

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

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 25-47832	⁵ Pool Name WC-025 G-09 S243532M;WOLFBONE		⁶ Pool Code 98098
⁷ Property Code 328302	⁸ Property Name MULVA FED COM		⁹ Well Number 213H

II. ¹⁰ Surface Location

Ul or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South Line	Feet from the	East/West line	County
O	27	24-S	35-E	-	629'	SOUTH	2085'	EAST	LEA

¹¹ Bottom Hole Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	3	25-S	35-E	-	2640'	NORTH	2328'	EAST	LEA
¹² Lse Code F	¹³ Producing Method Code F	¹⁴ Gas Connection Date 2/23/2021	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 11/5/2020	²² Ready Date 2/13/2021	²³ TD 20596'	²⁴ PBTD 20529'	²⁵ Perforations 12767' - 20459'	²⁶ DHC, MC
²⁷ Hole Size	²⁸ Casing & Tubing Size	²⁹ Depth Set	³⁰ Sacks Cement		
17.5"	13.375"	1019'	960 sks		
12.25"	9.625"	5326'	1609 sks		
8.75"	7.625"	11628'	562 sks		
6.75"	5.5"	20572'	1210 sks		

V. Well Test Data

³¹ Date New Oil 2/23/2021	³² Gas Delivery Date 2/23/2021	³³ Test Date 3/6/2021	³⁴ Test Length 24 hrs	³⁵ Tbg. Pressure 0	³⁶ Csg. Pressure 1100
³⁷ Choke Size 48/64	³⁸ Oil 2703	³⁹ Water 4185	⁴⁰ Gas 1861		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:  Printed name: Bill Ramsey Title: Regulatory Analyst E-mail Address: bramsey@taprk.com Date: 3/8/2021	Phone: 720-360-4028	OIL CONSERVATION DIVISION	
	Approved by: PATRICIA MARTINEZ		
	Title: PETROLEUM SPECIALIST		
	Approval Date: 6/4/2021		

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

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

FORM C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

☐ AMENDED REPORT
AS-DRILLED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-47832	² Pool Code 98098	³ Pool Name WC-025 G-09 S243532M:WOLFBONE
⁴ Property Code 328302	⁵ Property Name MULVA FED COM	⁶ Well Number 213H
⁷ OGRID No. 372043	⁸ Operator Name TAP ROCK OPERATING, LLC.	⁹ Elevation 3287'

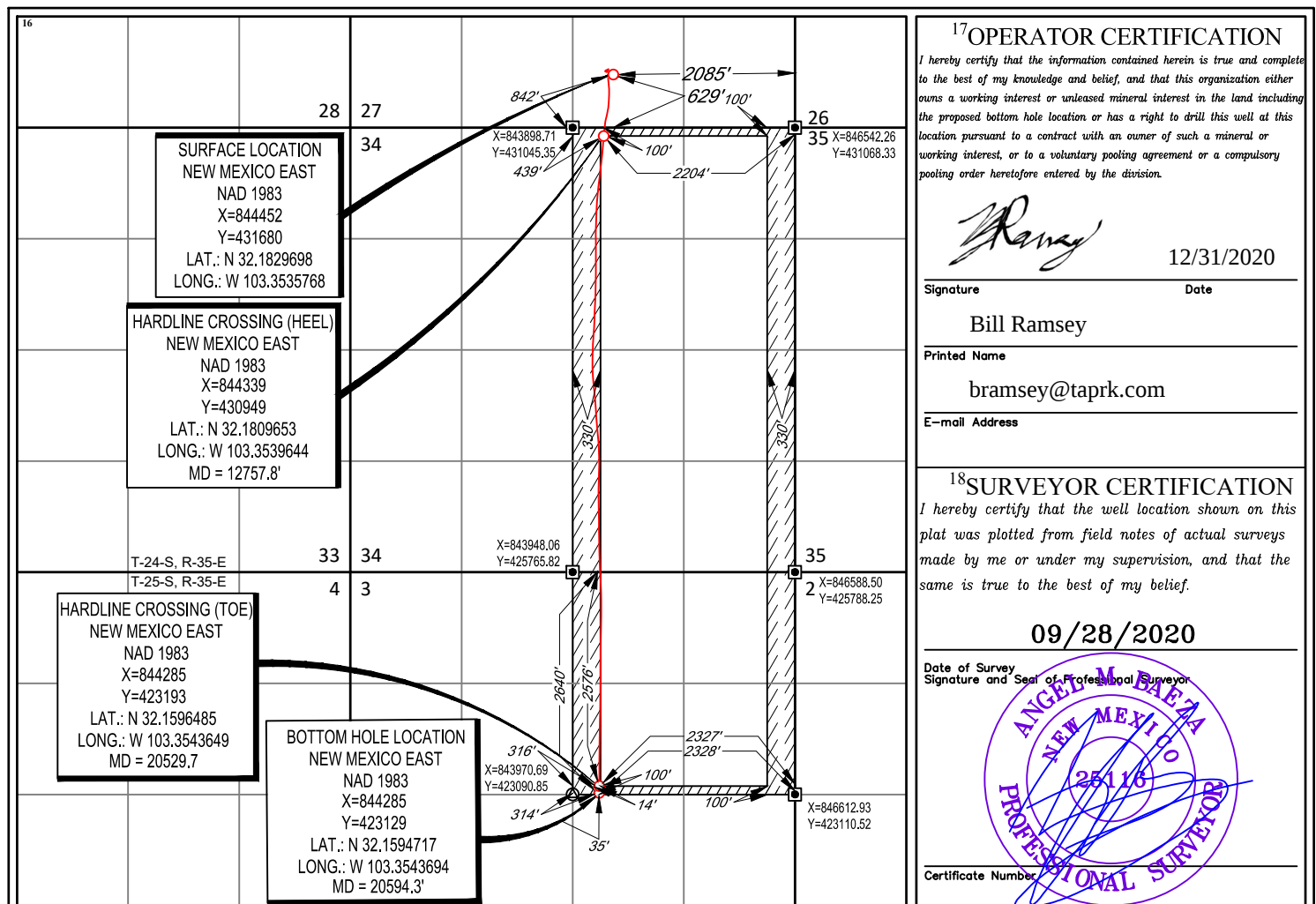
¹⁰Surface Location

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O	27	24-S	35-E	-	629'	SOUTH	2085'	EAST	LEA

