

Well Name: UPSLOPE FED COM	Well Location: T25S / R25E / SEC 10 / SENE / 32.1451318 / -104.3769973	County or Parish/State: EDDY / NM
Well Number: 211H	Type of Well: CONVENTIONAL GAS WELL	Allottee or Tribe Name:
Lease Number: NMNM62171	Unit or CA Name:	Unit or CA Number:
US Well Number: 3001556197	Operator: TAP ROCK OPERATING LLC	

Notice of Intent

Sundry ID: 2854042

Type of Submission: Notice of Intent

Type of Action: APD Change

Date Sundry Submitted: 05/21/2025

Time Sundry Submitted: 09:29

Date proposed operation will begin: 07/01/2025

Procedure Description: Tap Rock Requests permission to alter the following information on the Upslope Fed Com 211H Surface Hole Location, casing tables/setting depth, cement tables, mud tables. Tap Rock Operating requests to move the Upslope Fed Com 211H off of its current drill pad onto the already approved High Life Fed Com drill pad to limit surface disturbance. Per the BLM NRS: "Because this change would be "to our benefit" - in other words, it significantly reduces surface disturbance - we should be able to do this with a Sundry Notice... It'll be some more work for Adjudication but this sort of effort has been made and completed before." Surface Hole Location: Previously at 2357 FNL, 551 FEL Section 10, Township 25S, Range 25E New Surface Hole Location: 1808 FNL, 275 FEL, Section 10, Township 25S, Range 25E Due to the surface move, new Directional Plans have been attached. Tap Rock would also like to alter the setting depth for all casing strings. Please see updated casing tables for all pertinent information on this well.

NOI Attachments

Procedure Description

Upslope_Fed_Com_211H_Sundry_Attachment_20250521_20250521092940.pdf

Well Name: UPSLOPE FED COM

Well Location: T25S / R25E / SEC 10 / SENE / 32.1451318 / -104.3769973

County or Parish/State: EDDY / NM

Well Number: 211H

Type of Well: CONVENTIONAL GAS WELL

Allottee or Tribe Name:

Lease Number: NMNM62171

Unit or CA Name:

Unit or CA Number:

US Well Number: 3001556197

Operator: TAP ROCK OPERATING LLC

Conditions of Approval

Additional

Sec_10_25S_25E_NMP_Sundry_2854042_Upslope_Fed_Com_211H_COAs_20250605090702.pdf

Operator

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

Operator Electronic Signature: BILL RAMSEY

Signed on: MAY 21, 2025 09:29 AM

Name: TAP ROCK OPERATING LLC

Title: Regulatory Analyst

Street Address: 1700 LINCOLN ST SUITE 4700

City: DENVER

State: CO

Phone: (720) 360-4028

Email address: BRAMSEY@TAPRK.COM

Field

Representative Name:

Street Address:

City:

State:

Zip:

Phone:

Email address:

BLM Point of Contact

BLM POC Name: CHRISTOPHER WALLS

BLM POC Title: Petroleum Engineer

BLM POC Phone: 5752342234

BLM POC Email Address: cwalls@blm.gov

Disposition: Approved

Disposition Date: 06/25/2025

Signature: Chris Walls

Upslope Fed Com 211H

Tap Rock Requests permission to alter the following information on the Upslope Fed Com 211H

Surface Hole Location, casing tables/setting depth, cement tables, mud tables.

Tap Rock Operating requests to move the Upslope Fed Com 211H off of its current drill pad onto the already approved High Life Fed Com drill pad to limit surface disturbance. Per the BLM NRS: "Because this change would be "to our benefit" - in other words, it significantly reduces surface disturbance - we should be able to do this with a Sundry Notice... It'll be some more work for Adjudication but this sort of effort has been made and completed before."

Surface Hole Location: Previously at 2357 FNL, 551 FEL Section 10, Township 25S, Range 25E

New Surface Hole Location: 1808 FNL, 275 FEL, Section 10, Township 25S, Range 25E

Due to the surface move, new Directional Plans have been attached. Tap Rock would also like to alter the setting depth for all casing strings. Please see updated casing tables for all pertinent information on this well.

Section	Drilled Interval			Casing Size	Standard	Tapered	Casing Set Depths				Casing Details					
	Hole Size	Top	Btm				Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	14 3/4	0	420	11 3/4	API	No	0	420	0	420	J-55	42	BUTT	1.13	1.15	1.6
Intermediate	11	420	1,514	8 5/8	API	No	0	1,514	0	1,513	J-55	32	BUTT	1.13	1.15	1.6
Production	7 7/8	1,514	18,560	5 1/2	NON API	No	0	18,560	0	7,965	P-110	20	TXP	1.13	1.15	1.6

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	274	1.33	364	14.8	100%	C	5% NCI + LCM
Intermediate	Lead	0	139	2.7	375	11.0	75%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	1014	124	1.33	165	14.8	30%	C	5% NaCl + LCM
Production	Lead	1314	392	3.35	1313	10.5	20%	C	Fluid Loss + Dispersant + Retarder + LCM
	Tail	7649	1394	1.63	2272	13.2	20%	H	Fluid Loss + Dispersant + Retarder + LCM

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	420	FW Spud Mud	8.40	27-30	NC
Intermediate	420	1,514	Salt-saturated Mud	10.00	27-30	NC
Production	1,514	18,560	FW/Cut Brine	9.00	27-30	NC

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☐ Amended Report
		☐ As Drilled	

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-56197	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 337038	Property Name UPSLOPE FED COM	Well Number 211H
OGRID No. 372043	Operator Name TAP ROCK OPERATING, LLC.	Ground Level Elevation 3512'
Surface Owner: ☐ State ☒ Fee ☐ Tribal ☐ Federal		Mineral Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal

Surface Location

UL or lot no. H	Section 10	Township 25-S	Range 25-E	Lot Idn -	Feet from the N/S 1808' N	Feet from the E/W 275' E	Latitude N 32.1466392	Longitude W 104.3761246	County EDDY
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Bottom Hole Location

UL or lot no. D	Section 9	Township 25-S	Range 25-E	Lot Idn -	Feet from the N/S 990' N	Feet from the E/W 5' W	Latitude N 32.1489739	Longitude W 104.4098110	County EDDY
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Dedicated Acres 1280	Infill or Defining Well Infill	Defining Well API 30-015-56196	Overlapping Spacing Unit (Y/N) Y	Consolidated Code N/A
Order Numbers R-23545			Well Setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL or lot no. A	Section 10	Township 25-S	Range 25-E	Lot Idn -	Feet from the N/S 990' N	Feet from the E/W 50' E	Latitude N 32.1488840	Longitude W 104.3754248	County EDDY
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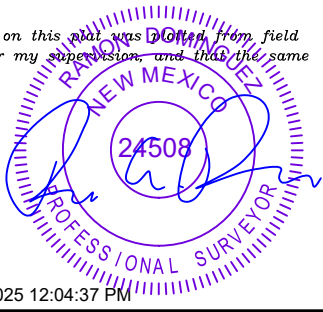
First Take Point (FTP)

