59	587.81	78.78	599.26	-110.74	1.82
8056.00	3.82	74.99	8019.87	118.29	593.95	78.74	605.62	-112.38	0.16
8152.00	3.21	74.82	8115.69	119.83	599.63	78.70	611.49	-113.86	0.64
8244.00	2.64	68.66	8207.57	121.27	604.09	78.65	616.15	-115.26	0.71
8339.00	2.81	74.90	8302.46	122.67	608.38	78.60	620.62	-116.62	0.36
8433.00	1.01	90.20	8396.41	123.27	611.43	78.60	623.73	-117.18	1.97
8527.00	1.85	99.51	8490.38	123.02	613.76	78.67	625.96	-116.91	0.92

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
8620.00	1.93	93.80	8583.33	122.67	616.80	78.75	628.88	-116.52	0.22
8715.00	1.67	78.42	8678.28	122.84	619.75	78.79	631.81	-116.67	0.57
8809.00	1.93	95.21	8772.24	122.97	622.67	78.83	634.70	-116.77	0.62
8903.00	1.14	135.29	8866.20	122.16	624.90	78.94	636.73	-115.94	1.37
8997.00	1.10	129.31	8960.19	120.93	626.26	79.07	637.83	-114.69	0.13
9090.00	0.97	121.75	9053.17	119.95	627.62	79.18	638.98	-113.70	0.20
9185.00	0.92	116.92	9148.16	119.18	628.98	79.27	640.18	-112.91	0.10
9279.00	0.79	125.53	9242.15	118.46	630.19	79.35	641.22	-112.18	0.19
9374.00	0.88	321.44	9337.14	118.65	630.26	79.34	641.33	-112.37	1.74
9469.00	1.41	297.97	9432.12	119.77	628.78	79.22	640.08	-113.51	0.73
9563.00	1.01	298.15	9526.10	120.70	627.02	79.10	638.54	-114.46	0.43
9657.00	0.88	302.72	9620.09	121.48	625.69	79.01	637.37	-115.25	0.16
9752.00	1.05	302.98	9715.08	122.35	624.34	78.91	636.22	-116.13	0.18
9847.00	1.01	298.15	9810.06	123.22	622.87	78.81	634.95	-117.02	0.10
9941.00	0.44	270.20	9904.05	123.61	621.78	78.76	633.95	-117.42	0.70
10036.00	0.57	260.97	9999.05	123.54	620.95	78.75	633.12	-117.35	0.16
10130.00	0.44	252.53	10093.05	123.36	620.15	78.75	632.30	-117.18	0.16
10225.00	0.09	109.09	10188.05	123.22	619.87	78.76	632.00	-117.05	0.54
10319.00	0.79	102.68	10282.04	123.06	620.57	78.78	632.65	-116.88	0.75
10413.00	1.63	120.96	10376.02	122.23	622.35	78.89	634.24	-116.03	0.97
10507.00	0.62	94.68	10470.00	121.50	624.00	78.98	635.72	-115.28	1.18
10601.00	0.44	80.09	10564.00	121.52	624.86	79.00	636.57	-115.29	0.24
10695.00	0.44	49.15	10658.00	121.82	625.49	78.98	637.24	-115.59	0.25
10789.00	1.14	264.92	10751.99	121.97	624.83	78.95	636.63	-115.75	1.62
10883.00	0.75	257.63	10845.98	121.75	623.30	78.95	635.08	-115.55	0.43
10977.00	1.05	215.35	10939.97	120.92	622.20	79.00	633.84	-114.72	0.75
11005.00	1.01	216.23	10967.96	120.51	621.91	79.03	633.48	-114.32	0.15
11101.00	1.19	262.20	11063.95	119.69	620.42	79.08	631.86	-113.52	0.91
11195.00	3.65	171.32	11157.88	116.60	619.91	79.35	630.78	-110.43	4.10
11289.00	10.81	167.54	11251.07	105.02	622.26	80.42	631.06	-98.83	7.63
11383.00	21.45	165.43	11341.24	79.71	628.51	82.77	633.54	-73.45	11.33
11478.00	32.70	164.03	11425.69	38.09	639.97	86.59	641.10	-31.72	11.86
11573.00	39.34	166.40	11502.49	-15.91	654.13	91.39	654.32	22.42	7.14
11668.00	53.67	177.12	11567.81	-83.85	663.19	97.21	668.47	90.45	17.12
11764.00	64.18	181.87	11617.31	-165.92	663.73	104.04	684.15	172.52	11.73
11858.00	72.84	179.93	11651.72	-253.29	662.40	110.93	709.18	259.87	9.41
11955.00	85.41	180.37	11669.98	-348.36	662.14	117.75	748.19	354.93	12.97

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
12049.00	87.82	180.99	11675.53	-442.18	661.03	123.78	795.29	448.73	2.65
12143.00	88.53	179.93	11678.52	-536.13	660.28	129.08	850.53	542.67	1.36
12238.00	89.05	179.76	11680.53	-631.10	660.53	133.69	913.56	637.64	0.58
12332.00	89.93	180.72	11681.37	-725.10	660.14	137.68	980.59	731.63	1.39
12425.00	91.69	180.81	11680.05	-818.08	658.90	141.15	1050.43	824.59	1.89
12519.00	92.35	181.08	11676.74	-912.00	657.35	144.22	1124.21	918.50	0.76
12613.00	92.18	181.69	11673.02	-1005.90	655.08	146.93	1200.40	1012.37	0.67
12707.00	93.01	182.48	11668.77	-1099.74	651.66	149.35	1278.32	1106.17	1.22
12801.00	90.68	181.87	11665.74	-1193.62	648.10	151.50	1358.22	1200.01	2.56
12895.00	90.55	182.04	11664.73	-1287.56	644.89	153.40	1440.03	1293.91	0.23
12989.00	87.96	182.39	11665.95	-1381.47	641.26	155.10	1523.05	1387.78	2.78
13084.00	87.30	182.31	11669.88	-1476.31	637.37	156.65	1608.02	1482.58	0.70
13178.00	89.23	182.22	11672.73	-1570.19	633.65	158.02	1693.23	1576.42	2.06
13273.00	91.47	185.65	11672.15	-1664.95	627.13	159.36	1779.14	1671.10	4.31
13366.00	90.73	186.00	11670.36	-1757.45	617.70	160.63	1862.84	1763.51	0.88
13460.00	88.75	182.66	11670.79	-1851.16	610.60	161.74	1949.26	1857.14	4.13
13554.00	88.84	180.29	11672.77	-1945.10	608.18	162.64	2037.97	1951.06	2.52
13648.00	88.62	178.97	11674.85	-2039.07	608.79	163.38	2128.02	2045.03	1.42
13742.00	88.92	178.18	11676.87	-2133.02	611.13	164.01	2218.84	2139.00	0.90
13835.00	92.62	176.77	11675.62	-2225.91	615.22	164.55	2309.36	2231.92	4.26
13929.00	92.79	176.95	11671.18	-2319.66	620.37	165.03	2401.18	2325.72	0.26
14024.00	91.87	176.24	11667.32	-2414.41	626.00	165.46	2494.25	2420.52	1.22
14118.00	92.79	177.12	11663.50	-2508.17	631.44	165.87	2586.44	2514.33	1.35
14212.00	93.05	177.65	11658.71	-2601.95	635.73	166.27	2678.49	2608.15	0.63
14307.00	90.55	178.44	11655.73	-2696.84	638.96	166.67	2771.51	2703.07	2.76
14401.00	91.65	180.55	11653.92	-2790.82	639.79	167.09	2863.21	2797.04	2.53
14495.00	90.46	181.95	11652.19	-2884.77	637.74	167.53	2954.43	2890.98	1.95
14588.00	89.85	181.87	11651.94	-2977.72	634.64	167.97	3044.60	2983.89	0.66
14682.00	88.48	181.69	11653.31	-3071.66	631.72	168.38	3135.95	3077.80	1.47
14776.00	90.11	179.05	11654.47	-3165.64	631.12	168.73	3227.94	3171.77	3.30
14870.00	92.70	177.91	11652.16	-3259.57	633.61	169.00	3320.58	3265.71	3.01
14965.00	91.78	176.42	11648.45	-3354.38	638.30	169.23	3414.57	3360.56	1.84
15059.00	90.95	176.33	11646.21	-3448.16	644.25	169.42	3507.83	3454.40	0.89
15153.00	90.81	175.36	11644.76	-3541.91	651.06	169.58	3601.24	3548.21	1.04
15247.00	90.81	177.30	11643.44	-3635.70	657.07	169.76	3694.60	3642.06	2.06
15342.00	90.02	176.15	11642.75	-3730.54	662.50	169.93	3788.91	3736.94	1.47
15435.00	91.96	178.09	11641.14	-3823.40	667.17	170.10	3881.17	3829.85	2.95

