

Office
 District I – (575) 393-6161
 1625 N. French Dr., Hobbs, NM 88240
 District II – (575) 748-1283
 811 S. First St., Artesia, NM 88210
 District III – (505) 334-6178
 1000 Rio Brazos Rd., Aztec, NM 87410
 District IV – (505) 476-3460
 1220 S. St. Francis Dr., Santa Fe, NM
 87505

State of New Mexico
 Energy, Minerals and Natural Resources

Form C-103
 Revised July 18, 2013

OIL CONSERVATION DIVISION
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

WELL API NO. 30-025-48727
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name COSMO K FEE
8. Well Number 233H
9. OGRID Number 372043
10. Pool name or Wildcat WC-025 G-09 S243532M; WOLFBONE

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) 1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐		7. Lease Name or Unit Agreement Name COSMO K FEE
2. Name of Operator Tap Rock Operating, LLC		8. Well Number 233H
3. Address of Operator 523 Park Point Dr, Suite 200, Golden, CO 80401		9. OGRID Number 372043
4. Well Location Unit Letter G : 2384 feet from the North line and 2071 feet from the East line Section 33 Township 24S Range 35E NMPM County LEA		10. Pool name or Wildcat WC-025 G-09 S243532M; WOLFBONE
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3288		

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☐	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☒	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		OTHER: ☐	

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Change depth from 19093 feet to 13040 feet. Affected change is in the casing only. Casing plan is:

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	54.5	1020	1000	0
Int1	9.875	7.625	29.7	9200	1600	0
Int1	8.75	7.625	29.7	12345	0	0
Prod	6.75	5.5	20	19090	500	11635

Updated directional plan is attached. C-102 is unchanged.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE



TITLE: Regulatory Manager

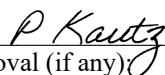
DATE: 4/30/2021

Type or print name: Christian Combs E-mail address: ccombs@taprk.com

PHONE: 303-881-1530

For State Use Only

APPROVED BY:



TITLE

DATE

05/18/2021

Conditions of Approval (if any)



Tap Rock Resources, LLC

**Lea County, NM (NAD 83 NME)
(Cosmo) Sec-33_T-24-S_R-35-E
Cosmo K Fee #223H**

OWB

Plan: Plan #3

Standard Planning Report

29 April, 2021





Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Cosmo K Fee #223H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3314.0usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3314.0usft (H&P 466)
Site:	(Cosmo) Sec-33_T-24-S_R-35-E	North Reference:	Grid
Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

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	(Cosmo) Sec-33_T-24-S_R-35-E		
Site Position:		Northing:	428,628.00 usft
From:	Map	Easting:	839,259.00 usft
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 10' 28.961 N
		Longitude:	103° 22' 13.615 W
		Grid Convergence:	0.51 °

Well	Cosmo K Fee #223H		
Well Position	+N/-S	-8.0 usft	Northing: 428,620.00 usft
	+E/-W	-50.0 usft	Easting: 839,209.00 usft
Position Uncertainty	0.0 usft	Wellhead Elevation:	Latitude: 32° 10' 28.887 N
			Longitude: 103° 22' 14.198 W
			Ground Level: 3,288.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM	04/30/21	6.43	59.74	47,611.22912848

Design	Plan #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	359.45

Plan Survey Tool Program	Date	04/29/21		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	19,324.2 Plan #3 (OWB)	MWD	
			OWSG MWD - Standard	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,950.3	4.50	178.66	1,949.8	-17.7	0.4	1.00	1.00	0.00	178.66	
4,232.7	4.50	178.66	4,225.2	-196.8	4.6	0.00	0.00	0.00	0.00	
4,683.0	0.00	0.00	4,675.0	-214.5	5.0	1.00	-1.00	0.00	180.00	
12,462.0	0.00	0.00	12,454.0	-214.5	5.0	0.00	0.00	0.00	0.00	
13,382.0	92.00	6.10	13,026.6	375.1	68.0	10.00	10.00	0.00	6.10	
13,714.4	92.00	359.45	13,015.0	706.7	84.1	2.00	0.00	-2.00	-89.91	
19,324.3	92.00	359.45	12,819.6	6,313.0	30.0	0.00	0.00	0.00	0.00	PBHL (Cosmo K Fe