¹¹Bottom Hole Location If Different From Surface

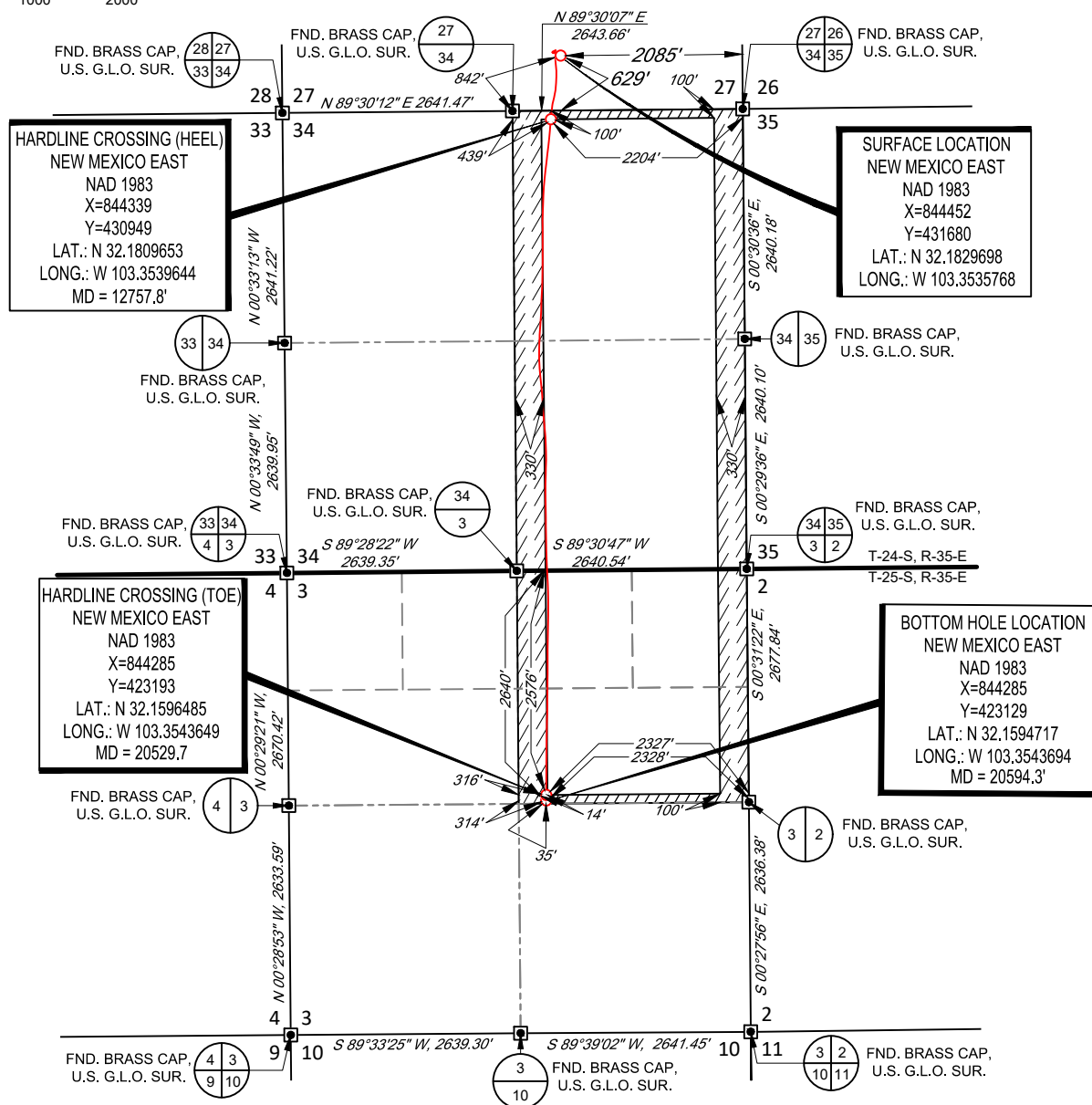
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	3	25-S	35-E	-	2640'	NORTH	2328'	EAST	LEA
¹² Dedicated Acres 481.78	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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.



SCALE: 1" = 2000'
0' 1000' 2000'

SECTION 27, TOWNSHIP 24-S, RANGE 35-E, N.M.P.M.
LEA COUNTY, NEW MEXICO



**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**

Angel M. Baeza, P.S. No. 25116
December 22, 2020

MULVA FED COM 213H PRE-COMPLETION	REVISION:	
	INT	DATE
DATE: 12/21/2020		
FILE: C_MULVA_FED_COM_213H		
DRAWN BY: A.V.F.		
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.



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Mulva Fed) Sec-27_T-24-S_R-35-E
Mulva Fed Com #213H**

OWB

Design: AWB

Standard Survey Report

02 December, 2020





Operator: Tap Rock Resources, LLC.
Well Name: Mulva Fed Com #213H
County: Lea
State: New Mexico
Rig Name: H&P 466
Job Number: 30-025-47832

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: 173' MD – 20,527' MD
Projection to Bit: 20,596' MD
Dates Performed: 11/05/2020 – 12/01/2020
Type of Survey: MWD

Sincerely,

A handwritten signature in blue ink, appearing to read "Jim", with a stylized flourish at the end.

James Burleson
Vice President of MWD Operations
Intrepid Directional Drilling Specialists





Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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	(Mulva Fed) Sec-27_T-24-S_R-35-E		
Site Position:		Northing:	431,446.00 usft
From:	Map	Easting:	841,909.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 56.609 N
		Longitude:	103° 21' 42.490 W
		Grid Convergence:	0.52 °

Well	Mulva Fed Com #213H		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	usft
		Latitude:	32° 10' 58.686 N
		Longitude:	103° 21' 12.878 W
		Ground Level:	3,285.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	10/13/20	6.49	59.77	47,684.60205409

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	179.49	

Survey Program	Date	12/02/20			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
173.0	20,596.0	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	
173.0	0.79	236.24	173.0	-0.7	-1.0	0.7	0.46	0.46	0.00	
233.0	0.84	239.67	233.0	-1.1	-1.7	1.1	0.12	0.08	5.72	
326.0	0.97	250.22	326.0	-1.7	-3.0	1.7	0.23	0.14	11.34	
417.0	0.75	264.02	417.0	-2.0	-4.4	2.0	0.33	-0.24	15.16	
507.0	0.88	285.29	507.0	-1.9	-5.6	1.9	0.36	0.14	23.63	
597.0	0.92	304.45	596.9	-1.3	-6.9	1.3	0.34	0.04	21.29	
687.0	0.97	302.16	686.9	-0.5	-8.1	0.4	0.07	0.06	-2.54	
782.0	0.79	320.97	781.9	0.4	-9.2	-0.5	0.36	-0.19	19.80	
863.0	0.92	322.29	862.9	1.4	-10.0	-1.5	0.16	0.16	1.63	