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
15529.00	94.42	179.67	11635.91	-3917.22	669.01	170.31	3973.94	3923.69	3.11
15623.00	94.15	179.67	11628.89	-4010.96	669.55	170.52	4066.46	4017.42	0.29
15741.00	94.90	178.97	11619.58	-4128.58	670.94	170.77	4182.75	4135.05	0.87
15837.00	92.79	179.05	11613.14	-4224.35	672.60	170.95	4277.56	4230.83	2.20
15931.00	90.15	179.23	11610.73	-4318.30	674.01	171.13	4370.58	4324.79	2.82
16025.00	90.33	179.14	11610.33	-4412.29	675.34	171.30	4463.67	4418.79	0.21
16118.00	87.25	178.70	11612.30	-4505.24	677.10	171.45	4555.83	4511.75	3.35
16212.00	87.96	178.53	11616.23	-4599.13	679.37	171.60	4649.03	4605.66	0.78
16307.00	89.80	180.02	11618.08	-4694.09	680.57	171.75	4743.17	4700.63	2.49
16401.00	88.79	178.70	11619.24	-4788.08	681.62	171.90	4836.35	4794.62	1.77
16496.00	89.98	179.67	11620.26	-4883.06	682.97	172.04	4930.59	4889.61	1.62
16590.00	89.80	180.11	11620.44	-4977.06	683.15	172.18	5023.73	4983.61	0.51
16685.00	89.54	179.41	11620.99	-5072.06	683.55	172.32	5117.91	5078.61	0.79
16778.00	91.08	179.93	11620.48	-5165.05	684.08	172.46	5210.16	5171.60	1.75
16873.00	91.16	179.85	11618.63	-5260.03	684.26	172.59	5304.35	5266.58	0.12
16968.00	91.08	180.02	11616.77	-5355.01	684.37	172.72	5398.57	5361.56	0.20
17062.00	90.68	180.20	11615.33	-5449.00	684.19	172.84	5491.79	5455.54	0.47
17156.00	91.30	180.64	11613.70	-5542.99	683.50	172.97	5584.97	5549.51	0.81
17250.00	89.27	178.53	11613.24	-5636.97	684.18	173.08	5678.34	5643.50	3.11
17344.00	89.05	177.74	11614.61	-5730.91	687.24	173.16	5771.97	5737.46	0.87
17439.00	89.32	177.74	11615.96	-5825.83	690.99	173.24	5866.66	5832.41	0.28
17532.00	88.57	177.56	11617.68	-5918.73	694.80	173.30	5959.37	5925.35	0.83
17626.00	90.55	178.35	11618.40	-6012.66	698.16	173.38	6053.06	6019.31	2.27
17721.00	90.11	178.44	11617.85	-6107.63	700.82	173.45	6147.70	6114.30	0.47
17815.00	88.79	178.09	11618.75	-6201.58	703.66	173.53	6241.37	6208.27	1.45
17909.00	88.35	177.82	11621.10	-6295.49	707.02	173.59	6335.06	6302.21	0.55
18004.00	89.10	176.68	11623.21	-6390.35	711.57	173.65	6429.85	6397.11	1.44
18098.00	90.42	177.82	11623.61	-6484.24	716.08	173.70	6523.66	6491.04	1.86
18193.00	92.09	180.29	11621.53	-6579.19	717.65	173.77	6618.22	6586.01	3.14
18287.00	92.00	180.99	11618.17	-6673.13	716.60	173.87	6711.49	6679.92	0.75
18381.00	92.22	180.81	11614.71	-6767.05	715.12	173.97	6804.73	6773.83	0.30
18476.00	92.00	180.02	11611.21	-6861.98	714.44	174.06	6899.07	6868.75	0.86
18569.00	91.78	179.85	11608.15	-6954.93	714.54	174.13	6991.54	6961.70	0.30
18663.00	89.80	178.44	11606.85	-7048.91	715.94	174.20	7085.17	7055.68	2.59
18757.00	90.55	178.97	11606.56	-7142.88	718.07	174.26	7178.88	7149.67	0.98
18851.00	89.89	179.32	11606.20	-7236.87	719.47	174.32	7272.54	7243.67	0.79
18945.00	89.71	180.20	11606.53	-7330.87	719.87	174.39	7366.13	7337.66	0.96