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Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned 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
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
819.0	0.00	0.00	819.0	0.0	0.0	0.0	0.00	0.00	0.00
Rustler Anhydrite									
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
995.0	0.00	0.00	995.0	0.0	0.0	0.0	0.00	0.00	0.00
Top Salt									
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	1.00	178.66	1,600.0	-0.9	0.0	-0.9	1.00	1.00	0.00
1,700.0	2.00	178.66	1,700.0	-3.5	0.1	-3.5	1.00	1.00	0.00
1,800.0	3.00	178.66	1,799.9	-7.9	0.2	-7.9	1.00	1.00	0.00
1,900.0	4.00	178.66	1,899.7	-14.0	0.3	-14.0	1.00	1.00	0.00
1,950.3	4.50	178.66	1,949.8	-17.7	0.4	-17.7	1.00	1.00	0.00
2,000.0	4.50	178.66	1,999.4	-21.6	0.5	-21.6	0.00	0.00	0.00
2,100.0	4.50	178.66	2,099.1	-29.4	0.7	-29.4	0.00	0.00	0.00
2,200.0	4.50	178.66	2,198.8	-37.3	0.9	-37.3	0.00	0.00	0.00
2,300.0	4.50	178.66	2,298.5	-45.1	1.1	-45.1	0.00	0.00	0.00
2,400.0	4.50	178.66	2,398.1	-53.0	1.2	-53.0	0.00	0.00	0.00
2,500.0	4.50	178.66	2,497.8	-60.8	1.4	-60.8	0.00	0.00	0.00
2,600.0	4.50	178.66	2,597.5	-68.7	1.6	-68.7	0.00	0.00	0.00
2,700.0	4.50	178.66	2,697.2	-76.5	1.8	-76.5	0.00	0.00	0.00
2,800.0	4.50	178.66	2,796.9	-84.4	2.0	-84.4	0.00	0.00	0.00
2,900.0	4.50	178.66	2,896.6	-92.2	2.1	-92.2	0.00	0.00	0.00
3,000.0	4.50	178.66	2,996.3	-100.1	2.3	-100.1	0.00	0.00	0.00
3,100.0	4.50	178.66	3,096.0	-107.9	2.5	-107.9	0.00	0.00	0.00
3,200.0	4.50	178.66	3,195.7	-115.8	2.7	-115.8	0.00	0.00	0.00
3,300.0	4.50	178.66	3,295.4	-123.6	2.9	-123.6	0.00	0.00	0.00
3,400.0	4.50	178.66	3,395.1	-131.5	3.1	-131.5	0.00	0.00	0.00
3,500.0	4.50	178.66	3,494.8	-139.3	3.2	-139.3	0.00	0.00	0.00
3,600.0	4.50	178.66	3,594.4	-147.2	3.4	-147.2	0.00	0.00	0.00
3,700.0	4.50	178.66	3,694.1	-155.0	3.6	-155.0	0.00	0.00	0.00
3,800.0	4.50	178.66	3,793.8	-162.9	3.8	-162.9	0.00	0.00	0.00
3,900.0	4.50	178.66	3,893.5	-170.7	4.0	-170.7	0.00	0.00	0.00
4,000.0	4.50	178.66	3,993.2	-178.6	4.2	-178.6	0.00	0.00	0.00
4,100.0	4.50	178.66	4,092.9	-186.4	4.3	-186.4	0.00	0.00	0.00
4,200.0	4.50	178.66	4,192.6	-194.3	4.5	-194.3	0.00	0.00	0.00
4,232.7	4.50	178.66	4,225.2	-196.8	4.6	-196.9	0.00	0.00	0.00
4,300.0	3.83	178.66	4,292.3	-201.7	4.7	-201.7	1.00	-1.00	0.00
4,400.0	2.83	178.66	4,392.1	-207.5	4.8	-207.6	1.00	-1.00	0.00
4,500.0	1.83	178.66	4,492.1	-211.6	4.9	-211.6	1.00	-1.00	0.00
4,600.0	0.83	178.66	4,592.0	-213.9	5.0	-213.9	1.00	-1.00	0.00