Intrepid Survey Report



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Well:	Mulva Fed Com #213H	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)
957.0	0.79	335.82	956.9	2.6	-10.7	-2.6	0.25	-0.14	14.39
970.1	0.71	332.89	970.0	2.7	-10.8	-2.8	0.71	-0.64	-22.39
Rustler Anhydrite									
971.0	0.70	332.66	970.9	2.7	-10.8	-2.8	0.71	-0.64	-25.26
1,046.0	1.10	327.50	1,045.9	3.7	-11.4	-3.8	0.54	0.53	-6.88
1,143.0	0.75	8.87	1,142.9	5.1	-11.8	-5.2	0.75	-0.36	42.65
1,237.0	0.57	25.13	1,236.9	6.2	-11.5	-6.3	0.27	-0.19	17.30
1,332.0	0.57	340.92	1,331.9	7.0	-11.4	-7.1	0.45	0.00	-46.54
1,350.1	0.64	342.86	1,350.0	7.2	-11.5	-7.3	0.39	0.38	10.73
Top Salt									
1,424.0	0.92	347.78	1,423.9	8.2	-11.7	-8.3	0.39	0.38	6.65
1,519.0	0.75	330.46	1,518.9	9.5	-12.2	-9.6	0.32	-0.18	-18.23
1,614.0	0.79	352.96	1,613.8	10.7	-12.6	-10.8	0.32	0.04	23.68
1,709.0	0.13	290.38	1,708.8	11.4	-12.8	-11.5	0.78	-0.69	-65.87
1,803.0	0.48	15.99	1,802.8	11.8	-12.8	-11.9	0.52	0.37	91.07
1,897.0	0.31	328.79	1,896.8	12.4	-12.8	-12.5	0.38	-0.18	-50.21
1,991.0	0.31	56.33	1,990.8	12.7	-12.7	-12.8	0.46	0.00	93.13
2,085.0	0.75	52.99	2,084.8	13.2	-12.0	-13.4	0.47	0.47	-3.55
2,179.0	0.66	29.26	2,178.8	14.1	-11.2	-14.2	0.32	-0.10	-25.24
2,274.0	0.79	45.17	2,273.8	15.0	-10.5	-15.1	0.25	0.14	16.75
2,368.0	0.44	61.08	2,367.8	15.7	-9.7	-15.7	0.41	-0.37	16.93
2,463.0	0.26	83.58	2,462.8	15.9	-9.2	-15.9	0.23	-0.19	23.68
2,558.0	0.84	296.27	2,557.8	16.2	-9.6	-16.3	1.12	0.61	-155.06
2,652.0	1.27	293.11	2,651.8	16.9	-11.2	-17.0	0.46	0.46	-3.36
2,746.0	0.44	348.30	2,745.8	17.7	-12.2	-17.8	1.15	-0.88	58.71
2,840.0	1.41	301.99	2,839.8	18.6	-13.3	-18.8	1.22	1.03	-49.27
2,935.0	3.21	303.39	2,934.7	20.7	-16.5	-20.9	1.90	1.89	1.47
3,029.0	3.60	300.84	3,028.5	23.7	-21.2	-23.9	0.44	0.41	-2.71
3,124.0	3.21	313.85	3,123.4	27.1	-25.7	-27.3	0.91	-0.41	13.69
3,217.0	2.86	318.68	3,216.2	30.6	-29.1	-30.9	0.47	-0.38	5.19
3,312.0	2.33	322.11	3,311.1	33.9	-31.9	-34.2	0.58	-0.56	3.61
3,407.0	2.15	285.55	3,406.1	35.9	-34.8	-36.2	1.49	-0.19	-38.48
3,502.0	2.42	263.23	3,501.0	36.1	-38.5	-36.5	0.97	0.28	-23.49
3,597.0	2.15	247.49	3,595.9	35.2	-42.1	-35.6	0.72	-0.28	-16.57
3,691.0	2.33	254.70	3,689.8	34.0	-45.6	-34.5	0.36	0.19	7.67
3,787.0	1.63	231.67	3,785.8	32.7	-48.5	-33.1	1.09	-0.73	-23.99
3,881.0	1.45	255.58	3,879.8	31.6	-50.7	-32.0	0.70	-0.19	25.44
3,975.0	1.10	288.80	3,973.7	31.6	-52.7	-32.0	0.85	-0.37	35.34
4,071.0	1.05	320.09	4,069.7	32.5	-54.2	-33.0	0.61	-0.05	32.59
4,164.0	1.14	324.84	4,162.7	33.9	-55.3	-34.4	0.14	0.10	5.11
4,259.0	1.80	317.81	4,257.7	35.8	-56.8	-36.3	0.72	0.69	-7.40
4,353.0	1.76	314.55	4,351.6	37.9	-58.8	-38.4	0.12	-0.04	-3.47
4,448.0	2.20	314.20	4,446.6	40.2	-61.2	-40.8	0.46	0.46	-0.37
4,540.0	2.11	330.73	4,538.5	42.9	-63.3	-43.5	0.68	-0.10	17.97