DigiDrill DataLogger

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MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
19039.00	89.45	179.85	11607.22	-7424.86	719.82	174.46	7459.67	7431.66	0.46
19133.00	91.74	181.25	11606.24	-7518.85	718.92	174.54	7553.14	7525.63	2.86
19228.00	90.07	179.58	11604.74	-7613.82	718.23	174.61	7647.63	7620.59	2.49
19323.00	87.82	178.97	11606.49	-7708.79	719.44	174.67	7742.29	7715.57	2.45
19418.00	86.59	178.09	11611.12	-7803.65	721.87	174.71	7836.96	7810.44	1.59
19512.00	86.64	178.44	11616.67	-7897.44	724.71	174.76	7930.62	7904.26	0.38
19606.00	89.71	180.72	11619.67	-7991.37	725.40	174.81	8024.23	7998.19	4.07
19700.00	89.32	181.78	11620.46	-8085.34	723.35	174.89	8117.64	8092.14	1.20
19795.00	89.76	182.39	11621.23	-8180.28	719.89	174.97	8211.89	8187.04	0.79
19889.00	89.36	182.13	11621.95	-8274.20	716.18	175.05	8305.14	8280.92	0.51
19983.00	90.20	182.13	11622.31	-8368.14	712.69	175.13	8398.43	8374.81	0.89
20078.00	86.95	181.52	11624.67	-8463.04	709.67	175.21	8492.75	8469.69	3.48
20173.00	87.38	180.37	11629.37	-8557.91	708.10	175.27	8587.16	8564.53	1.29
20267.00	89.98	179.85	11631.54	-8651.88	707.92	175.32	8680.79	8658.49	2.82
20361.00	92.18	180.37	11629.76	-8745.86	707.74	175.37	8774.45	8752.47	2.40
20455.00	92.31	180.55	11626.08	-8839.78	706.99	175.43	8868.01	8846.38	0.24
20550.00	92.92	180.02	11621.75	-8934.68	706.52	175.48	8962.57	8941.27	0.85
20644.00	91.96	180.37	11617.75	-9028.59	706.20	175.53	9056.17	9035.17	1.09
20739.00	91.25	180.11	11615.08	-9123.56	705.80	175.58	9150.82	9130.13	0.80
20833.00	89.80	179.67	11614.22	-9217.55	705.98	175.62	9244.54	9224.12	1.61
20927.00	88.35	179.93	11615.74	-9311.53	706.31	175.66	9338.28	9318.10	1.57
21021.00	87.56	178.70	11619.10	-9405.46	707.43	175.70	9432.03	9412.04	1.55
21116.00	86.90	177.91	11623.69	-9500.31	710.24	175.72	9526.82	9506.91	1.08
21211.00	86.86	177.38	11628.86	-9595.09	714.13	175.74	9621.63	9601.72	0.56
21306.00	87.91	176.51	11633.19	-9689.85	719.19	175.76	9716.51	9696.53	1.43
21402.00	86.95	175.54	11637.50	-9785.52	725.84	175.76	9812.41	9792.26	1.42
21496.00	90.55	176.77	11639.55	-9879.27	732.14	175.76	9906.36	9886.07	4.05
21592.00	88.88	176.59	11640.02	-9975.11	737.70	175.77	10002.35	9981.95	1.75
21687.00	89.76	176.42	11641.15	-10069.92	743.49	175.78	10097.33	10076.82	0.94
21782.00	91.08	176.33	11640.45	-10164.73	749.50	175.78	10192.32	10171.68	1.39
21877.00	89.49	174.40	11639.98	-10259.41	757.17	175.78	10287.31	10266.43	2.63
21888.00	89.54	174.31	11640.08	-10270.35	758.25	175.78	10298.31	10277.39	0.94

Projected Survey

MD	Inclination	Azimuth	TVD	NS	EW	CA	CD	VS	DLS
21953.00	89.54	174.31	11640.60	-10335.03	764.70	175.77	10363.28	10342.13	0.00



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Black Marlin) Sec-18_T-25-S_R-36-E
Black Marlin Fed Com #204H
API# 30-025-46976
OWB**

Design: AWB

Standard Survey Report

05 September, 2020





Operator: Tap Rock Resources, LLC.
Well Name: Black Marlin Fed Com #204H
County: Lea
State: New Mexico
Rig Name: H&P 376
Job Number: 30-025-46976

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: 176' MD – 21,888' MD
Projection to Bit: 21,953' MD
Dates Performed: 08/16/2020 – 09/03/2020
Type of Survey: MWD

Sincerely,

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

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists





Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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	(Black Marlin) Sec-18_T-25-S_R-36-E		
Site Position:		Northing:	415,156.00 usft
From:	Map	Easting:	861,141.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 13.653 N
		Longitude:	103° 18' 0.552 W
		Grid Convergence:	0.55 °

Well	Black Marlin Fed Com #204H		
Well Position	+N/-S	0.0 usft	Northing: 415,156.00 usft
	+E/-W	0.0 usft	Easting: 861,141.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 8' 13.653 N
		Longitude:	103° 18' 0.552 W
		Ground Level:	3,183.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	08/24/20	6.46	59.72	47,663.51834598

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	179.43	

Survey Program	Date	09/05/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
176.0	21,953.0	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
176.0	0.70	165.08	176.0	-1.0	0.3	1.0	0.40	0.40	0.00
237.0	0.79	179.49	237.0	-1.8	0.4	1.8	0.34	0.15	23.62
328.0	1.10	186.53	328.0	-3.3	0.3	3.3	0.36	0.34	7.74
421.0	1.41	216.58	421.0	-5.1	-0.5	5.1	0.77	0.33	32.31
513.0	1.54	216.50	512.9	-7.0	-1.9	7.0	0.14	0.14	-0.09
605.0	1.93	216.14	604.9	-9.3	-3.6	9.2	0.42	0.42	-0.39
700.0	1.10	214.30	699.8	-11.3	-5.0	11.3	0.88	-0.87	-1.94
794.0	0.44	169.91	793.8	-12.4	-5.5	12.4	0.90	-0.70	-47.22
889.0	0.75	186.17	888.8	-13.4	-5.5	13.3	0.37	0.33	17.12



