

NM OIL CONSERVATION
ARTESIA DISTRICT
OCT 07 2019

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

State of New Mexico
Energy, Minerals & Natural Resources
Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Sante Fe, NM 87505

RECEIVED

☒ AMENDED REPORT

☒ AS DRILLED

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 399-6161 Fax: (575) 399-0720
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

WELL LOCATION AND ACREAGE DEDICATION PLAT

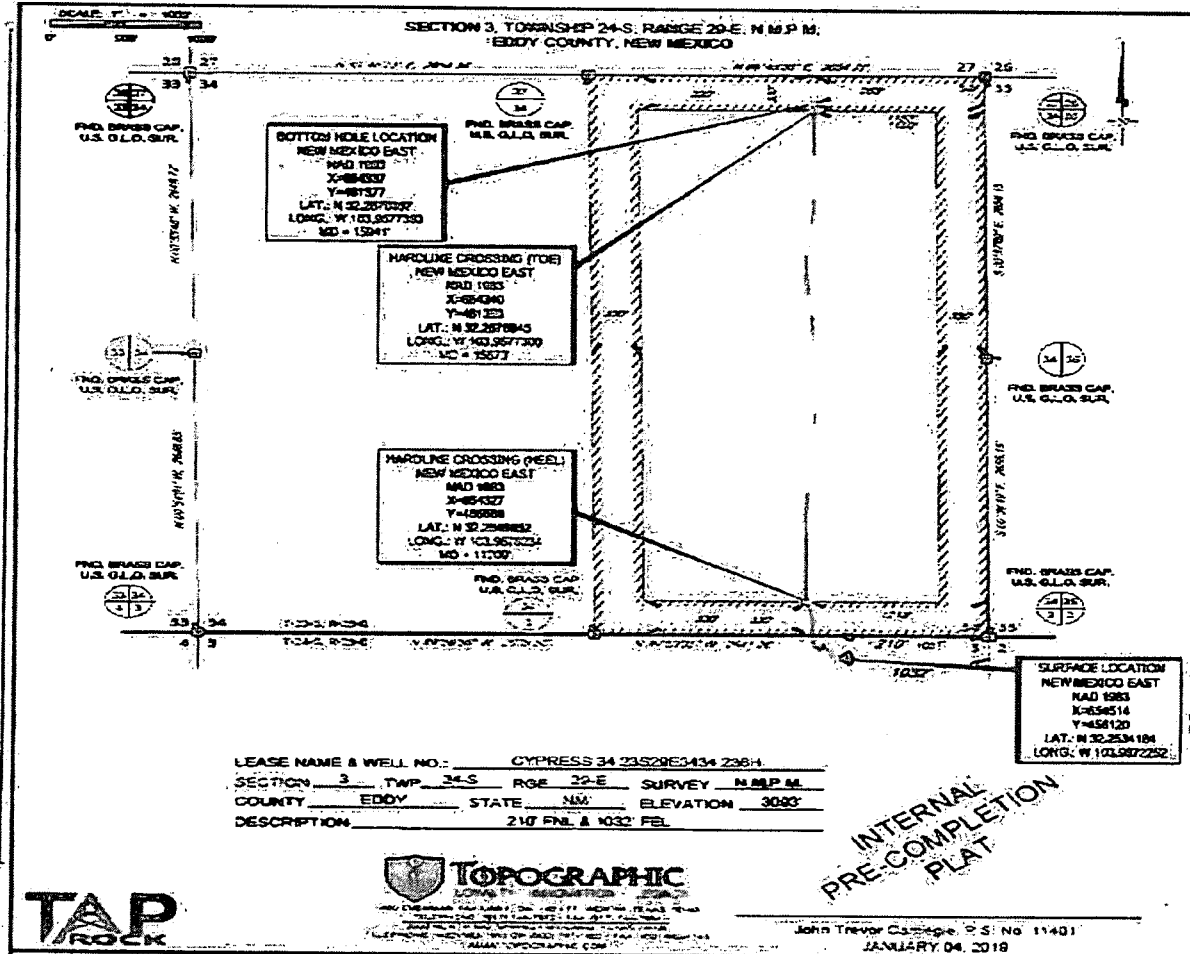
API Number 30-015-45262		Pool Code 98220		Pool Name PURPLE SAGE, WOLFCAMP	
Property Code 322450		Property Name CYPRESS 34 23S29E3434		Well Number #236H	
OCRID No. 372043		Operator Name TAP ROCK OPERATING, LLC.		Elevation 3093'	