Intrepid Survey Report



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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)
4,636.0	1.71	5.88	4,634.4	45.9	-64.0	-46.5	1.27	-0.42	36.61
4,730.0	1.63	47.28	4,728.4	48.2	-62.9	-48.8	1.26	-0.09	44.04
4,751.6	1.80	51.72	4,750.0	48.6	-62.4	-49.2	1.00	0.78	20.55
Base Salt									
4,824.0	2.42	61.78	4,822.4	50.0	-60.1	-50.6	1.00	0.86	13.90
4,919.0	1.58	38.84	4,917.3	52.0	-57.5	-52.5	1.20	-0.88	-24.15
5,013.0	1.36	349.45	5,011.3	54.1	-56.9	-54.6	1.32	-0.23	-52.54
5,108.0	1.54	6.59	5,106.2	56.5	-57.0	-57.0	0.49	0.19	18.04
5,203.0	1.19	351.56	5,201.2	58.7	-57.0	-59.2	0.52	-0.37	-15.82
5,256.8	1.13	349.87	5,255.0	59.8	-57.2	-60.3	0.13	-0.11	-3.15
Delaware Mountain Gp									
5,261.8	1.12	349.70	5,260.0	59.9	-57.2	-60.4	0.13	-0.11	-3.33
Lamar									
5,266.8	1.12	349.53	5,265.0	60.0	-57.2	-60.5	0.13	-0.11	-3.37
Bell Canyon									
5,271.8	1.11	349.36	5,270.0	60.1	-57.2	-60.6	0.13	-0.11	-3.40
Ramsey Sand									
5,282.0	1.10	349.01	5,280.2	60.3	-57.2	-60.8	0.13	-0.11	-3.45
5,382.0	1.10	359.47	5,380.2	62.2	-57.4	-62.7	0.20	0.00	10.46
5,476.0	0.79	301.99	5,474.2	63.4	-58.0	-64.0	1.01	-0.33	-61.15
5,570.0	2.20	240.37	5,568.1	62.9	-60.1	-63.4	2.08	1.50	-65.55
5,665.0	2.07	241.43	5,663.1	61.2	-63.2	-61.7	0.14	-0.14	1.12
5,761.0	2.11	239.41	5,759.0	59.4	-66.3	-60.0	0.09	0.04	-2.10
5,855.0	1.93	240.46	5,852.9	57.8	-69.1	-58.4	0.20	-0.19	1.12
5,949.0	1.93	234.75	5,946.9	56.1	-71.8	-56.7	0.20	0.00	-6.07
6,043.0	1.67	241.96	6,040.8	54.5	-74.3	-55.2	0.37	-0.28	7.67
6,138.0	1.58	246.88	6,135.8	53.4	-76.7	-54.0	0.17	-0.09	5.18
6,152.2	1.62	247.58	6,150.0	53.2	-77.1	-53.9	0.31	0.28	4.91
Cherry Canyon									
6,234.0	1.85	251.01	6,231.8	52.3	-79.4	-53.0	0.31	0.28	4.20
6,328.0	1.93	248.20	6,325.7	51.3	-82.3	-52.0	0.13	0.09	-2.99
6,422.0	1.89	248.11	6,419.7	50.1	-85.2	-50.8	0.04	-0.04	-0.10
6,518.0	1.98	237.30	6,515.6	48.6	-88.1	-49.4	0.39	0.09	-11.26
6,612.0	2.02	230.53	6,609.6	46.7	-90.7	-47.5	0.25	0.04	-7.20
6,707.0	1.98	228.07	6,704.5	44.5	-93.2	-45.3	0.10	-0.04	-2.59
6,801.0	1.93	229.56	6,798.4	42.4	-95.6	-43.2	0.08	-0.05	1.59
6,896.0	0.70	164.61	6,893.4	40.8	-96.7	-41.7	1.84	-1.29	-68.37
6,990.0	0.97	133.50	6,987.4	39.7	-96.0	-40.6	0.55	0.29	-33.10
7,084.0	0.84	138.77	7,081.4	38.6	-95.0	-39.5	0.16	-0.14	5.61
7,178.0	0.66	144.93	7,175.4	37.7	-94.2	-38.5	0.21	-0.19	6.55
7,273.0	0.75	136.31	7,270.4	36.8	-93.4	-37.6	0.15	0.09	-9.07
7,368.0	0.84	125.94	7,365.4	35.9	-92.4	-36.7	0.18	0.09	-10.92
7,463.0	0.92	116.54	7,460.4	35.2	-91.2	-36.0	0.17	0.08	-9.89
7,557.0	0.97	102.91	7,554.3	34.7	-89.8	-35.5	0.24	0.05	-14.50



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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)
7,612.7	0.89	103.74	7,610.0	34.4	-88.9	-35.2	0.14	-0.14	1.48
Brushy Canyon									
7,652.0	0.84	104.41	7,649.3	34.3	-88.3	-35.1	0.14	-0.14	1.71
7,745.0	0.92	123.74	7,742.3	33.7	-87.0	-34.5	0.33	0.09	20.78
7,839.0	1.19	127.52	7,836.3	32.7	-85.6	-33.5	0.30	0.29	4.02
7,934.0	1.23	125.24	7,931.3	31.5	-84.0	-32.3	0.07	0.04	-2.40
8,028.0	1.27	118.29	8,025.3	30.4	-82.3	-31.2	0.17	0.04	-7.39
8,122.0	1.01	114.51	8,119.2	29.6	-80.6	-30.3	0.29	-0.28	-4.02
8,215.0	0.84	113.20	8,212.2	29.0	-79.2	-29.7	0.18	-0.18	-1.41
8,310.0	0.75	88.85	8,307.2	28.7	-77.9	-29.4	0.36	-0.09	-25.63
8,405.0	0.75	72.94	8,402.2	28.9	-76.7	-29.6	0.22	0.00	-16.75
8,499.0	1.05	67.93	8,496.2	29.4	-75.3	-30.1	0.33	0.32	-5.33
8,593.0	1.41	68.64	8,590.2	30.2	-73.5	-30.8	0.38	0.38	0.76
8,687.0	1.76	69.60	8,684.1	31.1	-71.0	-31.7	0.37	0.37	1.02
8,782.0	1.98	76.99	8,779.1	32.0	-68.1	-32.6	0.34	0.23	7.78
8,877.0	2.15	77.69	8,874.0	32.7	-64.7	-33.3	0.18	0.18	0.74
8,918.0	2.28	78.80	8,915.0	33.0	-63.2	-33.6	0.34	0.33	2.71
Bone Spring Lime									
8,968.0	2.45	79.99	8,965.0	33.4	-61.2	-34.0	0.34	0.33	2.38
Upper Avalon									
8,971.0	2.46	80.06	8,968.0	33.5	-61.0	-34.0	0.34	0.33	2.21
9,065.0	2.15	83.75	9,061.9	34.0	-57.3	-34.5	0.37	-0.33	3.93
9,159.0	2.29	90.43	9,155.8	34.2	-53.7	-34.6	0.31	0.15	7.11
9,208.2	1.58	105.35	9,205.0	34.0	-52.0	-34.4	1.75	-1.43	30.32
Middle Avalon									
9,254.0	1.14	134.11	9,250.8	33.5	-51.1	-33.9	1.75	-0.97	62.81
9,349.0	1.23	142.64	9,345.8	32.0	-49.8	-32.5	0.21	0.09	8.98
9,442.0	0.92	180.70	9,438.7	30.5	-49.2	-30.9	0.82	-0.33	40.92
9,537.0	1.27	197.75	9,533.7	28.7	-49.5	-29.2	0.50	0.37	17.95
9,632.0	1.23	199.94	9,628.7	26.8	-50.2	-27.2	0.07	-0.04	2.31
9,643.3	1.22	199.15	9,640.0	26.5	-50.3	-27.0	0.16	-0.05	-6.99
Lower Avalon									
9,727.0	1.19	193.09	9,723.7	24.8	-50.8	-25.3	0.16	-0.04	-7.24
9,822.0	1.19	207.94	9,818.7	23.0	-51.4	-23.5	0.32	0.00	15.63
9,916.0	1.32	202.32	9,912.6	21.1	-52.3	-21.6	0.19	0.14	-5.98
10,009.0	1.27	216.03	10,005.6	19.3	-53.3	-19.8	0.34	-0.05	14.74
10,104.0	0.97	190.98	10,100.6	17.7	-54.1	-18.2	0.60	-0.32	-26.37
10,123.4	1.00	180.93	10,120.0	17.4	-54.1	-17.8	0.90	0.13	-51.75
1st Bone Spring Sand									
10,198.0	1.32	151.43	10,194.6	15.9	-53.7	-16.4	0.90	0.44	-39.56
10,292.0	1.14	222.36	10,288.6	14.3	-53.8	-14.8	1.53	-0.19	75.46
10,318.4	1.04	228.90	10,315.0	14.0	-54.2	-14.4	0.59	-0.36	24.71
2nd Bone Spring Carb									
10,387.0	0.88	251.36	10,383.5	13.4	-55.2	-13.9	0.59	-0.24	32.77
10,481.0	0.31	108.89	10,477.5	13.1	-55.6	-13.6	1.21	-0.61	-151.56