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)
984.0	0.75	185.65	983.8	-14.6	-5.6	14.6	0.01	0.00	-0.55
1,079.0	0.84	192.59	1,078.8	-15.9	-5.8	15.9	0.14	0.09	7.31
1,173.0	0.66	220.98	1,172.8	-17.0	-6.3	16.9	0.43	-0.19	30.20
1,200.2	0.77	229.62	1,200.0	-17.2	-6.6	17.2	0.57	0.41	31.76
Rustler Anhydrite									
1,268.0	1.10	242.60	1,267.8	-17.8	-7.5	17.8	0.57	0.48	19.15
1,306.0	1.32	237.06	1,305.8	-18.2	-8.2	18.2	0.66	0.58	-14.58
1,438.0	0.92	209.38	1,437.8	-20.0	-10.0	19.9	0.50	-0.30	-20.97
1,533.0	0.84	151.37	1,532.8	-21.3	-10.0	21.2	0.90	-0.08	-61.06
1,629.0	0.35	92.31	1,628.8	-21.9	-9.4	21.8	0.76	-0.51	-61.52
1,724.0	0.26	38.08	1,723.8	-21.7	-9.0	21.7	0.30	-0.09	-57.08
1,730.2	0.25	38.48	1,730.0	-21.7	-8.9	21.6	0.14	-0.14	6.41
Top Salt									
1,819.0	0.13	49.94	1,818.8	-21.5	-8.7	21.4	0.14	-0.14	12.91
1,914.0	0.31	70.51	1,913.8	-21.3	-8.4	21.3	0.20	0.19	21.65
2,009.0	0.13	39.84	2,008.7	-21.2	-8.1	21.1	0.22	-0.19	-32.28
2,105.0	0.35	12.85	2,104.7	-20.8	-8.0	20.7	0.25	0.23	-28.11
2,199.0	0.26	3.54	2,198.7	-20.3	-7.9	20.2	0.11	-0.10	-9.90
2,294.0	0.44	16.46	2,293.7	-19.8	-7.8	19.7	0.21	0.19	13.60
2,388.0	0.57	46.78	2,387.7	-19.1	-7.3	19.0	0.31	0.14	32.26
2,483.0	0.75	44.67	2,482.7	-18.3	-6.5	18.3	0.19	0.19	-2.22
2,578.0	1.67	43.18	2,577.7	-16.9	-5.2	16.8	0.97	0.97	-1.57
2,672.0	2.42	53.72	2,671.7	-14.7	-2.6	14.7	0.89	0.80	11.21
2,766.0	3.96	64.80	2,765.5	-12.1	1.9	12.2	1.76	1.64	11.79
2,860.0	5.27	74.64	2,859.2	-9.6	9.0	9.7	1.62	1.39	10.47
2,955.0	6.33	73.32	2,953.7	-7.0	18.2	7.1	1.12	1.12	-1.39
3,050.0	7.21	72.79	3,048.0	-3.7	28.9	4.0	0.93	0.93	-0.56
3,144.0	7.03	75.34	3,141.3	-0.5	40.1	0.9	0.39	-0.19	2.71
3,239.0	6.55	78.07	3,235.7	2.1	51.1	-1.6	0.61	-0.51	2.87
3,333.0	6.07	80.53	3,329.1	4.0	61.2	-3.4	0.59	-0.51	2.62
3,389.2	5.91	80.17	3,385.0	5.0	67.0	-4.3	0.29	-0.28	-0.64
Base Salt									
3,428.0	5.80	79.91	3,423.6	5.7	70.9	-5.0	0.29	-0.28	-0.67
3,523.0	6.11	79.83	3,518.1	7.4	80.6	-6.6	0.33	0.33	-0.08
3,618.0	6.55	82.99	3,612.5	9.0	91.0	-8.1	0.59	0.46	3.33
3,712.0	6.46	87.21	3,705.9	9.9	101.6	-8.9	0.52	-0.10	4.49
3,806.0	6.29	85.54	3,799.3	10.6	112.0	-9.4	0.27	-0.18	-1.78
3,901.0	6.29	83.61	3,893.7	11.5	122.3	-10.3	0.22	0.00	-2.03
3,996.0	7.03	82.29	3,988.1	12.9	133.3	-11.6	0.80	0.78	-1.39
4,090.0	7.03	82.37	4,081.4	14.4	144.7	-13.0	0.01	0.00	0.09
4,184.0	7.56	79.65	4,174.6	16.3	156.5	-14.8	0.67	0.56	-2.89
4,279.0	8.04	77.01	4,268.7	18.9	169.1	-17.2	0.63	0.51	-2.78
4,373.0	7.65	76.75	4,361.9	21.8	181.6	-20.0	0.42	-0.41	-0.28
4,469.0	7.03	76.75	4,457.1	24.6	193.5	-22.7	0.65	-0.65	0.00



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)
4,564.0	7.08	76.49	4,551.4	27.3	204.9	-25.3	0.06	0.05	-0.27
4,659.0	6.99	75.08	4,645.6	30.2	216.1	-28.1	0.20	-0.09	-1.48
4,754.0	7.03	76.05	4,739.9	33.1	227.4	-30.8	0.13	0.04	1.02
4,850.0	6.90	75.52	4,835.2	36.0	238.6	-33.6	0.15	-0.14	-0.55
4,945.0	6.77	74.99	4,929.5	38.8	249.6	-36.3	0.15	-0.14	-0.56
5,040.0	6.81	76.13	5,023.9	41.6	260.5	-39.0	0.15	0.04	1.20
5,135.0	6.64	75.96	5,118.2	44.3	271.3	-41.6	0.18	-0.18	-0.18
5,151.9	6.60	76.04	5,135.0	44.8	273.1	-42.1	0.24	-0.23	0.45
Delaware Mountain									
5,182.1	6.53	76.17	5,165.0	45.6	276.5	-42.9	0.24	-0.23	0.46
Lamar									
5,197.2	6.50	76.24	5,180.0	46.0	278.2	-43.2	0.24	-0.23	0.47
Bell Canyon									
5,212.3	6.46	76.32	5,195.0	46.4	279.8	-43.6	0.24	-0.23	0.47
Ramsey Sand									
5,230.0	6.42	76.40	5,212.6	46.9	281.7	-44.1	0.24	-0.23	0.48
5,262.0	6.29	74.99	5,244.4	47.8	285.2	-44.9	0.63	-0.41	-4.41
5,413.0	5.63	76.49	5,394.6	51.6	300.4	-48.6	0.45	-0.44	0.99
5,509.0	5.93	76.57	5,490.1	53.9	309.8	-50.8	0.31	0.31	0.08
5,604.0	6.99	73.15	5,584.5	56.7	320.1	-53.5	1.19	1.12	-3.60
5,698.0	7.30	72.88	5,677.8	60.1	331.3	-56.8	0.33	0.33	-0.29
5,793.0	6.64	72.97	5,772.1	63.5	342.3	-60.1	0.69	-0.69	0.09
5,887.0	6.77	73.59	5,865.4	66.7	352.8	-63.2	0.16	0.14	0.66
5,983.0	7.08	75.96	5,960.7	69.7	364.0	-66.1	0.44	0.32	2.47
6,078.0	6.59	74.73	6,055.1	72.6	374.9	-68.8	0.54	-0.52	-1.29
6,133.3	6.88	74.94	6,110.0	74.3	381.2	-70.5	0.52	0.52	0.38
Cherry Canyon									
6,173.0	7.08	75.08	6,149.4	75.5	385.8	-71.7	0.52	0.52	0.35
6,268.0	8.09	71.56	6,243.5	79.1	397.8	-75.2	1.17	1.06	-3.71
6,362.0	8.09	71.04	6,336.6	83.4	410.3	-79.3	0.08	0.00	-0.55
6,456.0	7.74	70.16	6,429.7	87.7	422.6	-83.5	0.39	-0.37	-0.94
6,551.0	7.25	71.30	6,523.9	91.8	434.2	-87.4	0.54	-0.52	1.20
6,645.0	6.73	71.39	6,617.2	95.4	445.1	-91.0	0.55	-0.55	0.10
6,740.0	6.86	70.77	6,711.5	99.1	455.7	-94.5	0.16	0.14	-0.65
6,834.0	6.90	76.66	6,804.9	102.2	466.5	-97.6	0.75	0.04	6.27
6,929.0	6.42	73.32	6,899.2	105.0	477.2	-100.3	0.65	-0.51	-3.52
7,023.0	6.77	79.83	6,992.6	107.5	487.6	-102.7	0.88	0.37	6.93
7,118.0	6.37	82.99	7,087.0	109.2	498.4	-104.2	0.57	-0.42	3.33
7,201.6	6.65	83.15	7,170.0	110.3	507.8	-105.3	0.33	0.33	0.19
Brushy Canyon									
7,211.0	6.68	83.17	7,179.4	110.4	508.9	-105.4	0.33	0.33	0.19
7,305.0	6.64	83.87	7,272.7	111.7	519.7	-106.5	0.10	-0.04	0.74
7,399.0	6.95	86.15	7,366.1	112.6	530.8	-107.3	0.44	0.33	2.43
7,494.0	6.99	88.70	7,460.4	113.2	542.3	-107.7	0.33	0.04	2.68
7,588.0	6.33	90.72	7,553.7	113.2	553.2	-107.7	0.74	-0.70	2.15