10 Surface Location									
UL or lot no. A	Section 3	Township 24-S	Range 29-E	Lot No. 1	Feet from the 210'	North/South line NORTH	Feet from the 1032'	East/West line EAST	County EDDY

UL or lot no. A	Section 34	Township 23-S	Range 29-E	Lot No. -	Feet from the 200'	North/South line NORTH	Feet from the 1170'	East/West line EAST	County EDDY
--------------------	---------------	------------------	---------------	--------------	-----------------------	---------------------------	------------------------	------------------------	----------------

Dedicated Acres 320	Joint or lease -	Consolidation Code -	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.





PRODIRECTIONAL

RECEIVED

SEP 26 2019

**TAP
ROCK**

DISTRICT 7 - ARTESIA O.C.D.

Cypress 34 No. 236H
Eddy County, NM

January 17, 2019

Job No. LNM5188118
API No. 30-015-45262

Survey Completion Report



PRODIRECTIONAL

Survey Certification Letter

January 07, 2019



Operator Name: Tap Rock Operating
Well Name: Cypress 34 No. 236H
County/Parish: Eddy County,
State: NM
Rig Name: H&P 422
Job Number: LNM5188118

This is to certify the surveys performed on the referenced well by Professional Directional Ent., Inc. are true and correct MWD Surveys, data provided as follows:

Surveyor	Surveyed Depths	Projection to Bit	Dates Performed	Type of Survey
ProDirectional	154' MD – 15,942' MD	16,004' MD	11/21/18 – 12/08/18	MWD

Sincerely,

Mike Coats
Regulatory Specialist
Professional Directional

850 Conroe Park West Drive | Conroe, TX 77303 | Phone: 936.441.7266

prodirectional.com

The Standard of Excellence in Directional Supervision



Tap Rock Operating, LLC

Eddy County, NM

Cypress 34

No. 236H

OH

Survey: ProDirectional

Survey Report

07 January, 2019





ProDirectional
Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

Project		Eddy County, NM (NAD 83)	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Cypress 34				
Site Position:		Northing:	456,089.00	usft	Latitude:	32.253335
From:	Map	Easting:	654,374.00	usft	Longitude:	-103.967678
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16	"	Grid Convergence:	0.20 °

Well	236H					
Well Position	+N/-S	0.00 usft	Northing:	456,120.00 usft	Latitude:	32.253419
	+E/-W	0.00 usft	Easting:	654,514.00 usft	Longitude:	-103.967224
Position Uncertainty	0.00 usft		Wellhead Elevation:	usft	Ground Level:	3,093.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	HDGM	12/3/2018	7.03	60.02	47,960.40

Design:	OH 154'-15942' PTB 16004'			
Audit Notes:				
Version:	1.0	Phase:	ACTUAL	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	359.39

Survey Program		Date 1/7/2019		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
154.00	16,004.00	Pro MWD (OH)	MWD+HDGM	OWSG MWD + HRGM