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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)
10,575.0	0.44	115.92	10,571.5	12.8	-55.0	-13.3	0.15	0.14	7.48
10,670.0	1.49	93.68	10,666.5	12.6	-53.5	-13.1	1.15	1.11	-23.41
10,673.5	1.53	94.31	10,670.0	12.6	-53.4	-13.1	1.15	1.04	18.20
2nd Bone Spring Sand									
10,764.0	2.51	104.14	10,760.5	12.0	-50.3	-12.4	1.15	1.09	10.86
10,858.0	0.22	31.19	10,854.4	11.7	-48.2	-12.1	2.61	-2.44	-77.61
10,951.0	1.76	218.49	10,947.4	10.7	-49.0	-11.1	2.13	1.66	-185.70
11,046.0	2.37	210.93	11,042.4	7.9	-50.9	-8.3	0.70	0.64	-7.96
11,140.0	2.07	181.93	11,136.3	4.5	-52.0	-5.0	1.22	-0.32	-30.85
11,228.8	1.97	208.73	11,225.0	1.6	-52.7	-2.0	1.06	-0.11	30.19
3rd Bone Spring Carb									
11,234.0	1.98	210.32	11,230.2	1.4	-52.8	-1.9	1.06	0.15	30.43
11,328.0	2.15	233.87	11,324.2	-1.0	-55.1	0.6	0.91	0.18	25.05
11,422.0	2.68	218.49	11,418.1	-3.8	-57.9	3.3	0.89	0.56	-16.36
11,515.0	1.45	231.76	11,511.0	-6.2	-60.1	5.7	1.41	-1.32	14.27
11,583.0	1.19	234.49	11,579.0	-7.2	-61.4	6.6	0.39	-0.38	4.01
11,654.0	1.14	213.66	11,650.0	-8.2	-62.4	7.6	0.60	-0.07	-29.34
11,749.0	3.91	162.94	11,744.9	-12.1	-62.0	11.5	3.48	2.92	-53.39
11,844.0	18.02	179.29	11,837.9	-30.0	-60.8	29.4	15.06	14.85	17.21
11,937.0	30.15	177.44	11,922.7	-67.8	-59.6	67.3	13.07	13.04	-1.99
11,986.6	32.68	174.54	11,965.0	-93.6	-57.8	93.1	5.94	5.10	-5.85
3rd Bone Spring Sand									
12,031.0	34.99	172.26	12,001.9	-118.1	-54.9	117.7	5.94	5.21	-5.13
12,109.0	36.95	175.64	12,065.0	-163.7	-50.1	163.2	3.58	2.51	4.34
3rd BS W Sand									
12,125.0	37.36	176.30	12,077.8	-173.3	-49.4	172.9	3.58	2.58	4.10
12,201.8	46.22	181.02	12,135.0	-224.4	-48.4	224.0	12.24	11.54	6.14
Wolfcamp A X Sand									
12,220.0	48.35	181.93	12,147.3	-237.8	-48.8	237.3	12.24	11.68	5.01
12,247.1	50.30	182.65	12,165.0	-258.3	-49.6	257.9	7.48	7.20	2.67
Wolfcamp A Y Sand									
12,315.0	55.21	184.30	12,206.1	-312.3	-52.9	311.8	7.48	7.23	2.43
12,350.3	60.07	184.51	12,225.0	-342.0	-55.2	341.5	13.75	13.74	0.61
Wolfcamp A Lower									
12,409.0	68.13	184.83	12,250.6	-394.6	-59.5	394.0	13.75	13.75	0.54
12,504.0	71.12	196.69	12,283.8	-481.8	-76.2	481.1	12.11	3.15	12.48
12,577.0	78.46	189.66	12,302.9	-550.3	-92.1	549.5	13.69	10.05	-9.63
12,600.0	82.64	188.08	12,306.7	-572.7	-95.6	571.9	19.40	18.17	-6.87
12,693.0	87.34	186.06	12,314.8	-664.7	-107.0	663.7	5.50	5.05	-2.17
12,758.5	87.47	185.20	12,317.8	-729.8	-113.4	728.7	1.32	0.19	-1.31
FTP @ 12758.5'MD, 100'FNL & 439.1'FWL									
12,787.0	87.52	184.83	12,319.1	-758.1	-115.9	757.1	1.32	0.19	-1.31
12,881.0	89.93	184.48	12,321.1	-851.8	-123.5	850.7	2.59	2.56	-0.37
12,975.0	92.13	185.71	12,319.5	-945.4	-131.9	944.2	2.68	2.34	1.31
13,069.0	92.26	186.85	12,315.9	-1,038.8	-142.2	1,037.5	1.22	0.14	1.21