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)
7,682.0	5.23	92.57	7,647.3	113.0	562.7	-107.4	1.19	-1.17	1.97
7,773.0	5.45	84.57	7,737.9	113.2	571.1	-107.5	0.85	0.24	-8.79
7,867.0	5.67	77.10	7,831.4	114.6	580.1	-108.9	0.80	0.23	-7.95
7,962.0	3.96	74.03	7,926.1	116.6	587.8	-110.7	1.82	-1.80	-3.23
8,056.0	3.82	74.99	8,019.9	118.3	594.0	-112.4	0.16	-0.15	1.02
8,152.0	3.21	74.82	8,115.7	119.8	599.6	-113.9	0.64	-0.64	-0.18
8,244.0	2.64	68.66	8,207.6	121.3	604.1	-115.3	0.71	-0.62	-6.70
8,339.0	2.81	74.90	8,302.5	122.7	608.4	-116.6	0.36	0.18	6.57
8,433.0	1.01	90.20	8,396.4	123.3	611.4	-117.2	1.97	-1.91	16.28
8,461.6	1.26	94.34	8,425.0	123.2	612.0	-117.2	0.92	0.88	14.47
Bone Spring Lime									
8,481.6	1.44	96.37	8,445.0	123.2	612.5	-117.1	0.92	0.89	10.14
Upper Avalon									
8,527.0	1.85	99.51	8,490.4	123.0	613.8	-116.9	0.92	0.90	6.92
8,620.0	1.93	93.80	8,583.3	122.7	616.8	-116.5	0.22	0.09	-6.14
8,715.0	1.67	78.42	8,678.3	122.8	619.8	-116.7	0.57	-0.27	-16.19
8,751.7	1.75	85.56	8,715.0	123.0	620.8	-116.8	0.62	0.23	19.43
Middle Avalon									
8,809.0	1.93	95.21	8,772.2	123.0	622.7	-116.8	0.62	0.31	16.85
8,903.0	1.14	135.29	8,866.2	122.2	624.9	-115.9	1.37	-0.84	42.64
8,997.0	1.10	129.31	8,960.2	120.9	626.3	-114.7	0.13	-0.04	-6.36
9,090.0	0.97	121.75	9,053.2	119.9	627.6	-113.7	0.20	-0.14	-8.13
9,181.8	0.92	117.09	9,145.0	119.2	628.9	-112.9	0.10	-0.05	-5.08
Lower Avalon									
9,185.0	0.92	116.92	9,148.2	119.2	629.0	-112.9	0.10	-0.05	-5.34
9,279.0	0.79	125.53	9,242.1	118.5	630.2	-112.2	0.19	-0.14	9.16
9,374.0	0.88	321.44	9,337.1	118.6	630.3	-112.4	1.74	0.09	-172.73
9,469.0	1.41	297.97	9,432.1	119.8	628.8	-113.5	0.73	0.56	-24.71
9,563.0	1.01	298.15	9,526.1	120.7	627.0	-114.5	0.43	-0.43	0.19
9,657.0	0.88	302.72	9,620.1	121.5	625.7	-115.3	0.16	-0.14	4.86
9,711.9	0.98	302.88	9,675.0	122.0	624.9	-115.7	0.18	0.18	0.29
1st Bone Spring Sand									
9,752.0	1.05	302.98	9,715.1	122.3	624.3	-116.1	0.18	0.18	0.25
9,781.9	1.04	301.50	9,745.0	122.6	623.9	-116.4	0.10	-0.04	-4.95
2nd Bone Spring Carb									
9,847.0	1.01	298.15	9,810.1	123.2	622.9	-117.0	0.10	-0.04	-5.15
9,941.0	0.44	270.20	9,904.1	123.6	621.8	-117.4	0.70	-0.61	-29.73
10,036.0	0.57	260.97	9,999.1	123.5	621.0	-117.4	0.16	0.14	-9.72
10,130.0	0.44	252.53	10,093.0	123.4	620.1	-117.2	0.16	-0.14	-8.98
10,225.0	0.09	109.09	10,188.0	123.2	619.9	-117.0	0.54	-0.37	-150.99
10,262.0	0.36	103.64	10,225.0	123.2	620.0	-117.0	0.75	0.74	-14.75
2nd Bone Spring Sand									
10,319.0	0.79	102.68	10,282.0	123.1	620.6	-116.9	0.75	0.75	-1.68
10,413.0	1.63	120.96	10,376.0	122.2	622.3	-116.0	0.97	0.89	19.45



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)
10,507.0	0.62	94.68	10,470.0	121.5	624.0	-115.3	1.18	-1.07	-27.96
10,601.0	0.44	80.09	10,564.0	121.5	624.9	-115.3	0.24	-0.19	-15.52
10,695.0	0.44	49.15	10,658.0	121.8	625.5	-115.6	0.25	0.00	-32.91
10,789.0	1.14	264.92	10,752.0	122.0	624.8	-115.7	1.62	0.74	-153.44
10,883.0	0.75	257.63	10,846.0	121.8	623.3	-115.5	0.43	-0.41	-7.76
10,892.0	0.76	252.48	10,855.0	121.7	623.2	-115.5	0.75	0.06	-57.06
3rd Bone Spring Carb									
10,977.0	1.05	215.35	10,940.0	120.9	622.2	-114.7	0.75	0.35	-43.70
11,005.0	1.01	216.23	10,968.0	120.5	621.9	-114.3	0.15	-0.14	3.14
11,101.0	1.19	262.20	11,063.9	119.7	620.4	-113.5	0.91	0.19	47.89
11,195.0	3.65	171.32	11,157.9	116.6	619.9	-110.4	4.10	2.62	-96.68
11,289.0	10.81	167.54	11,251.1	105.0	622.3	-98.8	7.63	7.62	-4.02
11,362.2	19.09	165.70	11,321.7	86.7	626.7	-80.4	11.33	11.32	-2.51
FTP @ 11362.2'MD, 100'FNL & 567'FWL									
11,383.0	21.45	165.43	11,341.2	79.7	628.5	-73.5	11.33	11.33	-1.29
11,478.0	32.70	164.03	11,425.7	38.1	640.0	-31.7	11.86	11.84	-1.47
11,544.3	37.33	165.76	11,480.0	1.4	649.9	5.1	7.14	6.98	2.61
3rd Bone Spring Sand									
11,573.0	39.34	166.40	11,502.5	-15.9	654.1	22.4	7.14	7.01	2.23
11,668.0	53.67	177.12	11,567.8	-83.9	663.2	90.4	17.12	15.08	11.28
11,764.0	64.18	181.87	11,617.3	-165.9	663.7	172.5	11.73	10.95	4.95
11,770.2	64.75	181.73	11,620.0	-171.6	663.6	178.1	9.41	9.20	-2.19
3rd BS W Sand									
11,858.0	72.84	179.93	11,651.7	-253.3	662.4	259.9	9.41	9.21	-2.05
11,869.6	74.35	179.99	11,655.0	-264.4	662.4	271.0	12.97	12.96	0.47
Wolfcamp A X Sand									
11,955.0	85.41	180.37	11,670.0	-348.4	662.1	354.9	12.97	12.96	0.45
12,049.0	87.82	180.99	11,675.5	-442.2	661.0	448.7	2.65	2.56	0.66
12,143.0	88.53	179.93	11,678.5	-536.1	660.3	542.7	1.36	0.76	-1.13
12,238.0	89.05	179.76	11,680.5	-631.1	660.5	637.6	0.58	0.55	-0.18
12,332.0	89.93	180.72	11,681.4	-725.1	660.1	731.6	1.39	0.94	1.02
12,425.0	91.69	180.81	11,680.1	-818.1	658.9	824.6	1.89	1.89	0.10
12,519.0	92.35	181.08	11,676.7	-912.0	657.3	918.5	0.76	0.70	0.29
12,613.0	92.18	181.69	11,673.0	-1,005.9	655.1	1,012.4	0.67	-0.18	0.65
12,707.0	93.01	182.48	11,668.8	-1,099.7	651.7	1,106.2	1.22	0.88	0.84
12,801.0	90.68	181.87	11,665.7	-1,193.6	648.1	1,200.0	2.56	-2.48	-0.65
12,895.0	90.55	182.04	11,664.7	-1,287.6	644.9	1,293.9	0.23	-0.14	0.18
12,989.0	87.96	182.39	11,666.0	-1,381.5	641.3	1,387.8	2.78	-2.76	0.37
13,084.0	87.30	182.31	11,669.9	-1,476.3	637.4	1,482.6	0.70	-0.69	-0.08
13,178.0	89.23	182.22	11,672.7	-1,570.2	633.7	1,576.4	2.06	2.05	-0.10
13,273.0	91.47	185.65	11,672.1	-1,664.9	627.1	1,671.1	4.31	2.36	3.61
13,366.0	90.73	186.00	11,670.4	-1,757.4	617.7	1,763.5	0.88	-0.80	0.38
13,460.0	88.75	182.66	11,670.8	-1,851.2	610.6	1,857.1	4.13	-2.11	-3.55
13,554.0	88.84	180.29	11,672.8	-1,945.1	608.2	1,951.1	2.52	0.10	-2.52