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3314.0usft (H&P 466)
Site:	(Cosmo) Sec-33_T-24-S_R-35-E	North Reference:	Grid
Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned 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)
4,683.0	0.00	0.00	4,675.0	-214.5	5.0	-214.5	1.00	-1.00	0.00
4,700.0	0.00	0.00	4,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
4,800.0	0.00	0.00	4,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
4,888.0	0.00	0.00	4,880.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Base Salt									
4,900.0	0.00	0.00	4,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,000.0	0.00	0.00	4,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,100.0	0.00	0.00	5,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,200.0	0.00	0.00	5,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,293.0	0.00	0.00	5,285.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Delaware Mountain Gp									
5,298.0	0.00	0.00	5,290.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Lamar									
5,300.0	0.00	0.00	5,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,323.0	0.00	0.00	5,315.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Bell Canyon									
5,348.0	0.00	0.00	5,340.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Ramsey Sand									
5,400.0	0.00	0.00	5,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,500.0	0.00	0.00	5,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,600.0	0.00	0.00	5,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,700.0	0.00	0.00	5,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,800.0	0.00	0.00	5,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
5,900.0	0.00	0.00	5,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,000.0	0.00	0.00	5,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,100.0	0.00	0.00	6,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,200.0	0.00	0.00	6,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,288.0	0.00	0.00	6,280.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Cherry Canyon									
6,300.0	0.00	0.00	6,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,400.0	0.00	0.00	6,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,500.0	0.00	0.00	6,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,600.0	0.00	0.00	6,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,700.0	0.00	0.00	6,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,800.0	0.00	0.00	6,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
6,900.0	0.00	0.00	6,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,000.0	0.00	0.00	6,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,100.0	0.00	0.00	7,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,200.0	0.00	0.00	7,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,300.0	0.00	0.00	7,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,400.0	0.00	0.00	7,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,500.0	0.00	0.00	7,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,600.0	0.00	0.00	7,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,700.0	0.00	0.00	7,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,793.0	0.00	0.00	7,785.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Brushy Canyon									
7,800.0	0.00	0.00	7,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
7,900.0	0.00	0.00	7,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,000.0	0.00	0.00	7,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,100.0	0.00	0.00	8,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,200.0	0.00	0.00	8,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,300.0	0.00	0.00	8,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,400.0	0.00	0.00	8,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00



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Design:	Plan #3		

Planned 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)
8,500.0	0.00	0.00	8,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,600.0	0.00	0.00	8,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,700.0	0.00	0.00	8,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,800.0	0.00	0.00	8,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
8,900.0	0.00	0.00	8,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,000.0	0.00	0.00	8,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,078.0	0.00	0.00	9,070.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Bone Spring Lime									
9,093.0	0.00	0.00	9,085.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Upper Avalon									
9,100.0	0.00	0.00	9,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,200.0	0.00	0.00	9,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,300.0	0.00	0.00	9,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,333.0	0.00	0.00	9,325.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Middle Avalon									
9,400.0	0.00	0.00	9,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,500.0	0.00	0.00	9,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,600.0	0.00	0.00	9,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,700.0	0.00	0.00	9,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,800.0	0.00	0.00	9,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
9,883.0	0.00	0.00	9,875.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Lower Avalon									
9,900.0	0.00	0.00	9,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,000.0	0.00	0.00	9,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,100.0	0.00	0.00	10,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,200.0	0.00	0.00	10,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,300.0	0.00	0.00	10,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,338.0	0.00	0.00	10,330.0	-214.5	5.0	-214.5	0.00	0.00	0.00
1st Bone Spring Sand									
10,400.0	0.00	0.00	10,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,500.0	0.00	0.00	10,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,600.0	0.00	0.00	10,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,638.0	0.00	0.00	10,630.0	-214.5	5.0	-214.5	0.00	0.00	0.00
2nd Bone Spring Carb									
10,700.0	0.00	0.00	10,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,800.0	0.00	0.00	10,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,900.0	0.00	0.00	10,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
10,943.0	0.00	0.00	10,935.0	-214.5	5.0	-214.5	0.00	0.00	0.00
2nd Bone Spring Sand									
11,000.0	0.00	0.00	10,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,100.0	0.00	0.00	11,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,200.0	0.00	0.00	11,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,300.0	0.00	0.00	11,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,378.0	0.00	0.00	11,370.0	-214.5	5.0	-214.5	0.00	0.00	0.00
3rd Bone Spring Carb									
11,400.0	0.00	0.00	11,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,500.0	0.00	0.00	11,492.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,600.0	0.00	0.00	11,592.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,700.0	0.00	0.00	11,692.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,800.0	0.00	0.00	11,792.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,900.0	0.00	0.00	11,892.0	-214.5	5.0	-214.5	0.00	0.00	0.00
11,933.0	0.00	0.00	11,925.0	-214.5	5.0	-214.5	0.00	0.00	0.00
3rd Bone Spring Sand									