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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)
13,163.0	92.35	186.67	12,312.1	-1,132.0	-153.2	1,130.6	0.21	0.10	-0.19
13,258.0	92.26	186.06	12,308.3	-1,226.4	-163.7	1,224.9	0.65	-0.09	-0.64
13,353.0	89.67	186.59	12,306.7	-1,320.8	-174.2	1,319.2	2.78	-2.73	0.56
13,448.0	89.45	186.23	12,307.4	-1,415.2	-184.8	1,413.5	0.44	-0.23	-0.38
13,543.0	86.29	184.30	12,310.9	-1,509.7	-193.5	1,507.9	3.90	-3.33	-2.03
13,637.0	85.36	182.54	12,317.8	-1,603.3	-199.1	1,601.4	2.11	-0.99	-1.87
13,731.0	86.90	181.49	12,324.1	-1,697.0	-202.4	1,695.1	1.98	1.64	-1.12
13,826.0	87.30	182.01	12,328.9	-1,791.8	-205.3	1,789.9	0.69	0.42	0.55
13,919.0	86.02	180.96	12,334.3	-1,884.6	-207.7	1,882.7	1.78	-1.38	-1.13
14,014.0	87.69	178.68	12,339.5	-1,979.5	-207.4	1,977.6	2.97	1.76	-2.40
14,109.0	89.05	179.64	12,342.2	-2,074.4	-206.0	2,072.5	1.75	1.43	1.01
14,203.0	91.52	180.35	12,341.8	-2,168.4	-206.0	2,166.5	2.73	2.63	0.76
14,297.0	91.91	180.17	12,339.0	-2,262.4	-206.4	2,260.5	0.46	0.41	-0.19
14,392.0	90.46	180.61	12,337.0	-2,357.4	-207.1	2,355.4	1.60	-1.53	0.46
14,486.0	88.97	180.78	12,337.5	-2,451.3	-208.2	2,449.4	1.60	-1.59	0.18
14,581.0	89.45	181.22	12,338.8	-2,546.3	-209.9	2,544.4	0.69	0.51	0.46
14,674.0	89.05	181.40	12,340.0	-2,639.3	-212.0	2,637.3	0.47	-0.43	0.19
14,769.0	92.18	184.39	12,339.0	-2,734.1	-216.8	2,732.1	4.56	3.29	3.15
14,864.0	90.20	181.84	12,337.0	-2,829.0	-222.0	2,826.9	3.40	-2.08	-2.68
14,959.0	90.42	180.78	12,336.5	-2,923.9	-224.1	2,921.8	1.14	0.23	-1.12
15,053.0	89.01	183.77	12,337.0	-3,017.9	-227.9	3,015.7	3.52	-1.50	3.18
15,147.0	87.91	184.74	12,339.5	-3,111.6	-234.8	3,109.3	1.56	-1.17	1.03
15,242.0	87.69	182.89	12,343.1	-3,206.3	-241.2	3,204.0	1.96	-0.23	-1.95
15,273.0	87.47	182.54	12,344.4	-3,237.2	-242.6	3,234.9	1.33	-0.71	-1.13
15,310.0	86.29	182.01	12,346.4	-3,274.1	-244.1	3,271.8	3.50	-3.19	-1.43
15,336.0	86.37	182.10	12,348.1	-3,300.1	-245.0	3,297.7	0.46	0.31	0.35
15,429.0	86.91	181.05	12,353.6	-3,392.9	-247.6	3,390.5	1.27	0.58	-1.13
15,455.0	87.78	179.91	12,354.8	-3,418.8	-247.8	3,416.5	5.51	3.35	-4.38
15,523.0	90.99	178.41	12,355.5	-3,486.8	-246.8	3,484.5	5.21	4.72	-2.21
15,618.0	91.52	176.48	12,353.4	-3,581.7	-242.6	3,579.4	2.11	0.56	-2.03
15,641.0	88.75	175.16	12,353.4	-3,604.6	-240.9	3,602.3	13.34	-12.04	-5.74
15,735.0	86.11	174.02	12,357.6	-3,698.1	-232.0	3,695.9	3.06	-2.81	-1.21
15,829.0	90.02	174.02	12,360.8	-3,791.5	-222.3	3,789.4	4.16	4.16	0.00
15,924.0	92.48	175.60	12,358.7	-3,886.1	-213.7	3,884.0	3.08	2.59	1.66
16,019.0	92.70	176.30	12,354.4	-3,980.8	-207.0	3,978.8	0.77	0.23	0.74
16,112.0	92.92	176.30	12,349.8	-4,073.5	-201.0	4,071.5	0.24	0.24	0.00
16,207.0	91.03	175.16	12,346.6	-4,168.1	-193.9	4,166.2	2.32	-1.99	-1.20
16,302.0	92.88	174.46	12,343.3	-4,262.7	-185.3	4,260.9	2.08	1.95	-0.74
16,396.0	94.59	175.34	12,337.2	-4,356.1	-177.0	4,354.4	2.04	1.82	0.94
16,416.0	94.33	175.60	12,335.6	-4,376.0	-175.4	4,374.2	1.84	-1.30	1.30
16,491.0	91.87	178.15	12,331.6	-4,450.7	-171.3	4,449.0	4.72	-3.28	3.40
16,585.0	92.09	177.88	12,328.3	-4,544.6	-168.1	4,543.0	0.37	0.23	-0.29
16,679.0	90.15	180.78	12,326.5	-4,638.6	-167.0	4,636.9	3.71	-2.06	3.09