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)
13,648.0	88.62	178.97	11,674.9	-2,039.1	608.8	2,045.0	1.42	-0.23	-1.40
13,742.0	88.92	178.18	11,676.9	-2,133.0	611.1	2,139.0	0.90	0.32	-0.84
13,835.0	92.62	176.77	11,675.6	-2,225.9	615.2	2,231.9	4.26	3.98	-1.52
13,929.0	92.79	176.95	11,671.2	-2,319.7	620.4	2,325.7	0.26	0.18	0.19
14,024.0	91.87	176.24	11,667.3	-2,414.4	626.0	2,420.5	1.22	-0.97	-0.75
14,118.0	92.79	177.12	11,663.5	-2,508.2	631.4	2,514.3	1.35	0.98	0.94
14,212.0	93.05	177.65	11,658.7	-2,602.0	635.7	2,608.1	0.63	0.28	0.56
14,307.0	90.55	178.44	11,655.7	-2,696.8	639.0	2,703.1	2.76	-2.63	0.83
14,401.0	91.65	180.55	11,653.9	-2,790.8	639.8	2,797.0	2.53	1.17	2.24
14,495.0	90.46	181.95	11,652.2	-2,884.8	637.7	2,891.0	1.95	-1.27	1.49
14,588.0	89.85	181.87	11,651.9	-2,977.7	634.6	2,983.9	0.66	-0.66	-0.09
14,682.0	88.48	181.69	11,653.3	-3,071.7	631.7	3,077.8	1.47	-1.46	-0.19
14,776.0	90.11	179.05	11,654.5	-3,165.6	631.1	3,171.8	3.30	1.73	-2.81
14,870.0	92.70	177.91	11,652.2	-3,259.6	633.6	3,265.7	3.01	2.76	-1.21
14,965.0	91.78	176.42	11,648.4	-3,354.4	638.3	3,360.6	1.84	-0.97	-1.57
15,059.0	90.95	176.33	11,646.2	-3,448.2	644.2	3,454.4	0.89	-0.88	-0.10
15,153.0	90.81	175.36	11,644.8	-3,541.9	651.1	3,548.2	1.04	-0.15	-1.03
15,247.0	90.81	177.30	11,643.4	-3,635.7	657.1	3,642.1	2.06	0.00	2.06
15,342.0	90.02	176.15	11,642.7	-3,730.5	662.5	3,736.9	1.47	-0.83	-1.21
15,435.0	91.96	178.09	11,641.1	-3,823.4	667.2	3,829.8	2.95	2.09	2.09
15,529.0	94.42	179.67	11,635.9	-3,917.2	669.0	3,923.7	3.11	2.62	1.68
15,623.0	94.15	179.67	11,628.9	-4,011.0	669.5	4,017.4	0.29	-0.29	0.00
15,741.0	94.90	178.97	11,619.6	-4,128.6	670.9	4,135.1	0.87	0.64	-0.59
15,837.0	92.79	179.05	11,613.1	-4,224.3	672.6	4,230.8	2.20	-2.20	0.08
15,931.0	90.15	179.23	11,610.7	-4,318.3	674.0	4,324.8	2.82	-2.81	0.19
16,025.0	90.33	179.14	11,610.3	-4,412.3	675.3	4,418.8	0.21	0.19	-0.10
16,118.0	87.25	178.70	11,612.3	-4,505.2	677.1	4,511.8	3.35	-3.31	-0.47
16,212.0	87.96	178.53	11,616.2	-4,599.1	679.4	4,605.7	0.78	0.76	-0.18
16,307.0	89.80	180.02	11,618.1	-4,694.1	680.6	4,700.6	2.49	1.94	1.57
16,401.0	88.79	178.70	11,619.2	-4,788.1	681.6	4,794.6	1.77	-1.07	-1.40
16,496.0	89.98	179.67	11,620.3	-4,883.1	683.0	4,889.6	1.62	1.25	1.02
16,590.0	89.80	180.11	11,620.4	-4,977.1	683.1	4,983.6	0.51	-0.19	0.47
16,685.0	89.54	179.41	11,621.0	-5,072.1	683.5	5,078.6	0.79	-0.27	-0.74
16,778.0	91.08	179.93	11,620.5	-5,165.1	684.1	5,171.6	1.75	1.66	0.56
16,873.0	91.16	179.85	11,618.6	-5,260.0	684.3	5,266.6	0.12	0.08	-0.08
16,968.0	91.08	180.02	11,616.8	-5,355.0	684.4	5,361.6	0.20	-0.08	0.18
17,062.0	90.68	180.20	11,615.3	-5,449.0	684.2	5,455.5	0.47	-0.43	0.19
17,156.0	91.30	180.64	11,613.7	-5,543.0	683.5	5,549.5	0.81	0.66	0.47
17,250.0	89.27	178.53	11,613.2	-5,637.0	684.2	5,643.5	3.11	-2.16	-2.24
17,344.0	89.05	177.74	11,614.6	-5,730.9	687.2	5,737.5	0.87	-0.23	-0.84
17,439.0	89.32	177.74	11,616.0	-5,825.8	691.0	5,832.4	0.28	0.28	0.00
17,532.0	88.57	177.56	11,617.7	-5,918.7	694.8	5,925.4	0.83	-0.81	-0.19
17,626.0	90.55	178.35	11,618.4	-6,012.7	698.2	6,019.3	2.27	2.11	0.84
17,721.0	90.11	178.44	11,617.9	-6,107.6	700.8	6,114.3	0.47	-0.46	0.09