Intrepid Planning Report



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3314.0usft (H&P 466)
Site:	(Cosmo) Sec-33_T-24-S_R-35-E	North Reference:	Grid
Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned 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)
12,000.0	0.00	0.00	11,992.0	-214.5	5.0	-214.5	0.00	0.00	0.00
12,100.0	0.00	0.00	12,092.0	-214.5	5.0	-214.5	0.00	0.00	0.00
12,200.0	0.00	0.00	12,192.0	-214.5	5.0	-214.5	0.00	0.00	0.00
12,253.0	0.00	0.00	12,245.0	-214.5	5.0	-214.5	0.00	0.00	0.00
3rd BS W Sand									
12,300.0	0.00	0.00	12,292.0	-214.5	5.0	-214.5	0.00	0.00	0.00
12,353.0	0.00	0.00	12,345.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Wolfcamp A X Sand									
12,383.0	0.00	0.00	12,375.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Wolfcamp A Y Sand									
12,400.0	0.00	0.00	12,392.0	-214.5	5.0	-214.5	0.00	0.00	0.00
12,443.0	0.00	0.00	12,435.0	-214.5	5.0	-214.5	0.00	0.00	0.00
Wolfcamp A Lower									
12,462.0	0.00	0.00	12,454.0	-214.5	5.0	-214.5	0.00	0.00	0.00
12,500.0	3.80	6.10	12,492.0	-213.2	5.1	-213.3	10.00	10.00	0.00
12,550.0	8.80	6.10	12,541.7	-207.8	5.7	-207.8	10.00	10.00	0.00
12,600.0	13.80	6.10	12,590.7	-198.0	6.8	-198.1	10.00	10.00	0.00
12,630.4	16.84	6.10	12,620.0	-190.1	7.6	-190.1	10.00	10.00	0.00
Wolfcamp B									
12,650.0	18.80	6.10	12,638.7	-184.1	8.2	-184.2	10.00	10.00	0.00
12,700.0	23.80	6.10	12,685.2	-166.0	10.2	-166.1	10.00	10.00	0.00
12,727.4	26.54	6.10	12,710.0	-154.5	11.4	-154.6	10.00	10.00	0.00
Wolfcamp B1									
12,750.0	28.80	6.10	12,730.0	-144.0	12.5	-144.1	10.00	10.00	0.00
12,800.0	33.80	6.10	12,772.8	-118.2	15.3	-118.3	10.00	10.00	0.00
12,839.8	37.78	6.10	12,805.0	-95.1	17.8	-95.2	10.00	10.00	0.00
Wolfcamp C									
12,850.0	38.80	6.10	12,813.0	-88.8	18.4	-88.9	10.00	10.00	0.00
12,900.0	43.80	6.10	12,850.6	-56.0	21.9	-56.2	10.00	10.00	0.00
12,950.0	48.80	6.10	12,885.1	-20.0	25.8	-20.3	10.00	10.00	0.00
12,981.2	51.92	6.10	12,905.0	3.8	28.3	3.6	10.00	10.00	0.00
Wolfcamp D									
12,982.8	52.08	6.10	12,906.0	5.1	28.5	4.8	10.00	10.00	0.00
Wolfcamp E									
13,000.0	53.80	6.10	12,916.4	18.8	29.9	18.5	10.00	10.00	0.00
13,050.0	58.80	6.10	12,944.1	60.1	34.3	59.8	10.00	10.00	0.00
13,100.0	63.80	6.10	12,968.1	103.7	39.0	103.3	10.00	10.00	0.00
13,150.0	68.80	6.10	12,988.2	149.2	43.9	148.8	10.00	10.00	0.00
13,200.0	73.80	6.10	13,004.2	196.3	48.9	195.8	10.00	10.00	0.00
13,250.0	78.80	6.10	13,016.1	244.6	54.1	244.1	10.00	10.00	0.00
13,300.0	83.80	6.10	13,023.6	293.7	59.3	293.1	10.00	10.00	0.00
13,350.0	88.80	6.10	13,026.8	343.3	64.6	342.7	10.00	10.00	0.00
13,382.0	92.00	6.10	13,026.6	375.1	68.0	374.4	10.00	10.00	0.00
13,400.0	92.00	5.74	13,026.0	393.0	69.9	392.3	2.00	0.00	-2.00
13,500.0	92.00	3.74	13,022.5	492.6	78.1	491.8	2.00	0.00	-2.00
13,600.0	92.00	1.74	13,019.0	592.4	82.9	591.6	2.00	0.00	-2.00
13,700.0	92.00	359.74	13,015.5	692.4	84.2	691.5	2.00	0.00	-2.00
13,714.4	92.00	359.45	13,015.0	706.7	84.1	705.9	2.00	0.00	-2.00
13,800.0	92.00	359.45	13,012.0	792.3	83.3	791.5	0.00	0.00	0.00
13,900.0	92.00	359.45	13,008.5	892.2	82.3	891.4	0.00	0.00	0.00
14,000.0	92.00	359.45	13,005.1	992.2	81.3	991.3	0.00	0.00	0.00
14,100.0	92.00	359.45	13,001.6	1,092.1	80.4	1,091.3	0.00	0.00	0.00
14,200.0	92.00	359.45	12,998.1	1,192.0	79.4	1,191.2	0.00	0.00	0.00