ProDirectional Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	456,120.00	654,514.00	
154.00	0.30	182.40	154.00	-0.40	-0.40	-0.02	0.40	182.40	456,119.60	654,513.98	
Pro MWD First Survey: 154' MD											
251.00	0.60	176.70	251.00	-1.16	-1.16	0.00	1.16	179.92	456,118.84	654,514.00	
341.00	0.50	176.60	340.99	-2.03	-2.03	0.05	2.03	178.53	456,117.97	654,514.05	
372.00	0.80	132.50	371.99	-2.31	-2.31	0.22	2.32	174.56	456,117.69	654,514.22	
457.00	0.80	134.50	456.98	-3.14	-3.12	1.08	3.31	160.92	456,116.88	654,515.08	
613.00	1.40	142.70	612.95	-5.44	-5.40	3.01	6.19	150.86	456,114.60	654,517.01	
793.00	1.50	143.20	792.89	-9.10	-9.04	5.76	10.72	147.51	456,110.96	654,519.76	
973.00	2.00	152.30	972.81	-13.80	-13.71	8.63	16.20	147.81	456,106.29	654,522.63	
1,155.00	2.00	153.90	1,154.70	-19.49	-19.37	11.50	22.53	149.30	456,100.63	654,525.50	
1,336.00	2.30	150.50	1,335.57	-25.52	-25.37	14.68	29.31	149.95	456,094.63	654,528.68	
1,525.00	0.50	346.70	1,524.53	-28.04	-27.87	16.36	32.31	149.59	456,092.13	654,530.36	
1,715.00	1.60	326.30	1,714.50	-25.01	-24.85	14.69	28.87	149.41	456,095.15	654,528.69	
1,904.00	3.70	315.60	1,903.28	-18.39	-18.30	8.96	20.38	153.91	456,101.70	654,522.96	
2,093.00	2.50	332.20	2,092.01	-10.32	-10.30	2.77	10.66	164.93	456,109.70	654,516.77	
2,282.00	3.70	324.00	2,280.73	-1.69	-1.72	-2.73	3.23	237.89	456,118.28	654,511.27	
2,471.00	2.50	337.80	2,469.45	7.12	7.03	-7.88	10.56	311.77	456,127.03	654,506.12	
2,660.00	2.90	336.50	2,658.24	15.36	15.24	-11.34	18.99	323.34	456,135.24	654,502.66	
2,849.00	3.30	316.80	2,846.97	23.77	23.59	-16.97	29.06	324.26	456,143.59	654,497.03	
3,037.00	3.20	327.50	3,034.67	32.20	31.96	-23.49	39.66	323.68	456,151.96	654,490.51	
3,217.00	2.50	328.40	3,214.44	39.84	39.54	-28.25	48.59	324.45	456,159.54	654,485.75	
3,302.00	2.80	332.20	3,299.35	43.27	42.95	-30.19	52.50	324.90	456,162.95	654,483.81	
3,491.00	2.60	343.00	3,488.15	51.49	51.14	-33.60	61.18	326.69	456,171.14	654,480.40	
3,680.00	2.80	333.20	3,676.94	59.75	59.36	-36.93	69.91	328.11	456,179.36	654,477.07	
3,870.00	2.80	338.60	3,866.71	68.25	67.82	-40.72	79.10	329.02	456,187.82	654,473.28	
4,058.00	2.50	334.10	4,054.51	76.25	75.78	-44.18	87.72	329.76	456,195.78	654,469.82	



ProDirectional
Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

Survey											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
4,247.00	3.50	313.80	4,243.25	84.01	83.48	-50.15	97.39	329.01	456,203.48	654,463.85	
4,436.00	3.50	306.50	4,431.90	91.53	90.91	-58.95	108.35	327.04	456,210.91	654,455.05	
4,625.00	4.50	343.40	4,620.47	102.14	101.45	-65.71	120.87	327.07	456,221.45	654,448.29	
4,813.00	4.00	340.90	4,807.95	115.45	114.71	-69.96	134.36	328.62	456,234.71	654,444.04	
5,002.00	3.90	340.40	4,996.50	127.78	127.00	-74.27	147.12	329.68	456,247.00	654,439.73	
5,191.00	3.10	314.00	5,185.16	137.45	136.60	-80.11	158.36	329.61	456,256.60	654,433.89	
5,380.00	0.50	203.40	5,374.07	140.28	139.40	-84.11	162.80	328.89	456,259.40	654,429.89	
5,569.00	0.80	228.80	5,563.06	138.67	137.77	-85.43	162.11	328.20	456,257.77	654,428.57	
5,757.00	0.70	179.60	5,751.04	136.67	135.76	-86.41	160.92	327.52	456,255.76	654,427.59	
5,946.00	0.90	185.00	5,940.03	134.04	133.12	-86.53	158.77	326.98	456,253.12	654,427.47	
6,135.00	1.50	164.80	6,128.98	130.17	129.26	-86.01	155.26	326.36	456,249.26	654,427.99	
6,325.00	1.90	157.30	6,318.90	124.84	123.95	-84.14	149.81	325.83	456,243.95	654,429.86	
6,514.00	1.30	171.30	6,507.83	119.81	118.94	-82.61	144.82	325.22	456,238.94	654,431.39	
6,703.00	0.80	178.30	6,696.79	116.37	115.50	-82.25	141.79	324.55	456,235.50	654,431.75	
6,892.00	1.20	193.30	6,885.77	113.13	112.26	-82.66	139.41	323.63	456,232.26	654,431.34	
7,081.00	1.20	216.40	7,074.73	109.63	108.74	-84.29	137.59	322.22	456,228.74	654,429.71	
7,270.00	2.30	232.00	7,263.63	105.75	104.81	-88.46	137.15	319.84	456,224.81	654,425.54	
7,459.00	4.20	210.70	7,452.33	97.53	96.52	-94.98	135.42	315.46	456,216.52	654,419.02	
7,648.00	3.20	195.30	7,640.94	86.54	85.49	-99.90	131.49	310.55	456,205.49	654,414.10	
7,836.00	1.00	283.80	7,828.83	81.90	80.81	-102.88	130.83	308.15	456,200.81	654,411.12	
8,025.00	1.40	285.20	8,017.79	82.94	81.81	-106.71	134.47	307.48	456,201.81	654,407.29	
8,214.00	0.80	158.40	8,206.77	82.34	81.19	-108.46	135.48	306.82	456,201.19	654,405.54	
8,402.00	0.80	344.20	8,394.76	82.38	81.23	-108.33	135.40	306.87	456,201.23	654,405.67	
8,591.00	2.80	328.50	8,583.66	87.62	86.44	-111.10	140.77	307.88	456,206.44	654,402.90	
8,780.00	2.40	316.20	8,772.47	94.46	93.23	-116.25	149.02	308.73	456,213.23	654,397.75	
8,970.00	1.00	347.10	8,962.38	98.99	97.72	-119.38	154.27	309.30	456,217.72	654,394.62	
9,159.00	1.90	269.20	9,151.33	100.59	99.28	-122.88	157.98	308.94	456,219.28	654,391.12	