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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)
16,773.0	88.26	181.93	12,327.8	-4,732.6	-169.2	4,730.9	2.35	-2.01	1.22
16,868.0	87.65	181.40	12,331.2	-4,827.5	-171.9	4,825.7	0.85	-0.64	-0.56
16,963.0	86.24	181.40	12,336.2	-4,922.3	-174.3	4,920.5	1.48	-1.48	0.00
17,056.0	86.55	179.29	12,342.1	-5,015.1	-174.8	5,013.3	2.29	0.33	-2.27
17,151.0	89.14	178.68	12,345.7	-5,110.0	-173.1	5,108.3	2.80	2.73	-0.64
17,246.0	89.05	179.55	12,347.2	-5,205.0	-171.7	5,203.2	0.92	-0.09	0.92
17,340.0	90.11	179.20	12,347.9	-5,299.0	-170.6	5,297.2	1.19	1.13	-0.37
17,434.0	91.34	179.20	12,346.7	-5,393.0	-169.3	5,391.2	1.31	1.31	0.00
17,529.0	90.07	179.11	12,345.5	-5,487.9	-167.9	5,486.2	1.34	-1.34	-0.09
17,625.0	89.58	178.85	12,345.8	-5,583.9	-166.2	5,582.2	0.58	-0.51	-0.27
17,719.0	89.89	178.94	12,346.2	-5,677.9	-164.4	5,676.2	0.34	0.33	0.10
17,813.0	92.44	178.32	12,344.3	-5,771.8	-162.2	5,770.2	2.79	2.71	-0.66
17,907.0	90.55	177.44	12,341.9	-5,865.7	-158.7	5,864.1	2.22	-2.01	-0.94
18,002.0	90.46	176.74	12,341.0	-5,960.6	-153.9	5,959.0	0.74	-0.09	-0.74
18,096.0	96.79	177.09	12,335.1	-6,054.2	-148.8	6,052.7	6.74	6.73	0.37
18,191.0	97.89	178.24	12,322.9	-6,148.4	-145.0	6,146.8	1.67	1.16	1.21
18,286.0	96.31	179.11	12,311.2	-6,242.6	-142.8	6,241.1	1.90	-1.66	0.92
18,379.0	94.11	180.35	12,302.8	-6,335.2	-142.4	6,333.7	2.71	-2.37	1.33
18,474.0	89.32	180.43	12,299.9	-6,430.2	-143.0	6,428.6	5.04	-5.04	0.08
18,569.0	90.29	181.05	12,300.2	-6,525.1	-144.2	6,523.6	1.21	1.02	0.65
18,664.0	87.87	181.14	12,301.8	-6,620.1	-146.1	6,618.6	2.55	-2.55	0.09
18,759.0	86.77	180.87	12,306.2	-6,715.0	-147.7	6,713.4	1.19	-1.16	-0.28
18,854.0	87.08	180.96	12,311.3	-6,809.8	-149.2	6,808.2	0.34	0.33	0.09
18,949.0	86.51	180.43	12,316.6	-6,904.7	-150.4	6,903.1	0.82	-0.60	-0.56
19,044.0	88.26	179.91	12,321.0	-6,999.6	-150.7	6,998.0	1.92	1.84	-0.55
19,139.0	91.30	180.08	12,321.3	-7,094.6	-150.7	7,093.0	3.20	3.20	0.18
19,232.0	92.66	180.43	12,318.1	-7,187.5	-151.1	7,185.9	1.51	1.46	0.38
19,327.0	90.99	180.35	12,315.1	-7,282.5	-151.7	7,280.8	1.76	-1.76	-0.08
19,423.0	91.16	180.52	12,313.3	-7,378.4	-152.4	7,376.8	0.25	0.18	0.18
19,518.0	90.81	181.14	12,311.6	-7,473.4	-153.8	7,471.8	0.75	-0.37	0.65
19,613.0	92.13	180.96	12,309.2	-7,568.4	-155.6	7,566.7	1.40	1.39	-0.19
19,708.0	92.62	181.40	12,305.3	-7,663.3	-157.5	7,661.6	0.69	0.52	0.46
19,803.0	90.59	180.96	12,302.6	-7,758.2	-159.5	7,756.5	2.19	-2.14	-0.46
19,897.0	90.55	180.87	12,301.7	-7,852.2	-161.0	7,850.4	0.10	-0.04	-0.10
19,992.0	88.88	180.87	12,302.1	-7,947.2	-162.4	7,945.4	1.76	-1.76	0.00
20,087.0	88.70	180.87	12,304.2	-8,042.1	-163.9	8,040.4	0.19	-0.19	0.00
20,181.0	86.24	180.08	12,308.3	-8,136.0	-164.6	8,134.2	2.75	-2.62	-0.84
20,275.0	88.48	180.17	12,312.6	-8,229.9	-164.8	8,228.1	2.38	2.38	0.10
20,369.0	88.84	180.52	12,314.8	-8,323.9	-165.4	8,322.1	0.53	0.38	0.37
20,464.0	89.89	180.26	12,315.9	-8,418.9	-166.1	8,417.1	1.14	1.11	-0.27
20,527.0	90.81	180.70	12,315.5	-8,481.9	-166.6	8,480.1	1.62	1.46	0.70
LAST SVY									
20,530.9	90.81	180.70	12,315.4	-8,485.8	-166.6	8,484.0	0.00	0.00	0.00
LTP @ 20530.9'MD, 100'FSL & 315.5'FWL									



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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)
20,596.0	90.81	180.70	12,314.5	-8,550.9	-167.4	8,549.0	0.00	0.00	0.00
Projection to TD @ 20596'MD, 34.9'FSL & 314.2'FWL									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Mulva Fed Cor - hit/miss target - Shape	-0.50	179.49	12,297.0	-8,581.0	-149.0	423,098.00	844,303.00	32° 9' 33.793 N	103° 21' 15.520 W
- actual wellpath misses target center by 39.4usft at 20596.0usft MD (12314.5 TVD, -8550.9 N, -167.4 E)									
- Rectangle (sides W100.0 H5,079.5 D30.0)									
LTP (Mulva Fed Com - actual wellpath misses target center by 24.8usft at 20530.9usft MD (12315.4 TVD, -8485.8 N, -166.6 E)	0.00	0.00	12,297.0	-8,486.0	-150.0	423,193.00	844,302.00	32° 9' 34.733 N	103° 21' 15.521 W
- Point									
FTP (Mulva Fed Com - actual wellpath misses target center by 105.1usft at 12768.8usft MD (12318.3 TVD, -740.0 N, -114.4 E)	0.00	0.00	12,315.0	-731.0	-219.0	430,948.00	844,233.00	32° 10' 51.473 N	103° 21' 15.503 W
- Point									
3500'VS (Mulva Fed C - actual wellpath misses target center by 53.9usft at 15540.7usft MD (12355.2 TVD, -3504.5 N, -246.3 E)	0.50	179.49	12,342.0	-3,501.9	-194.0	428,177.10	844,257.96	32° 10' 24.054 N	103° 21' 15.506 W
- Rectangle (sides W100.0 H2,771.0 D30.0)									