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Cosmo K Fee #223H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3314.0usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3314.0usft (H&P 466)
Site:	(Cosmo) Sec-33_T-24-S_R-35-E	North Reference:	Grid
Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Planned 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)
14,300.0	92.00	359.45	12,994.6	1,292.0	78.4	1,291.2	0.00	0.00	0.00
14,400.0	92.00	359.45	12,991.1	1,391.9	77.5	1,391.1	0.00	0.00	0.00
14,500.0	92.00	359.45	12,987.6	1,491.8	76.5	1,491.0	0.00	0.00	0.00
14,600.0	92.00	359.45	12,984.2	1,591.8	75.5	1,591.0	0.00	0.00	0.00
14,700.0	92.00	359.45	12,980.7	1,691.7	74.6	1,690.9	0.00	0.00	0.00
14,800.0	92.00	359.45	12,977.2	1,791.6	73.6	1,790.8	0.00	0.00	0.00
14,900.0	92.00	359.45	12,973.7	1,891.6	72.6	1,890.8	0.00	0.00	0.00
15,000.0	92.00	359.45	12,970.2	1,991.5	71.7	1,990.7	0.00	0.00	0.00
15,100.0	92.00	359.45	12,966.7	2,091.4	70.7	2,090.7	0.00	0.00	0.00
15,200.0	92.00	359.45	12,963.2	2,191.4	69.8	2,190.6	0.00	0.00	0.00
15,300.0	92.00	359.45	12,959.8	2,291.3	68.8	2,290.5	0.00	0.00	0.00
15,400.0	92.00	359.45	12,956.3	2,391.2	67.8	2,390.5	0.00	0.00	0.00
15,500.0	92.00	359.45	12,952.8	2,491.2	66.9	2,490.4	0.00	0.00	0.00
15,600.0	92.00	359.45	12,949.3	2,591.1	65.9	2,590.4	0.00	0.00	0.00
15,700.0	92.00	359.45	12,945.8	2,691.0	64.9	2,690.3	0.00	0.00	0.00
15,800.0	92.00	359.45	12,942.3	2,791.0	64.0	2,790.2	0.00	0.00	0.00
15,900.0	92.00	359.45	12,938.9	2,890.9	63.0	2,890.2	0.00	0.00	0.00
16,000.0	92.00	359.45	12,935.4	2,990.9	62.0	2,990.1	0.00	0.00	0.00
16,100.0	92.00	359.45	12,931.9	3,090.8	61.1	3,090.1	0.00	0.00	0.00
16,200.0	92.00	359.45	12,928.4	3,190.7	60.1	3,190.0	0.00	0.00	0.00
16,300.0	92.00	359.45	12,924.9	3,290.7	59.2	3,289.9	0.00	0.00	0.00
16,400.0	92.00	359.45	12,921.4	3,390.6	58.2	3,389.9	0.00	0.00	0.00
16,500.0	92.00	359.45	12,918.0	3,490.5	57.2	3,489.8	0.00	0.00	0.00