ProDirectional Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)
9,348.00	1.00	304.50	9,340.27	101.52	100.17	-127.37	162.04	308.18	456,220.17	654,386.63
9,537.00	0.70	324.50	9,529.25	103.42	102.05	-129.40	164.80	308.26	456,222.05	654,384.60
9,727.00	0.90	292.70	9,719.24	104.96	103.57	-131.45	167.35	308.23	456,223.57	654,382.55
9,916.00	0.80	289.10	9,908.22	106.00	104.57	-134.07	170.03	307.95	456,224.57	654,379.93
10,105.00	1.30	234.80	10,097.19	105.22	103.77	-137.06	171.92	307.13	456,223.77	654,376.94
10,294.00	1.00	231.80	10,286.15	103.00	101.51	-140.11	173.02	305.92	456,221.51	654,373.89
10,363.00	1.20	242.60	10,355.14	102.31	100.81	-141.23	173.52	305.52	456,220.81	654,372.77
10,468.00	1.90	245.40	10,460.10	101.10	99.58	-143.79	174.90	304.70	456,219.58	654,370.21
10,515.00	4.30	338.60	10,507.05	102.43	100.90	-145.14	176.76	304.81	456,220.90	654,368.86
10,562.00	12.20	355.50	10,553.53	109.05	107.50	-146.17	181.45	306.33	456,227.50	654,367.83
10,656.00	22.70	2.30	10,643.09	137.15	135.60	-146.22	199.42	312.84	456,255.60	654,367.78
10,750.00	34.60	358.40	10,725.43	182.12	180.57	-146.24	232.36	321.00	456,300.57	654,367.76
10,843.00	45.60	358.10	10,796.46	241.92	240.35	-148.09	282.31	328.36	456,360.35	654,365.91
10,936.00	52.80	354.10	10,857.21	312.12	310.51	-153.00	346.16	333.77	456,430.51	654,361.00
10,983.00	52.00	353.30	10,885.88	349.17	347.52	-157.09	381.38	335.68	456,467.52	654,356.91
11,030.00	52.60	352.40	10,914.62	386.12	384.42	-161.72	417.05	337.18	456,504.42	654,352.28
11,077.00	56.00	351.60	10,942.05	423.96	422.21	-167.03	454.05	338.42	456,542.21	654,346.97
11,124.00	61.70	351.20	10,966.35	463.78	461.96	-173.05	493.31	339.46	456,581.96	654,340.95
11,171.00	68.10	349.50	10,986.28	505.79	503.90	-180.20	535.15	340.32	456,623.90	654,333.80
11,218.00	72.00	350.00	11,002.31	549.33	547.36	-188.05	578.77	341.04	456,667.36	654,325.95
11,265.00	76.10	354.10	11,015.23	594.13	592.10	-194.29	623.16	341.83	456,712.10	654,319.71
11,311.00	78.80	358.90	11,025.23	638.96	636.90	-197.02	666.67	342.81	456,756.90	654,316.98
11,358.00	79.80	0.00	11,033.96	685.14	683.08	-197.46	711.05	343.88	456,803.08	654,316.54
11,405.00	86.90	0.50	11,039.39	731.79	729.73	-197.25	755.92	344.87	456,849.73	654,316.75
11,500.00	90.40	1.10	11,041.63	826.72	824.68	-195.93	847.64	346.64	456,944.68	654,318.07
11,594.00	89.60	358.80	11,041.63	920.71	918.67	-196.01	939.35	347.96	457,038.67	654,317.99
11,689.00	89.20	357.60	11,042.63	1,015.68	1,013.62	-198.99	1,032.97	348.89	457,133.62	654,315.01