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)
17,815.0	88.79	178.09	11,618.8	-6,201.6	703.7	6,208.3	1.45	-1.40	-0.37
17,909.0	88.35	177.82	11,621.1	-6,295.5	707.0	6,302.2	0.55	-0.47	-0.29
18,004.0	89.10	176.68	11,623.2	-6,390.4	711.6	6,397.1	1.44	0.79	-1.20
18,098.0	90.42	177.82	11,623.6	-6,484.2	716.1	6,491.0	1.86	1.40	1.21
18,193.0	92.09	180.29	11,621.5	-6,579.2	717.6	6,586.0	3.14	1.76	2.60
18,287.0	92.00	180.99	11,618.2	-6,673.1	716.6	6,679.9	0.75	-0.10	0.74
18,381.0	92.22	180.81	11,614.7	-6,767.1	715.1	6,773.8	0.30	0.23	-0.19
18,476.0	92.00	180.02	11,611.2	-6,862.0	714.4	6,868.8	0.86	-0.23	-0.83
18,569.0	91.78	179.85	11,608.1	-6,954.9	714.5	6,961.7	0.30	-0.24	-0.18
18,663.0	89.80	178.44	11,606.8	-7,048.9	715.9	7,055.7	2.59	-2.11	-1.50
18,757.0	90.55	178.97	11,606.6	-7,142.9	718.1	7,149.7	0.98	0.80	0.56
18,851.0	89.89	179.32	11,606.2	-7,236.9	719.5	7,243.7	0.79	-0.70	0.37
18,945.0	89.71	180.20	11,606.5	-7,330.9	719.9	7,337.7	0.96	-0.19	0.94
19,039.0	89.45	179.85	11,607.2	-7,424.9	719.8	7,431.7	0.46	-0.28	-0.37
19,133.0	91.74	181.25	11,606.2	-7,518.8	718.9	7,525.6	2.86	2.44	1.49
19,228.0	90.07	179.58	11,604.7	-7,613.8	718.2	7,620.6	2.49	-1.76	-1.76
19,323.0	87.82	178.97	11,606.5	-7,708.8	719.4	7,715.6	2.45	-2.37	-0.64
19,418.0	86.59	178.09	11,611.1	-7,803.6	721.9	7,810.4	1.59	-1.29	-0.93
19,512.0	86.64	178.44	11,616.7	-7,897.4	724.7	7,904.3	0.38	0.05	0.37
19,606.0	89.71	180.72	11,619.7	-7,991.4	725.4	7,998.2	4.07	3.27	2.43
19,700.0	89.32	181.78	11,620.5	-8,085.3	723.3	8,092.1	1.20	-0.41	1.13
19,795.0	89.76	182.39	11,621.2	-8,180.3	719.9	8,187.0	0.79	0.46	0.64
19,889.0	89.36	182.13	11,621.9	-8,274.2	716.2	8,280.9	0.51	-0.43	-0.28
19,983.0	90.20	182.13	11,622.3	-8,368.1	712.7	8,374.8	0.89	0.89	0.00
20,078.0	86.95	181.52	11,624.7	-8,463.0	709.7	8,469.7	3.48	-3.42	-0.64
20,173.0	87.38	180.37	11,629.4	-8,557.9	708.1	8,564.5	1.29	0.45	-1.21
20,267.0	89.98	179.85	11,631.5	-8,651.9	707.9	8,658.5	2.82	2.77	-0.55
20,361.0	92.18	180.37	11,629.8	-8,745.9	707.7	8,752.5	2.40	2.34	0.55
20,455.0	92.31	180.55	11,626.1	-8,839.8	707.0	8,846.4	0.24	0.14	0.19
20,550.0	92.92	180.02	11,621.7	-8,934.7	706.5	8,941.3	0.85	0.64	-0.56
20,644.0	91.96	180.37	11,617.7	-9,028.6	706.2	9,035.2	1.09	-1.02	0.37
20,739.0	91.25	180.11	11,615.1	-9,123.6	705.8	9,130.1	0.80	-0.75	-0.27
20,833.0	89.80	179.67	11,614.2	-9,217.5	706.0	9,224.1	1.61	-1.54	-0.47
20,927.0	88.35	179.93	11,615.7	-9,311.5	706.3	9,318.1	1.57	-1.54	0.28
21,021.0	87.56	178.70	11,619.1	-9,405.5	707.4	9,412.0	1.55	-0.84	-1.31
21,116.0	86.90	177.91	11,623.7	-9,500.3	710.2	9,506.9	1.08	-0.69	-0.83
21,211.0	86.86	177.38	11,628.9	-9,595.1	714.1	9,601.7	0.56	-0.04	-0.56
21,306.0	87.91	176.51	11,633.2	-9,689.9	719.2	9,696.5	1.43	1.11	-0.92
21,402.0	86.95	175.54	11,637.5	-9,785.5	725.8	9,792.3	1.42	-1.00	-1.01
21,496.0	90.55	176.77	11,639.5	-9,879.3	732.1	9,886.1	4.05	3.83	1.31
21,592.0	88.88	176.59	11,640.0	-9,975.1	737.7	9,982.0	1.75	-1.74	-0.19
21,687.0	89.76	176.42	11,641.2	-10,069.9	743.5	10,076.8	0.94	0.93	-0.18
21,782.0	91.08	176.33	11,640.5	-10,164.7	749.5	10,171.7	1.39	1.39	-0.09



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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)	
21,877.0	89.49	174.40	11,640.0	-10,259.4	757.2	10,266.4	2.63	-1.67	-2.03	
21,885.9	89.53	174.33	11,640.1	-10,268.3	758.0	10,275.3	0.94	0.45	-0.82	
LTP @ 21885.9'MD, 100'FSL & 595.3'FWL										
21,888.0	89.54	174.31	11,640.1	-10,270.4	758.3	10,277.4	0.94	0.45	-0.82	
LAST SVY										
21,953.0	89.54	174.31	11,640.6	-10,335.0	764.7	10,342.1	0.00	0.00	0.00	
Projection to TD @ 21953'MD, 33.2'FSL & 601.3'FWL										

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	
7000'VS (Black Marlin	-0.30	179.43	11,617.0	-6,993.6	680.5	408,162.40	861,821.46	32° 7' 4.390 N	103° 17' 53.420 W	
- actual wellpath misses target center by 35.7usft at 18607.0usft MD (11607.2 TVD, -6993.0 N, 714.8 E)										
- Rectangle (sides W100.0 H3,000.1 D15.0)										
4000'VS (Black Marlin	-0.70	179.43	11,633.0	-3,993.7	650.6	411,162.30	861,791.61	32° 7' 34.075 N	103° 17' 53.432 W	
- actual wellpath misses target center by 19.1usft at 15605.4usft MD (11630.2 TVD, -3993.4 N, 669.4 E)										
- Rectangle (sides W100.0 H4,080.9 D15.0)										
PBHL (Black Marlin F	0.41	179.43	11,641.0	-10,364.0	714.0	404,792.00	861,855.00	32° 6' 31.038 N	103° 17' 53.407 W	
- actual wellpath misses target center by 58.4usft at 21953.0usft MD (11640.6 TVD, -10335.0 N, 764.7 E)										
- Rectangle (sides W100.0 H3,370.7 D15.0)										
LTP (Black Marlin Fec	0.00	0.00	11,641.0	-10,269.0	713.0	404,887.00	861,854.00	32° 6' 31.978 N	103° 17' 53.408 W	
- actual wellpath misses target center by 44.9usft at 21882.2usft MD (11640.0 TVD, -10264.6 N, 757.7 E)										
- Point										
FTP (Black Marlin Fec	0.00	0.00	11,676.0	87.0	610.0	415,243.00	861,751.00	32° 8' 14.456 N	103° 17' 53.448 W	
- actual wellpath misses target center by 199.6usft at 11614.8usft MD (11533.3 TVD, -43.6 N, 659.4 E)										
- Point										