16,600.0	92.00	359.45	12,914.5	3,590.5	56.3	3,589.8	0.00	0.00	0.00
16,700.0	92.00	359.45	12,911.0	3,690.4	55.3	3,689.7	0.00	0.00	0.00
16,800.0	92.00	359.45	12,907.5	3,790.3	54.3	3,789.6	0.00	0.00	0.00
16,900.0	92.00	359.45	12,904.0	3,890.3	53.4	3,889.6	0.00	0.00	0.00
17,000.0	92.00	359.45	12,900.5	3,990.2	52.4	3,989.5	0.00	0.00	0.00
17,100.0	92.00	359.45	12,897.1	4,090.1	51.4	4,089.5	0.00	0.00	0.00
17,200.0	92.00	359.45	12,893.6	4,190.1	50.5	4,189.4	0.00	0.00	0.00
17,300.0	92.00	359.45	12,890.1	4,290.0	49.5	4,289.3	0.00	0.00	0.00
17,400.0	92.00	359.45	12,886.6	4,389.9	48.5	4,389.3	0.00	0.00	0.00
17,500.0	92.00	359.45	12,883.1	4,489.9	47.6	4,489.2	0.00	0.00	0.00
17,600.0	92.00	359.45	12,879.6	4,589.8	46.6	4,589.1	0.00	0.00	0.00
17,700.0	92.00	359.45	12,876.2	4,689.7	45.7	4,689.1	0.00	0.00	0.00
17,800.0	92.00	359.45	12,872.7	4,789.7	44.7	4,789.0	0.00	0.00	0.00
17,900.0	92.00	359.45	12,869.2	4,889.6	43.7	4,889.0	0.00	0.00	0.00
18,000.0	92.00	359.45	12,865.7	4,989.5	42.8	4,988.9	0.00	0.00	0.00
18,100.0	92.00	359.45	12,862.2	5,089.5	41.8	5,088.8	0.00	0.00	0.00
18,200.0	92.00	359.45	12,858.7	5,189.4	40.8	5,188.8	0.00	0.00	0.00
18,300.0	92.00	359.45	12,855.3	5,289.3	39.9	5,288.7	0.00	0.00	0.00
18,400.0	92.00	359.45	12,851.8	5,389.3	38.9	5,388.7	0.00	0.00	0.00
18,500.0	92.00	359.45	12,848.3	5,489.2	37.9	5,488.6	0.00	0.00	0.00
18,600.0	92.00	359.45	12,844.8	5,589.2	37.0	5,588.5	0.00	0.00	0.00
18,700.0	92.00	359.45	12,841.3	5,689.1	36.0	5,688.5	0.00	0.00	0.00
18,800.0	92.00	359.45	12,837.8	5,789.0	35.1	5,788.4	0.00	0.00	0.00
18,900.0	92.00	359.45	12,834.3	5,889.0	34.1	5,888.4	0.00	0.00	0.00
19,000.0	92.00	359.45	12,830.9	5,988.9	33.1	5,988.3	0.00	0.00	0.00
19,100.0	92.00	359.45	12,827.4	6,088.8	32.2	6,088.2	0.00	0.00	0.00
19,200.0	92.00	359.45	12,823.9	6,188.8	31.2	6,188.2	0.00	0.00	0.00
19,300.0	92.00	359.45	12,820.4	6,288.7	30.2	6,288.1	0.00	0.00	0.00
19,324.3	92.00	359.45	12,819.6	6,313.0	30.0	6,312.4	0.00	0.00	0.00