UL or lot no. A	Section 10	Township 25-S	Range 25-E	Lot Idn -	Feet from the N/S 990' N	Feet from the E/W 330' E	Latitude N 32.1488864	Longitude W 104.3763296	County EDDY
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Last Take Point (LTP)

UL or lot no. D	Section 9	Township 25-S	Range 25-E	Lot Idn -	Feet from the N/S 990' N	Feet from the E/W 330' W	Latitude N 32.1489713	Longitude W 104.4087608	County EDDY
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Unitized Area or Area of Uniform Interest ----	Spacing Unity Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation 1
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OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i> William Ramsey 5/21/2025 Signature Date Bill Ramsey Print Name bramsey@taprk.com E-mail Address		SURVEYORS CERTIFICATION <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>  4/30/2025 12:04:37 PM Signature and Seal of Professional Surveyor Date Certificate Number Date of Survey 04/17/2025	
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C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION	Revised July 9, 2024	
		Submittal Type:	☐ Initial Submittal
			☐ Amended Report
Property Name and Well Number		☐ As Drilled	

UPSLOPE FED COM 211H

SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983

X=528094 Y=417085
LAT.: N 32.1466392
LONG.: W 104.3761246

NAD 1927

X=486912 Y=417029
LAT.: N 32.1465216
LONG.: W 104.3756204
1808' FNL 275' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983

X=528311 Y=417902
LAT.: N 32.1488840
LONG.: W 104.3754248

NAD 1927

X=487129 Y=417845
LAT.: N 32.1487663
LONG.: W 104.3749208
990' FNL 50' FEL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983

X=528031 Y=417903
LAT.: N 32.1488864
LONG.: W 104.3763296

NAD 1927

X=486849 Y=417846
LAT.: N 32.1487689
LONG.: W 104.3758253
990' FNL 330' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983

X=517994 Y=417939
LAT.: N 32.1489713
LONG.: W 104.4087608

NAD 1927

X=476812 Y=417883
LAT.: N 32.1488545
LONG.: W 104.4082555
990' FNL 330' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983

X=517669 Y=417941
LAT.: N 32.1489739
LONG.: W 104.4098110

NAD 1927

X=476487 Y=417884
LAT.: N 32.1488571
LONG.: W 104.4093056
990' FNL 5' FWL

SURVEYORS CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

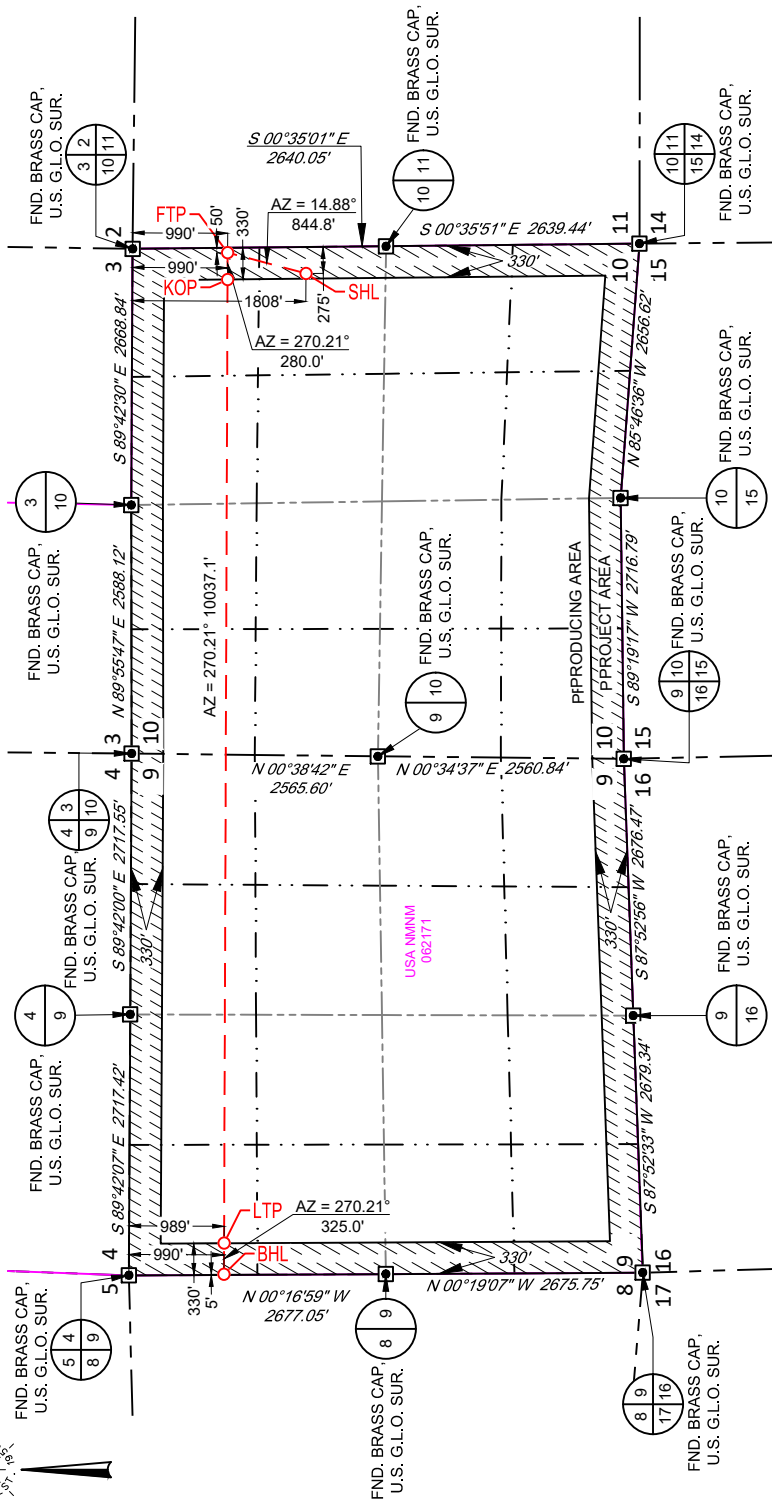
04/17/2025
Date of Survey
Signature and Seal of Professional Surveyor:

Released to Imaging: 8/7/2025 2:59:09 PM

4/30/2025 12:04:37 PM



SECTION 10, TOWNSHIP 25-S, RANGE 25-E, N.M.P.M.
EDDY COUNTY, NEW MEXICO



SURFACE LOCATION (SHL)