ProDirectional Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

Survey:											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
11,783.00	92.80	0.80	11,040.99	1,109.64	1,107.57	-200.31	1,125.54	349.75	457,227.57	654,313.69	
11,877.00	94.30	359.50	11,035.17	1,203.44	1,201.38	-200.06	1,217.93	350.55	457,321.38	654,313.94	
11,972.00	93.40	359.60	11,028.79	1,298.23	1,296.16	-200.80	1,311.63	351.19	457,416.16	654,313.20	
12,066.00	90.50	2.00	11,025.59	1,392.13	1,390.08	-199.49	1,404.33	351.83	457,510.08	654,314.51	
12,158.00	91.30	3.00	11,024.14	1,483.98	1,481.98	-195.48	1,494.82	352.49	457,601.98	654,318.52	
12,254.00	88.80	5.50	11,024.06	1,579.62	1,577.70	-188.37	1,588.91	353.19	457,697.70	654,325.63	
12,348.00	89.30	5.20	11,025.62	1,673.10	1,671.28	-179.60	1,680.90	353.87	457,791.28	654,334.40	
12,442.00	90.20	6.60	11,026.03	1,766.49	1,764.78	-169.94	1,772.94	354.50	457,884.78	654,344.06	
12,536.00	90.50	5.80	11,025.45	1,859.82	1,858.23	-159.79	1,865.08	355.09	457,978.23	654,354.21	
12,629.00	87.90	2.10	11,026.75	1,952.50	1,950.97	-153.38	1,956.99	355.50	458,070.97	654,360.62	
12,724.00	88.40	359.60	11,029.82	2,047.41	2,045.91	-151.98	2,051.54	355.75	458,165.91	654,362.02	
12,818.00	91.20	359.40	11,030.15	2,141.40	2,139.89	-152.80	2,145.34	355.92	458,259.89	654,361.20	
12,912.00	89.80	359.00	11,029.33	2,235.39	2,233.88	-154.11	2,239.19	356.05	458,353.88	654,359.89	
13,006.00	91.20	1.30	11,028.51	2,329.37	2,327.86	-153.86	2,332.94	356.22	458,447.86	654,360.14	
13,100.00	88.80	0.80	11,028.51	2,423.32	2,421.84	-152.14	2,426.61	356.41	458,541.84	654,361.86	
13,195.00	88.50	359.80	11,030.75	2,518.28	2,516.81	-151.64	2,521.38	356.55	458,636.81	654,362.36	
13,288.00	90.60	0.00	11,031.48	2,611.27	2,609.80	-151.80	2,614.21	356.67	458,729.80	654,362.20	
13,383.00	90.50	358.40	11,030.56	2,706.26	2,704.79	-153.13	2,709.12	356.76	458,824.79	654,360.87	
13,476.00	90.30	357.60	11,029.92	2,799.23	2,797.73	-156.38	2,802.09	356.80	458,917.73	654,357.62	
13,570.00	90.00	357.40	11,029.67	2,893.18	2,891.64	-160.48	2,896.09	356.82	459,011.64	654,353.52	
13,664.00	90.90	358.80	11,028.93	2,987.15	2,985.58	-163.59	2,990.06	356.86	459,105.58	654,350.41	
13,759.00	90.30	355.70	11,027.94	3,082.07	3,080.45	-168.15	3,085.04	356.88	459,200.45	654,345.85	
13,853.00	90.40	355.40	11,027.36	3,175.86	3,174.17	-175.44	3,179.01	356.84	459,294.17	654,338.56	
13,947.00	89.80	354.20	11,027.20	3,269.55	3,267.78	-183.96	3,272.95	356.78	459,387.78	654,330.04	
14,042.00	90.40	354.80	11,027.03	3,364.20	3,362.34	-193.07	3,367.88	356.71	459,482.34	654,320.93	
14,136.00	91.30	353.40	11,025.64	3,457.79	3,455.83	-202.73	3,461.77	356.64	459,575.83	654,311.27	
14,230.00	93.70	356.00	11,021.54	3,551.37	3,549.32	-211.40	3,555.61	356.59	459,669.32	654,302.60	