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Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3314.0usft (H&P 466)
Site:	(Cosmo) Sec-33_T-24-S_R-35-E	North Reference:	Grid
Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Design Targets

Target Name

- hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL (Cosmo K Fee #223H) - plan hits target center - Rectangle (sides W100.0 H6,471.0 D30.0)	-2.00	359.45	12,819.6	6,313.0	30.0	434,933.00	839,239.00	32° 11' 31.349 N	103° 22' 13.191 W
LTP (Cosmo K Fee #223H) - plan misses target center by 2.5usft at 19254.4usft MD (12822.0 TVD, 6243.1 N, 30.7 E) - Point	0.00	0.00	12,819.6	6,243.0	31.0	434,863.00	839,240.00	32° 11' 30.657 N	103° 22' 13.187 W
FTP (Cosmo K Fee #223H) - plan misses target center by 217.4usft at 12950.0usft MD (12885.1 TVD, -20.0 N, 25.8 E) - Point	0.00	0.00	13,040.0	-157.0	93.0	428,463.00	839,302.00	32° 10' 27.325 N	103° 22' 13.132 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
819.0	819.0	Rustler Anhydrite			
995.0	995.0	Top Salt			
4,888.0	4,880.0	Base Salt			
5,293.0	5,285.0	Delaware Mountain Gp			
5,298.0	5,290.0	Lamar			
5,323.0	5,315.0	Bell Canyon			
5,348.0	5,340.0	Ramsey Sand			
6,288.0	6,280.0	Cherry Canyon			
7,793.0	7,785.0	Brushy Canyon			
9,078.0	9,070.0	Bone Spring Lime			
9,093.0	9,085.0	Upper Avalon			
9,333.0	9,325.0	Middle Avalon			
9,883.0	9,875.0	Lower Avalon			
10,338.0	10,330.0	1st Bone Spring Sand			
10,638.0	10,630.0	2nd Bone Spring Carb			
10,943.0	10,935.0	2nd Bone Spring Sand			
11,378.0	11,370.0	3rd Bone Spring Carb			
11,933.0	11,925.0	3rd Bone Spring Sand			
12,253.0	12,245.0	3rd BS W Sand			
12,353.0	12,345.0	Wolfcamp A X Sand			
12,383.0	12,375.0	Wolfcamp A Y Sand			
12,443.0	12,435.0	Wolfcamp A Lower			
12,630.4	12,620.0	Wolfcamp B			
12,727.4	12,710.0	Wolfcamp B1			
12,839.8	12,805.0	Wolfcamp C			
12,981.2	12,905.0	Wolfcamp D			
12,982.8	12,906.0	Wolfcamp E			



Intrepid Planning Report



Database:	EDM 5000.15 Single User Db	Local Co-ordinate Reference:	Well Cosmo K Fee #223H
Company:	Tap Rock Resources, LLC	TVD Reference:	KB @ 3314.0usft (H&P 466)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	KB @ 3314.0usft (H&P 466)
Site:	(Cosmo) Sec-33_T-24-S_R-35-E	North Reference:	Grid
Well:	Cosmo K Fee #223H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	Plan #3		

Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	NUDGE - Build 1.00
1,950.3	1,949.8	-17.7	0.4	HOLD - 2282.4 at 1950.3 MD
4,232.7	4,225.2	-196.8	4.6	DROP - -1.00
4,683.0	4,675.0	-214.5	5.0	HOLD - 7779.0 at 4683.0 MD
12,462.0	12,454.0	-214.5	5.0	KOP - Build 10.00
13,382.0	13,026.6	375.1	68.0	EOC/TRN - DLS 2.00 TFO -89.91
13,714.4	13,015.0	706.7	84.1	Start 5609.9 hold at 13714.4 MD
19,324.3	12,819.6	6,313.0	30.0	TD at 19324.3

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District IV

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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 26460

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 26460
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
pkautz	None	5/18/2021