NEW MEXICO EAST
NAD 1983
X=528094 Y=417085
LAT.: N 32.1466392
LONG.: W 104.3761246
1808' FNL 275' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST
NAD 1983
X=528311 Y=417902
LAT.: N 32.1488840
LONG.: W 104.3754248
990' FNL 50' FEL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST
NAD 1983
X=528031 Y=417903
LAT.: N 32.1488864
LONG.: W 104.3763296
990' FNL 330' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST
NAD 1983
X=517994 Y=417939
LAT.: N 32.1489713
LONG.: W 104.4087608
990' FNL 330' FWL

BOTTOM HOLE LOCATION (BHL)

NEW MEXICO EAST
NAD 1983
X=517669 Y=417941
LAT.: N 32.1489739
LONG.: W 104.4098110
990' FNL 5' FWL

LEASE NAME & WELL NO.: UPSLOPE FED COM 211H

SECTION 10 TWP 25-S RGE 25-E SURVEY N.M.P.M.
COUNTY EDDY STATE NM
DESCRIPTION 1808' FNL & 275' FEL

DISTANCE & DIRECTION

FROM INT. OF BLACK RIVER VILLAGE RD. & US-180 W/US-62 W. GO
SOUTHEAST ON US-180 W/US-62 W ±9.6 MILES. THENCE MAKE A U-TURN
±2.9 MILES, THENCE EAST (RIGHT) ON WHITES CITY RD. ±1.2 MILES,
THENCE WEST (RIGHT) ON A PROPOSED RD. ±483 FEET TO A POINT
±348 FEET NORTHWEST OF THE LOCATION.



4/30/2025 12:04:38 PM

Ramon A. Dominguez , P.S. No. 24508

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET

THIS EASEMENT/SERVITUDE 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.

AS OF THE DATE OF SURVEY, ALL ABOVE GROUND APPURTENANCES WITHIN 300' OF THE STAKED LOCATION ARE SHOWN HEREON.

TOPOGRAPHIC
LOYALTY INNOVATION LEGACY

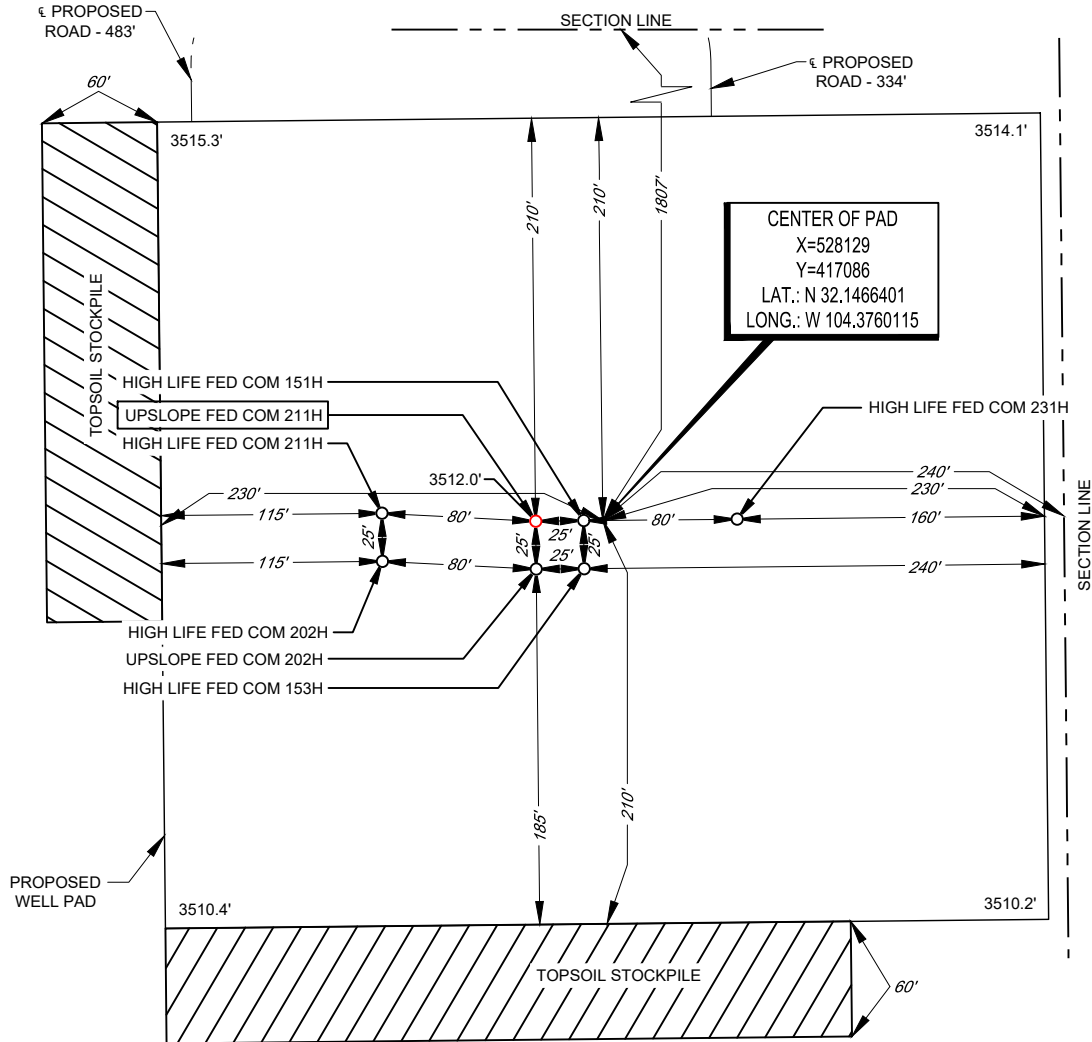
481 WINSOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126
TELEPHONE: (817) 744-7512 • FAX (817) 744-7554
2903 NORTH BIG SPRING • MIDLAND, TEXAS 79705
TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
WWW.TOPOGRAPHIC.COM



LEGEND

--- SECTION LINE
 --- PROPOSED ROAD

SECTION 10, TOWNSHIP 25-S, RANGE 25-E, N.M.P.M.
 EDDY COUNTY, NEW MEXICO



4/30/2025 12:04:39 PM

Ramon A. Dominguez , P.S. No. 24508

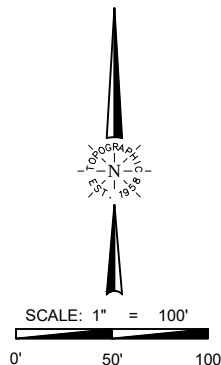
LEASE NAME & WELL NO.: UPSLOPE FED COM 211H
 211H LATITUDE N 32.1466392 211H LONGITUDE W 104.3761246

CENTER OF PAD IS 1807' FNL & 240' FEL

ALL BEARINGS, DISTANCES, AND COORDINATE VALUES CONTAINED HEREON ARE GRID BASED UPON THE NEW MEXICO COORDINATE SYSTEM OF 1983, EAST ZONE, U.S. SURVEY FEET. ELEVATIONS USED ARE NAVD88, OBTAINED THROUGH AN OPUS SOLUTION.