ProDirectional
Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

Survey:											
MD (usft)	Inc (°)	Azi (azimuth) (°)	TVD (usft)	V. Sec (usft)	N/S (usft)	E/W (usft)	Closure Distance (usft)	Closure Azimuth (°)	Northing (usft)	Easting (usft)	
14,324.00	95.40	358.40	11,014.08	3,645.00	3,642.90	-215.98	3,649.30	356.61	459,762.90	654,298.02	
14,418.00	92.50	0.90	11,007.60	3,738.75	3,736.66	-216.55	3,742.93	356.68	459,856.66	654,297.45	
14,512.00	89.90	4.10	11,005.63	3,832.58	3,830.53	-212.45	3,836.42	356.83	459,950.53	654,301.55	
14,606.00	87.20	5.60	11,008.01	3,926.11	3,924.15	-204.51	3,929.48	357.02	460,044.15	654,309.49	
14,699.00	87.30	6.40	11,012.48	4,018.38	4,016.54	-194.80	4,021.26	357.22	460,136.54	654,319.20	
14,794.00	87.80	6.50	11,016.54	4,112.58	4,110.85	-184.14	4,114.97	357.44	460,230.85	654,329.86	
14,888.00	87.50	6.10	11,020.39	4,205.81	4,204.20	-173.83	4,207.79	357.63	460,324.20	654,340.17	
14,982.00	86.60	2.60	11,025.23	4,299.32	4,297.79	-166.71	4,301.02	357.78	460,417.79	654,347.29	
15,077.00	87.10	1.20	11,030.45	4,394.09	4,392.59	-163.57	4,395.64	357.87	460,512.59	654,350.43	
15,171.00	89.40	0.50	11,033.32	4,488.00	4,486.53	-162.17	4,489.46	357.93	460,606.53	654,351.83	
15,265.00	91.20	0.10	11,032.83	4,581.99	4,580.52	-161.68	4,583.38	357.98	460,700.52	654,352.32	
15,359.00	91.20	359.20	11,030.86	4,675.96	4,674.50	-162.25	4,677.32	358.01	460,794.50	654,351.75	
15,453.00	92.10	358.90	11,028.15	4,769.92	4,768.45	-163.81	4,771.26	358.03	460,888.45	654,350.19	
15,547.00	93.20	358.90	11,023.81	4,863.82	4,862.33	-165.62	4,865.15	358.05	460,982.33	654,348.38	
15,641.00	93.40	358.80	11,018.40	4,957.66	4,956.15	-167.50	4,958.98	358.06	461,076.15	654,346.50	
15,735.00	93.80	358.70	11,012.49	5,051.47	5,049.95	-169.55	5,052.79	358.08	461,169.95	654,344.45	
15,829.00	92.30	358.10	11,007.49	5,145.32	5,143.77	-172.17	5,146.65	358.08	461,263.77	654,341.83	
15,923.00	90.90	357.30	11,004.87	5,239.23	5,237.66	-175.94	5,240.61	358.08	461,357.66	654,338.06	
15,942.00	91.10	357.30	11,004.54	5,258.22	5,256.63	-176.83	5,259.61	358.07	461,376.63	654,337.17	
Final Survey, 15942.00' MD, 11004.54' TVD											
16,004.00	91.10	357.30	11,003.35	5,320.17	5,318.55	-179.75	5,321.59	358.06	461,438.55	654,334.25	
PTB, 16004.00' MD, 11003.35' TVD											



ProDirectional
Survey Report



Company:	Tap Rock Operating, LLC	Local Co-ordinate Reference:	Well 236H
Project:	Eddy County, NM (NAD 83)	TVD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Site:	Cypress 34	MD Reference:	Well @ 3119.50usft (GL: 3093' + KB: 26.5)
Well:	236H	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	OH 154'-15942' PTB 16004'	Database:	WellPlanner1

Design Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
154.00	154.00	-0.40	-0.02	Pro MWD First Survey: 154' MD
15,942.00	11,004.54	5,256.63	-176.83	Final Survey, 15942.00' MD, 11004.54' TVD
16,004.00	11,003.35	5,318.55	-179.75	PTB, 16004.00' MD, 11003.35' TVD