Intrepid Survey Report



Company:	Tap Rock Resources, LLC	Local Co-ordinate Reference:	Well Mulva Fed Com #213H
Project:	Lea County, NM (NAD 83 NME)	TVD Reference:	KB @ 3311.0usft (H&P 466)
Site:	(Mulva Fed) Sec-27_T-24-S_R-35-E	MD Reference:	KB @ 3311.0usft (H&P 466)
Well:	Mulva Fed Com #213H	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 (°)
970.1	970.0	Rustler Anhydrite			
1,350.1	1,350.0	Top Salt			
4,751.6	4,750.0	Base Salt			
5,256.8	5,255.0	Delaware Mountain Gp			
5,261.8	5,260.0	Lamar			
5,266.8	5,265.0	Bell Canyon			
5,271.8	5,270.0	Ramsey Sand			
6,152.2	6,150.0	Cherry Canyon			
7,612.7	7,610.0	Brushy Canyon			
8,918.0	8,915.0	Bone Spring Lime			
8,968.0	8,965.0	Upper Avalon			
9,208.2	9,205.0	Middle Avalon			
9,643.3	9,640.0	Lower Avalon			
10,123.4	10,120.0	1st Bone Spring Sand			
10,318.4	10,315.0	2nd Bone Spring Carb			
10,673.5	10,670.0	2nd Bone Spring Sand			
11,228.8	11,225.0	3rd Bone Spring Carb			
11,986.6	11,965.0	3rd Bone Spring Sand			
12,109.0	12,065.0	3rd BS W Sand			
12,201.8	12,135.0	Wolfcamp A X Sand			
12,247.1	12,165.0	Wolfcamp A Y Sand			
12,350.3	12,225.0	Wolfcamp A Lower			

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
12,758.5	12,317.8	-729.8	-113.4	FTP @ 12758.5'MD, 100'FNL & 439.1'FWL
20,527.0	12,315.5	-8,481.9	-166.6	LAST SVY
20,530.9	12,315.4	-8,485.8	-166.6	LTP @ 20530.9'MD, 100'FSL & 315.5'FWL
20,596.0	12,314.5	-8,550.9	-167.4	Projection to TD @ 20596'MD, 34.9'FSL & 314.2'FWL

Checked By: _____ Approved By: _____ Date: _____

Well Name: MULVA FED COM	Well Location: T24S / R35E / SEC 27 / SWSE / 32.1829697 / -103.3535768	County or Parish/State: LEA / NM
Well Number: 213H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138890	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547832	Well Status: Approved Application for Permit to Drill	Operator: TAP ROCK OPERATING LLC

Subsequent Report

Type of Submission: Subsequent Report	Type of Action: Drilling Operations
Date Sundry Submitted: 02/15/2021	Time Sundry Submitted: 12:40
Date Operation Actually Began: 01/02/2021	

Actual Procedure: Spud well on 11/5/2020 at 7:00. 12/1/2020: TD Reached at 20596 ft MD, 12315 ft TVD. Plug Back Measured depth at 20529ft MD, 12315 ft TVD. Rig Release on 12/4/2020 at 6:00. 1/2/2021: Pressure test casing to 5000 psi for 30 minutes, good test. 1/2/2021 to 1/19/2021: Perforate from 12767 ft to 20459 ft, 2 SPF, .46 inch holes with 962 total shots. 37 stage frac with 19,418,431lbs of 100 mesh sand. 2/10/2021 to 2/12/2021: Drill out plugs 2/13/2021: Ready to produce Formation Tops (Measured Depth): Formation MD Rustler 546 Top of Salt 1,140 Base of Salt 4,851 Deleware 5,087 Lamar 5,132 Bell 5,163 Ramsey 5,212 Cherry 6,094 Brushy 7,716 Bone Spring 8,951 Upper Avalon 8,995 Middle Avalon 9,223 Lower Avalon 9,776 1st Bone Spring Sand 10,178 2nd Bone Spring Sand 10,733 3rd Bone Spring Sand 11,819 Bone Spring W 12,145 Wolf Camp A X 12,211 Wolf Camp A Y 12268 Wolfcamp A Lower 12389 Request for OCD extension of time to file BLM approved Form 3160-4.

Well Name: MULVA FED COM	Well Location: T24S / R35E / SEC 27 / SWSE / 32.1829697 / -103.3535768	County or Parish/State: LEA / NM
Well Number: 213H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM138890	Unit or CA Name:	Unit or CA Number:
US Well Number: 3002547832	Well Status: Approved Application for Permit to Drill	Operator: TAP ROCK OPERATING LLC

Operator Certification

I certify that the foregoing is true and correct. 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. Electronic submission of Sundry Notices through this system satisfies regulations requiring a submission of Form 3160-5 or a Sundry Notice.

Operator Electronic Signature: RAMSEY	Signed on: FEB 15, 2021 12:39 PM
Name: TAP ROCK OPERATING LLC	
Title: Regulatory Analyst	
Street Address: 602 PARK POINT DRIVE SUITE 200	
City: GOLDEN	State: CO
Phone: (720) 460-3316	
Email address: NOT ENTERED	

Field Representative

Representative Name:		
Street Address:		
City:	State:	Zip:
Phone:		
Email address:		

BLM Point of Contact

BLM POC Name: Jonathon W Shepard	BLM POC Title: Petroleum Engineer
BLM POC Phone: 5752345972	BLM POC Email Address: jshepard@blm.gov
Disposition: Accepted	Disposition Date: 02/23/2021
Signature: Jonathon Shepard	

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

ACKNOWLEDGMENTS

Action 19962

ACKNOWLEDGMENTS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 19962
	Action Type: [C-104] Completion Packet (C-104C)

ACKNOWLEDGMENTS

☐	I hereby certify that the required Water Use Report has been, or will be, submitted for this wells completion.
☐	I hereby certify that the required FracFocus disclosure has been, or will be, submitted for this wells completion.

District I
1625 N. French Dr., Hobbs, NM 88240
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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

CONDITIONS

Action 19962

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 19962
	Action Type: [C-104] Completion Packet (C-104C)

CONDITIONS

Created By	Condition	Condition Date
plmartinez	File BLM 3160-4 within 10 days to NMOCD after BLM approval.	6/4/2021