THIS PROPOSED PAD SITE 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. ONLY THE DATA SHOWN ABOVE IS BEING CERTIFIED TO, ALL OTHER INFORMATION WAS INTENTIONALLY OMITTED. THIS PLAT IS ONLY INTENDED TO BE USED FOR A PERMIT AND IS NOT A BOUNDARY SURVEY. 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.

ORIGINAL DOCUMENT SIZE: 8.5" X 11"



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 TELEPHONE: (432) 682-1653 OR (800) 767-1653 • FAX (432) 682-1743
 WWW.TOPOGRAPHIC.COM



Geodetic System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone: New Mexico Eastern Zone
System Datum: Mean Sea Level

SECTION DETAILS

Depth From	Depth To	Survey/Plan	Tool
0.00	18560.35	Design #3 (Wellbore #1)	MWD+IFR1+SAG+FDIR





Tap Rock Operating

Eddy County, New Mexico (NAD 83)

High Life Fed Com(151,153,231) Upslope(202, 211)

Upslope Fed Com 211H

Wellbore #1

Plan: Design #3

Standard Planning Report

20 May, 2025





Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Project	Eddy County, New Mexico (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	High Life Fed Com(151,153,231) Upslope(202, 211)		
Site Position:		Northing:	417,064.55 usft
From:	Map	Easting:	528,094.11 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 8' 47.694 N
		Longitude:	104° 22' 34.046 W

Well	Upslope Fed Com 211H		
Well Position	+N/-S	0.00 usft	Northing: 417,085.44 usft
	+E/-W	0.00 usft	Easting: 528,093.87 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
Grid Convergence:	-0.023 °	Ground Level:	3,512.00 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2025	2/11/2025	6.867	59.567	47,130.80

Design	Design #3			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.00	0.00	0.00	270.22

Plan Survey Tool Program	Date	5/20/2025		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.00	18,560.35	Design #3 (Wellbore #1)	MWD+IFR1+SAG+FDIR
				OWSG MWD + IFR1 + Sag



Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,809.05	8.09	15.12	1,806.36	55.05	14.87	1.00	1.00	0.00	15.115	
5,539.82	8.09	15.12	5,500.01	561.95	151.79	0.00	0.00	0.00	0.000	
6,348.87	0.00	0.00	6,306.37	617.00	166.66	1.00	-1.00	0.00	180.000	
7,648.50	0.00	0.00	7,606.00	617.00	166.66	0.00	0.00	0.00	0.000	
8,478.50	91.30	283.40	8,126.74	740.45	-351.53	11.00	11.00	0.00	283.400	
9,139.33	90.30	270.22	8,117.45	818.62	-1,006.17	2.00	-0.15	-1.99	-94.215	
14,586.24	90.30	270.22	8,088.66	839.51	-6,452.97	0.00	0.00	0.00	0.000	6500' VS v3_Upslo
14,660.74	91.79	270.22	8,087.30	839.80	-6,527.45	2.00	2.00	0.01	0.188	
18,560.35	91.79	270.22	7,965.30	855.08	-10,425.13	0.00	0.00	0.00	0.000	PBHL v3_Upslope :



Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37.00	0.00	0.00	37.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
337.00	0.00	0.00	337.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP, 1.00°/100' Build									
1,100.00	1.00	15.12	1,099.99	0.84	0.23	-0.22	1.00	1.00	0.00
1,200.00	2.00	15.12	1,199.96	3.37	0.91	-0.90	1.00	1.00	0.00
1,236.07	2.36	15.12	1,236.00	4.69	1.27	-1.25	1.00	1.00	0.00
Base Salt									
1,300.00	3.00	15.12	1,299.86	7.58	2.05	-2.02	1.00	1.00	0.00
1,400.00	4.00	15.12	1,399.68	13.47	3.64	-3.59	1.00	1.00	0.00
1,462.50	4.63	15.12	1,462.00	18.01	4.86	-4.80	1.00	1.00	0.00
Delaware Mountain Gp									
1,463.51	4.64	15.12	1,463.00	18.09	4.89	-4.82	1.00	1.00	0.00
Lamar									
1,492.61	4.93	15.12	1,492.00	20.43	5.52	-5.44	1.00	1.00	0.00
Bell Canyon									
1,500.00	5.00	15.12	1,499.37	21.05	5.69	-5.60	1.00	1.00	0.00
1,586.02	5.86	15.12	1,585.00	28.91	7.81	-7.70	1.00	1.00	0.00
Ramsey Sand									
1,600.00	6.00	15.12	1,598.90	30.30	8.18	-8.07	1.00	1.00	0.00
1,700.00	7.00	15.12	1,698.26	41.23	11.14	-10.98	1.00	1.00	0.00
1,809.05	8.09	15.12	1,806.36	55.05	14.87	-14.66	1.00	1.00	0.00
Begin 8.09° Tangent									
1,900.00	8.09	15.12	1,896.41	67.41	18.21	-17.95	0.00	0.00	0.00
2,000.00	8.09	15.12	1,995.41	81.00	21.88	-21.57	0.00	0.00	0.00
2,100.00	8.09	15.12	2,094.42	94.58	25.55	-25.18	0.00	0.00	0.00
2,200.00	8.09	15.12	2,193.42	108.17	29.22	-28.80	0.00	0.00	0.00
2,300.00	8.09	15.12	2,292.43	121.76	32.89	-32.42	0.00	0.00	0.00
2,400.00	8.09	15.12	2,391.43	135.34	36.56	-36.04	0.00	0.00	0.00
2,418.75	8.09	15.12	2,410.00	137.89	37.25	-36.72	0.00	0.00	0.00
Cherry Canyon									
2,500.00	8.09	15.12	2,490.44	148.93	40.23	-39.66	0.00	0.00	0.00
2,600.00	8.09	15.12	2,589.44	162.52	43.90	-43.27	0.00	0.00	0.00
2,700.00	8.09	15.12	2,688.45	176.11	47.57	-46.89	0.00	0.00	0.00
2,800.00	8.09	15.12	2,787.45	189.69	51.24	-50.51	0.00	0.00	0.00
2,900.00	8.09	15.12	2,886.46	203.28	54.91	-54.13	0.00	0.00	0.00
3,000.00	8.09	15.12	2,985.46	216.87	58.58	-57.74	0.00	0.00	0.00
3,100.00	8.09	15.12	3,084.47	230.45	62.25	-61.36	0.00	0.00	0.00
3,200.00	8.09	15.12	3,183.47	244.04	65.92	-64.98	0.00	0.00	0.00
3,300.00	8.09	15.12	3,282.47	257.63	69.59	-68.60	0.00	0.00	0.00



Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
3,348.00	8.09	15.12	3,330.00	264.15	71.35	-70.33	0.00	0.00	0.00
Brushy Canyon									
3,400.00	8.09	15.12	3,381.48	271.21	73.26	-72.21	0.00	0.00	0.00
3,500.00	8.09	15.12	3,480.48	284.80	76.93	-75.83	0.00	0.00	0.00
3,600.00	8.09	15.12	3,579.49	298.39	80.60	-79.45	0.00	0.00	0.00
3,700.00	8.09	15.12	3,678.49	311.97	84.27	-83.07	0.00	0.00	0.00
3,800.00	8.09	15.12	3,777.50	325.56	87.94	-86.69	0.00	0.00	0.00
3,900.00	8.09	15.12	3,876.50	339.15	91.61	-90.30	0.00	0.00	0.00
4,000.00	8.09	15.12	3,975.51	352.73	95.28	-93.92	0.00	0.00	0.00
4,100.00	8.09	15.12	4,074.51	366.32	98.95	-97.54	0.00	0.00	0.00
4,200.00	8.09	15.12	4,173.52	379.91	102.62	-101.16	0.00	0.00	0.00
4,300.00	8.09	15.12	4,272.52	393.49	106.29	-104.77	0.00	0.00	0.00
4,400.00	8.09	15.12	4,371.53	407.08	109.96	-108.39	0.00	0.00	0.00
4,500.00	8.09	15.12	4,470.53	420.67	113.63	-112.01	0.00	0.00	0.00
4,600.00	8.09	15.12	4,569.54	434.25	117.29	-115.63	0.00	0.00	0.00
4,700.00	8.09	15.12	4,668.54	447.84	120.96	-119.24	0.00	0.00	0.00
4,800.00	8.09	15.12	4,767.55	461.43	124.63	-122.86	0.00	0.00	0.00
4,900.00	8.09	15.12	4,866.55	475.01	128.30	-126.48	0.00	0.00	0.00
5,000.00	8.09	15.12	4,965.55	488.60	131.97	-130.10	0.00	0.00	0.00
5,043.88	8.09	15.12	5,009.00	494.56	133.58	-131.68	0.00	0.00	0.00
Bone Spring Lime									
5,100.00	8.09	15.12	5,064.56	502.19	135.64	-133.72	0.00	0.00	0.00
5,135.80	8.09	15.12	5,100.00	507.05	136.96	-135.01	0.00	0.00	0.00
Upper Avalon									
5,200.00	8.09	15.12	5,163.56	515.78	139.31	-137.33	0.00	0.00	0.00
5,300.00	8.09	15.12	5,262.57	529.36	142.98	-140.95	0.00	0.00	0.00
5,400.00	8.09	15.12	5,361.57	542.95	146.65	-144.57	0.00	0.00	0.00
5,472.14	8.09	15.12	5,433.00	552.75	149.30	-147.18	0.00	0.00	0.00
Middle Avalon									
5,500.00	8.09	15.12	5,460.58	556.54	150.32	-148.19	0.00	0.00	0.00
5,539.82	8.09	15.12	5,500.01	561.95	151.79	-149.63	0.00	0.00	0.00
Begin 1.00°/100' Drop									
5,600.00	7.49	15.12	5,559.63	569.82	153.91	-151.72	1.00	-1.00	0.00
5,700.00	6.49	15.12	5,658.88	581.57	157.08	-154.85	1.00	-1.00	0.00
5,769.52	5.79	15.12	5,728.00	588.75	159.02	-156.76	1.00	-1.00	0.00
Lower Avalon									
5,800.00	5.49	15.12	5,758.33	591.64	159.81	-157.53	1.00	-1.00	0.00
5,900.00	4.49	15.12	5,857.95	600.03	162.07	-159.77	1.00	-1.00	0.00
5,910.08	4.39	15.12	5,868.00	600.79	162.28	-159.97	1.00	-1.00	0.00
1st Bone Spring Sand									
6,000.00	3.49	15.12	5,957.71	606.75	163.89	-161.56	1.00	-1.00	0.00
6,100.00	2.49	15.12	6,057.57	611.78	165.25	-162.90	1.00	-1.00	0.00
6,200.00	1.49	15.12	6,157.51	615.13	166.15	-163.79	1.00	-1.00	0.00
6,258.50	0.90	15.12	6,216.00	616.31	166.47	-164.10	1.00	-1.00	0.00
2nd Bone Spring Carb									
6,300.00	0.49	15.12	6,257.50	616.80	166.60	-164.23	1.00	-1.00	0.00
6,348.87	0.00	0.00	6,306.37	617.00	166.66	-164.29	1.00	-1.00	-30.93
Begin Vertical Hold									
6,400.00	0.00	0.00	6,357.50	617.00	166.66	-164.29	0.00	0.00	0.00
6,491.50	0.00	0.00	6,449.00	617.00	166.66	-164.29	0.00	0.00	0.00
2nd Bone Spring Sand									
6,500.00	0.00	0.00	6,457.50	617.00	166.66	-164.29	0.00	0.00	0.00



Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
6,600.00	0.00	0.00	6,557.50	617.00	166.66	-164.29	0.00	0.00	0.00
6,700.00	0.00	0.00	6,657.50	617.00	166.66	-164.29	0.00	0.00	0.00
6,800.00	0.00	0.00	6,757.50	617.00	166.66	-164.29	0.00	0.00	0.00
6,829.50	0.00	0.00	6,787.00	617.00	166.66	-164.29	0.00	0.00	0.00
3rd Bone Spring Carb									
6,900.00	0.00	0.00	6,857.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,000.00	0.00	0.00	6,957.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,100.00	0.00	0.00	7,057.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,200.00	0.00	0.00	7,157.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,300.00	0.00	0.00	7,257.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,400.00	0.00	0.00	7,357.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,500.00	0.00	0.00	7,457.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,600.00	0.00	0.00	7,557.50	617.00	166.66	-164.29	0.00	0.00	0.00
7,648.50	0.00	0.00	7,606.00	617.00	166.66	-164.29	0.00	0.00	0.00
KOP, 11.00°/100' Build									
7,650.00	0.16	283.40	7,607.50	617.00	166.65	-164.28	11.00	11.00	0.00
7,700.00	5.66	283.40	7,657.41	617.59	164.18	-161.81	11.00	11.00	0.00
7,740.99	10.17	283.40	7,698.00	618.90	158.69	-156.31	11.00	11.00	0.00
3rd Bone Spring Sand									
7,750.00	11.16	283.40	7,706.85	619.28	157.07	-154.69	11.00	11.00	0.00
7,800.00	16.66	283.40	7,755.37	622.07	145.37	-142.99	11.00	11.00	0.00
7,850.00	22.16	283.40	7,802.51	625.92	129.21	-126.81	11.00	11.00	0.00
7,900.00	27.66	283.40	7,847.84	630.80	108.73	-106.31	11.00	11.00	0.00
7,950.00	33.16	283.40	7,890.94	636.66	84.12	-81.67	11.00	11.00	0.00
8,000.00	38.66	283.40	7,931.42	643.46	55.60	-53.13	11.00	11.00	0.00
8,005.89	39.31	283.40	7,936.00	644.32	51.99	-49.52	11.00	11.00	0.00
3rd BS W Sand									
8,050.00	44.16	283.40	7,968.90	651.12	23.44	-20.94	11.00	11.00	0.00
8,100.00	49.66	283.40	8,003.04	659.58	-12.07	14.61	11.00	11.00	0.00
8,150.00	55.16	283.40	8,033.53	668.76	-50.60	53.17	11.00	11.00	0.00
8,191.79	59.76	283.40	8,056.00	676.92	-84.87	87.46	11.00	11.00	0.00
Wolfcamp A X Sand									
8,200.00	60.66	283.40	8,060.08	678.57	-91.80	94.40	11.00	11.00	0.00
8,250.00	66.16	283.40	8,082.45	688.93	-135.28	137.92	11.00	11.00	0.00
8,300.00	71.66	283.40	8,100.43	699.74	-180.64	183.33	11.00	11.00	0.00
8,350.00	77.16	283.40	8,113.86	710.89	-227.47	230.20	11.00	11.00	0.00
8,388.41	81.39	283.40	8,121.00	719.64	-264.18	266.94	11.00	11.00	0.00
Wolfcamp A Y Sand									
8,400.00	82.66	283.40	8,122.61	722.30	-275.34	278.11	11.00	11.00	0.00
8,450.00	88.16	283.40	8,126.60	733.84	-323.81	326.62	11.00	11.00	0.00
8,478.50	91.30	283.40	8,126.74	740.45	-351.53	354.37	11.00	11.00	0.00
Begin 91.30° Lateral, 2.00°/100' Turn									
8,500.00	91.27	282.97	8,126.26	745.35	-372.45	375.31	2.00	-0.15	-2.00
8,600.00	91.12	280.98	8,124.17	766.09	-470.25	473.19	2.00	-0.15	-1.99
8,700.00	90.97	278.98	8,122.35	783.42	-568.72	571.72	2.00	-0.15	-1.99
8,800.00	90.82	276.99	8,120.78	797.30	-667.73	670.79	2.00	-0.15	-1.99
8,900.00	90.67	274.99	8,119.48	807.74	-767.17	770.27	2.00	-0.15	-1.99
9,000.00	90.52	273.00	8,118.45	814.70	-866.92	870.04	2.00	-0.15	-1.99
9,100.00	90.36	271.00	8,117.68	818.20	-966.85	969.98	2.00	-0.15	-1.99
9,139.33	90.30	270.22	8,117.45	818.62	-1,006.17	1,009.31	2.00	-0.15	-1.99
Hold 90.30° Inc, 270.22° Azm									
9,200.00	90.30	270.22	8,117.13	818.85	-1,066.85	1,069.98	0.00	0.00	0.00



Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
9,300.00	90.30	270.22	8,116.60	819.23	-1,166.84	1,169.98	0.00	0.00	0.00
9,400.00	90.30	270.22	8,116.08	819.62	-1,266.84	1,269.98	0.00	0.00	0.00
9,500.00	90.30	270.22	8,115.55	820.00	-1,366.84	1,369.98	0.00	0.00	0.00
9,600.00	90.30	270.22	8,115.02	820.38	-1,466.84	1,469.98	0.00	0.00	0.00
9,700.00	90.30	270.22	8,114.49	820.77	-1,566.83	1,569.97	0.00	0.00	0.00
9,800.00	90.30	270.22	8,113.96	821.15	-1,666.83	1,669.97	0.00	0.00	0.00
9,900.00	90.30	270.22	8,113.43	821.53	-1,766.83	1,769.97	0.00	0.00	0.00
10,000.00	90.30	270.22	8,112.90	821.92	-1,866.83	1,869.97	0.00	0.00	0.00
10,100.00	90.30	270.22	8,112.37	822.30	-1,966.83	1,969.97	0.00	0.00	0.00
10,200.00	90.30	270.22	8,111.85	822.68	-2,066.82	2,069.97	0.00	0.00	0.00
10,300.00	90.30	270.22	8,111.32	823.07	-2,166.82	2,169.97	0.00	0.00	0.00
10,400.00	90.30	270.22	8,110.79	823.45	-2,266.82	2,269.96	0.00	0.00	0.00
10,500.00	90.30	270.22	8,110.26	823.84	-2,366.82	2,369.96	0.00	0.00	0.00
10,600.00	90.30	270.22	8,109.73	824.22	-2,466.82	2,469.96	0.00	0.00	0.00
10,700.00	90.30	270.22	8,109.20	824.60	-2,566.81	2,569.96	0.00	0.00	0.00
10,800.00	90.30	270.22	8,108.67	824.99	-2,666.81	2,669.96	0.00	0.00	0.00
10,900.00	90.30	270.22	8,108.15	825.37	-2,766.81	2,769.96	0.00	0.00	0.00
11,000.00	90.30	270.22	8,107.62	825.75	-2,866.81	2,869.96	0.00	0.00	0.00
11,100.00	90.30	270.22	8,107.09	826.14	-2,966.80	2,969.95	0.00	0.00	0.00
11,200.00	90.30	270.22	8,106.56	826.52	-3,066.80	3,069.95	0.00	0.00	0.00
11,300.00	90.30	270.22	8,106.03	826.90	-3,166.80	3,169.95	0.00	0.00	0.00
11,400.00	90.30	270.22	8,105.50	827.29	-3,266.80	3,269.95	0.00	0.00	0.00
11,500.00	90.30	270.22	8,104.97	827.67	-3,366.80	3,369.95	0.00	0.00	0.00
11,600.00	90.30	270.22	8,104.45	828.05	-3,466.79	3,469.95	0.00	0.00	0.00
11,700.00	90.30	270.22	8,103.92	828.44	-3,566.79	3,569.95	0.00	0.00	0.00
11,800.00	90.30	270.22	8,103.39	828.82	-3,666.79	3,669.95	0.00	0.00	0.00
11,900.00	90.30	270.22	8,102.86	829.21	-3,766.79	3,769.94	0.00	0.00	0.00
12,000.00	90.30	270.22	8,102.33	829.59	-3,866.79	3,869.94	0.00	0.00	0.00
12,100.00	90.30	270.22	8,101.80	829.97	-3,966.78	3,969.94	0.00	0.00	0.00
12,200.00	90.30	270.22	8,101.27	830.36	-4,066.78	4,069.94	0.00	0.00	0.00
12,300.00	90.30	270.22	8,100.75	830.74	-4,166.78	4,169.94	0.00	0.00	0.00
12,400.00	90.30	270.22	8,100.22	831.12	-4,266.78	4,269.94	0.00	0.00	0.00
12,500.00	90.30	270.22	8,099.69	831.51	-4,366.77	4,369.94	0.00	0.00	0.00
12,600.00	90.30	270.22	8,099.16	831.89	-4,466.77	4,469.93	0.00	0.00	0.00
12,700.00	90.30	270.22	8,098.63	832.27	-4,566.77	4,569.93	0.00	0.00	0.00
12,800.00	90.30	270.22	8,098.10	832.66	-4,666.77	4,669.93	0.00	0.00	0.00
12,900.00	90.30	270.22	8,097.57	833.04	-4,766.77	4,769.93	0.00	0.00	0.00
13,000.00	90.30	270.22	8,097.05	833.43	-4,866.76	4,869.93	0.00	0.00	0.00
13,100.00	90.30	270.22	8,096.52	833.81	-4,966.76	4,969.93	0.00	0.00	0.00
13,200.00	90.30	270.22	8,095.99	834.19	-5,066.76	5,069.93	0.00	0.00	0.00
13,300.00	90.30	270.22	8,095.46	834.58	-5,166.76	5,169.92	0.00	0.00	0.00
13,400.00	90.30	270.22	8,094.93	834.96	-5,266.76	5,269.92	0.00	0.00	0.00
13,500.00	90.30	270.22	8,094.40	835.34	-5,366.75	5,369.92	0.00	0.00	0.00
13,600.00	90.30	270.22	8,093.87	835.73	-5,466.75	5,469.92	0.00	0.00	0.00
13,700.00	90.30	270.22	8,093.35	836.11	-5,566.75	5,569.92	0.00	0.00	0.00
13,800.00	90.30	270.22	8,092.82	836.49	-5,666.75	5,669.92	0.00	0.00	0.00
13,900.00	90.30	270.22	8,092.29	836.88	-5,766.74	5,769.92	0.00	0.00	0.00
14,000.00	90.30	270.22	8,091.76	837.26	-5,866.74	5,869.91	0.00	0.00	0.00
14,100.00	90.30	270.22	8,091.23	837.64	-5,966.74	5,969.91	0.00	0.00	0.00
14,200.00	90.30	270.22	8,090.70	838.03	-6,066.74	6,069.91	0.00	0.00	0.00
14,300.00	90.30	270.22	8,090.17	838.41	-6,166.74	6,169.91	0.00	0.00	0.00
14,400.00	90.30	270.22	8,089.65	838.80	-6,266.73	6,269.91	0.00	0.00	0.00
14,500.00	90.30	270.22	8,089.12	839.18	-6,366.73	6,369.91	0.00	0.00	0.00



Planning Report



Database:	TRG_EDMConroe	Local Co-ordinate Reference:	Well Upslope Fed Com 211H
Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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)
14,586.24	90.30	270.22	8,088.66	839.51	-6,452.97	6,456.15	0.00	0.00	0.00
Begin 2.00°/100' Build									
14,600.00	90.58	270.22	8,088.56	839.56	-6,466.73	6,469.91	2.00	2.00	0.01
14,660.74	91.79	270.22	8,087.30	839.80	-6,527.45	6,530.63	2.00	2.00	0.01
Hold 91.79° Inc, 270.22° Azm									
14,700.00	91.79	270.22	8,086.07	839.95	-6,566.70	6,569.87	0.00	0.00	0.00
14,800.00	91.79	270.22	8,082.94	840.34	-6,666.65	6,669.82	0.00	0.00	0.00
14,900.00	91.79	270.22	8,079.81	840.74	-6,766.60	6,769.77	0.00	0.00	0.00
15,000.00	91.79	270.22	8,076.69	841.13	-6,866.55	6,869.73	0.00	0.00	0.00
15,100.00	91.79	270.22	8,073.56	841.52	-6,966.50	6,969.68	0.00	0.00	0.00
15,200.00	91.79	270.22	8,070.43	841.91	-7,066.45	7,069.63	0.00	0.00	0.00
15,300.00	91.79	270.22	8,067.30	842.30	-7,166.40	7,169.58	0.00	0.00	0.00
15,400.00	91.79	270.22	8,064.17	842.70	-7,266.35	7,269.53	0.00	0.00	0.00
15,500.00	91.79	270.22	8,061.04	843.09	-7,366.30	7,369.48	0.00	0.00	0.00
15,600.00	91.79	270.22	8,057.91	843.48	-7,466.25	7,469.43	0.00	0.00	0.00
15,700.00	91.79	270.22	8,054.79	843.87	-7,566.20	7,569.38	0.00	0.00	0.00
15,800.00	91.79	270.22	8,051.66	844.26	-7,666.15	7,669.33	0.00	0.00	0.00
15,900.00	91.79	270.22	8,048.53	844.66	-7,766.10	7,769.29	0.00	0.00	0.00
16,000.00	91.79	270.22	8,045.40	845.05	-7,866.05	7,869.24	0.00	0.00	0.00
16,100.00	91.79	270.22	8,042.27	845.44	-7,966.00	7,969.19	0.00	0.00	0.00
16,200.00	91.79	270.22	8,039.14	845.83	-8,065.95	8,069.14	0.00	0.00	0.00
16,300.00	91.79	270.22	8,036.02	846.22	-8,165.90	8,169.09	0.00	0.00	0.00
16,400.00	91.79	270.22	8,032.89	846.62	-8,265.85	8,269.04	0.00	0.00	0.00
16,500.00	91.79	270.22	8,029.76	847.01	-8,365.80	8,368.99	0.00	0.00	0.00
16,600.00	91.79	270.22	8,026.63	847.40	-8,465.75	8,468.94	0.00	0.00	0.00
16,700.00	91.79	270.22	8,023.50	847.79	-8,565.70	8,568.89	0.00	0.00	0.00
16,800.00	91.79	270.22	8,020.37	848.18	-8,665.65	8,668.84	0.00	0.00	0.00
16,900.00	91.79	270.22	8,017.25	848.58	-8,765.60	8,768.80	0.00	0.00	0.00
17,000.00	91.79	270.22	8,014.12	848.97	-8,865.55	8,868.75	0.00	0.00	0.00
17,100.00	91.79	270.22	8,010.99	849.36	-8,965.50	8,968.70	0.00	0.00	0.00
17,200.00	91.79	270.22	8,007.86	849.75	-9,065.45	9,068.65	0.00	0.00	0.00
17,300.00	91.79	270.22	8,004.73	850.14	-9,165.40	9,168.60	0.00	0.00	0.00
17,400.00	91.79	270.22	8,001.60	850.54	-9,265.35	9,268.55	0.00	0.00	0.00
17,500.00	91.79	270.22	7,998.47	850.93	-9,365.30	9,368.50	0.00	0.00	0.00
17,600.00	91.79	270.22	7,995.35	851.32	-9,465.25	9,468.45	0.00	0.00	0.00
17,700.00	91.79	270.22	7,992.22	851.71	-9,565.20	9,568.40	0.00	0.00	0.00
17,800.00	91.79	270.22	7,989.09	852.10	-9,665.15	9,668.36	0.00	0.00	0.00
17,900.00	91.79	270.22	7,985.96	852.50	-9,765.10	9,768.31	0.00	0.00	0.00
18,000.00	91.79	270.22	7,982.83	852.89	-9,865.06	9,868.26	0.00	0.00	0.00
18,100.00	91.79	270.22	7,979.70	853.28	-9,965.01	9,968.21	0.00	0.00	0.00
18,200.00	91.79	270.22	7,976.58	853.67	-10,064.96	10,068.16	0.00	0.00	0.00
18,300.00	91.79	270.22	7,973.45	854.06	-10,164.91	10,168.11	0.00	0.00	0.00
18,400.00	91.79	270.22	7,970.32	854.45	-10,264.86	10,268.06	0.00	0.00	0.00
18,500.00	91.79	270.22	7,967.19	854.85	-10,364.81	10,368.01	0.00	0.00	0.00
18,560.35	91.79	270.22	7,965.30	855.08	-10,425.13	10,428.33	0.00	0.00	0.00
PBHL									