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Black Marlin Fed Com #204H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3209.0usft (H&P 376)
Site:	(Black Marlin) Sec-18_T-25-S_R-36-E	MD Reference:	KB @ 3209.0usft (H&P 376)
Well:	Black Marlin Fed Com #204H	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 (°)
1,200.2	1,200.0	Rustler Anhydrite			
1,730.2	1,730.0	Top Salt			
3,389.2	3,385.0	Base Salt			
5,151.9	5,135.0	Delaware Mountain			
5,182.1	5,165.0	Lamar			
5,197.2	5,180.0	Bell Canyon			
5,212.3	5,195.0	Ramsey Sand			
6,133.3	6,110.0	Cherry Canyon			
7,201.6	7,170.0	Brushy Canyon			
8,461.6	8,425.0	Bone Spring Lime			
8,481.6	8,445.0	Upper Avalon			
8,751.7	8,715.0	Middle Avalon			
9,181.8	9,145.0	Lower Avalon			
9,711.9	9,675.0	1st Bone Spring Sand			
9,781.9	9,745.0	2nd Bone Spring Carb			
10,262.0	10,225.0	2nd Bone Spring Sand			
10,892.0	10,855.0	3rd Bone Spring Carb			
11,544.3	11,480.0	3rd Bone Spring Sand			
11,770.2	11,620.0	3rd BS W Sand			
11,869.6	11,655.0	Wolfcamp A X Sand			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
11,362.2	11,321.7	86.7	626.7	FTP @ 11362.2'MD, 100'FNL & 567'FWL
21,885.9	11,640.1	-10,268.3	758.0	LTP @ 21885.9'MD, 100'FSL & 595.3'FWL
21,888.0	11,640.1	-10,270.4	758.3	LAST SVY
21,953.0	11,640.6	-10,335.0	764.7	Projection to TD @ 21953'MD, 33.2'FSL & 601.3'FWL

Checked By: _____ Approved By: _____ Date: _____

Form 3160-5
(June 2015)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.5. Lease Serial No.
NMNM127448

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
BLACK MARLIN FED COM 204H9. API Well No.
30-025-46976-00-X110. Field and Pool or Exploratory Area
WOLFCAMP11. County or Parish, State
LEA COUNTY, NM**SUBMIT IN TRIPLICATE - Other instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

TAP ROCK OPERATING LLC

Contact: BILL RAMSEY

E-Mail: bramsey@taprk.com

3a. Address

602 PARK POINT DRIVE SUITE 200
GOLDEN, CO 80401

3b. Phone No. (include area code)

Ph: 720-360-4028

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 18 T25S R36E NENE 120FNL 1320FEL
32.137344 N Lat, 103.299957 W Lon

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Drilling Operations
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.

8/16/2020: Well spud at 8:30

9/3/2020: TD Reached at 21953 ft MD. TVD measured at 11641 ft.
Plug back measured depth at 21895 ft MD. TVD measured at 11640 ft.
Rig Release on 9/6/2020 at 18:00.

10/22/2020: Pressure test Production casing to 5000 PSI for 30 minutes, good test.
10/23/2020 to 11/8/2020: Perforate from 11843 ft to 21809 ft, 2 SPF, .41 inch holes with 1300 total shots. 50 stage frac with 25,084,567 lbs of 100 mesh sand.
11/9/2020 to 11/12/2020: Drill out plugs
11/13/2020: Ready to produce

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #537259 verified by the BLM Well Information System
For TAP ROCK OPERATING LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 11/16/2020 (21PP0523SE)

Name (Printed/Typed) BILL RAMSEY

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 11/13/2020

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

ACCEPTEDJONATHON SHEPARD
Title PETROELUM ENGINEER

Date 12/16/2020

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office Hobbs

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

Additional data for EC transaction #537259 that would not fit on the form

32. Additional remarks, continued

Formation Tops (Measured Depth):

Capitan Reef: 4099 ft

Cherry Canyon: 6132 ft

Brushy Canyon: 7215 ft

Bonespring Top: 8447 ft

Upper Avalon: 8485 ft

1st Bonespring Sand: 9668 ft

2nd Bonespring Sand: 10264 ft

3rd Bonespring Sand: 11521 ft

Wolfcamp A X: 11843 ft

Request for OCD extension of time to file BLM approved Form 3160-4.

Revisions to Operator-Submitted EC Data for Sundry Notice #537259

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	DRG SR	DRG SR
Lease:	NMNM127448	NMNM127448
Agreement:		
Operator:	TAP ROCK RESOURCES 523 PARK POINT DRIVE SUITE 200 GOLDEN, CO 80401 Ph: 720-360-4028	TAP ROCK OPERATING LLC 602 PARK POINT DRIVE SUITE 200 GOLDEN, CO 80401 Ph: 7204603316
Admin Contact:	BILL RAMSEY REGULATORY ANALYST E-Mail: bramsey@taprk.com Ph: 720-360-4028	BILL RAMSEY REGULATORY ANALYST E-Mail: bramsey@taprk.com Ph: 720-360-4028
Tech Contact:	BILL RAMSEY REGULATORY ANALYST E-Mail: bramsey@taprk.com Ph: 720-360-4028	BILL RAMSEY REGULATORY ANALYST E-Mail: bramsey@taprk.com Ph: 720-360-4028
Location:		
State:	NM	NM
County:	LEA	LEA
Field/Pool:	WOLFCAMP	WOLFCAMP
Well/Facility:	BLACK MARLIN FED COM 204H Sec 18 T25S R36E NENE 120FNL 1320FEL 32.137344 N Lat, 103.299957 W Lon	BLACK MARLIN FED COM 204H Sec 18 T25S R36E NENE 120FNL 1320FEL 32.137344 N Lat, 103.299957 W Lon

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 Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

COMMENTS

Action 17599

COMMENTS

Operator:		OGRID:	Action Number:	Action Type:
TAP ROCK OPERATING, LLC		372043	17599	C-104C
Suite 200 Golden, CO80401				
523 Park Point Drive				
Created By	Comment	Comment Date		
pkautz	GEO REV DONE	02/15/2021		

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Energy, Minerals and Natural Resources
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Santa Fe, NM 87505

CONDITIONS

Action 17599

CONDITIONS OF APPROVAL

Operator: TAP ROCK OPERATING, LLC Suite 200 Golden, CO80401	523 Park Point Drive	OGRID: 372043	Action Number: 17599	Action Type: C-104C
OCD Reviewer plmartinez	Condition None			