Planning Report



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Company:	Tap Rock Operating	TVD Reference:	Well @ 3538.00usft (H&P 466)
Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #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
KOP v2_Upslope 211l - plan misses target center by 844.84usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	816.52	216.90	417,901.96	528,310.78	32° 8' 55.982 N	104° 22' 31.529 W
LTP v2_Upslope 211l- - plan misses target center by 7971.57usft at 18484.68usft MD (7967.67 TVD, 854.79 N, -10349.49 E) - Point	0.00	0.00	0.00	853.91	-10,100.11	417,939.35	517,993.77	32° 8' 56.297 N	104° 24' 31.539 W
FTP v2_Upslope 211l- - plan misses target center by 819.94usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Point	0.00	0.00	0.00	817.50	-63.12	417,902.94	528,030.75	32° 8' 55.991 N	104° 22' 34.787 W
PBHL v3_Upslope 21l- - plan hits target center - Point	0.00	0.01	7,965.30	855.08	-10,425.13	417,940.52	517,668.75	32° 8' 56.306 N	104° 24' 35.320 W
6500' VS v3_Upslope - plan hits target center - Point	0.00	360.00	8,088.66	839.51	-6,452.97	417,924.95	521,640.90	32° 8' 56.177 N	104° 23' 49.115 W

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
37.00	37.00	Rustler			
337.00	337.00	Top Salt			
1,236.07	1,236.00	Base Salt			
1,462.50	1,462.00	Delaware Mountain Gp			
1,463.51	1,463.00	Lamar			
1,492.61	1,492.00	Bell Canyon			
1,586.02	1,585.00	Ramsey Sand			
2,418.75	2,410.00	Cherry Canyon			
3,348.00	3,330.00	Brushy Canyon			
5,043.88	5,009.00	Bone Spring Lime			
5,135.80	5,100.00	Upper Avalon			
5,472.14	5,433.00	Middle Avalon			
5,769.52	5,728.00	Lower Avalon			
5,910.08	5,868.00	1st Bone Spring Sand			
6,258.50	6,216.00	2nd Bone Spring Carb			
6,491.50	6,449.00	2nd Bone Spring Sand			
6,829.50	6,787.00	3rd Bone Spring Carb			
7,740.99	7,698.00	3rd Bone Spring Sand			
8,005.89	7,936.00	3rd BS W Sand			
8,191.79	8,056.00	Wolfcamp A X Sand			
8,388.41	8,121.00	Wolfcamp A Y Sand			



Planning Report



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Project:	Eddy County, New Mexico (NAD 83)	MD Reference:	Well @ 3538.00usft (H&P 466)
Site:	High Life Fed Com(151,153,231) Upslope(202, 211)	North Reference:	Grid
Well:	Upslope Fed Com 211H	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Design #3		

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,000.00	1,000.00	0.00	0.00	KOP, 1.00°/100' Build
1,809.05	1,806.36	55.05	14.87	Begin 8.09° Tangent
5,539.82	5,500.01	561.95	151.79	Begin 1.00°/100' Drop
6,348.87	6,306.37	617.00	166.66	Begin Vertical Hold
7,648.50	7,606.00	617.00	166.66	KOP, 11.00°/100' Build
8,478.50	8,126.74	740.45	-351.53	Begin 91.30° Lateral, 2.00°/100' Turn
9,139.33	8,117.45	818.62	-1,006.17	Hold 90.30° Inc, 270.22° Azm
14,586.24	8,088.66	839.51	-6,452.97	Begin 2.00°/100' Build
14,660.74	8,087.30	839.80	-6,527.45	Hold 91.79° Inc, 270.22° Azm
18,560.35	7,965.30	855.08	-10,425.13	PBHL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Upslope Fed Com 211H
LOCATION:	Sec 10-25S-25E-NMP
COUNTY:	Eddy County, New Mexico

*Changes approved through engineering via **Sundry 2854042** on 6/5/2025. Any previous COAs not addressed within the updated COAs still apply.*

Create COAs

H₂S Not Reported	Cave / Karst Critical	Waste Prevention Rule Waste Minimization Plan
Potash None	R-111-Q Design 	
Wellhead Multibowl ☒ Flex Hose ☒ Break Testing	Casing 3-String Well ☐ Liner ☐ Fluid Filled ☐ Casing Clearance Cementing ☐ DV Tool ☐ Bradenhead ☐ Echometer ☐ Offline Cement ☐ Open Annulus ☐ Pilot Hole	
Special Requirements ☐ Capitan Reef ☐ Water Disposal ☒ COM ☐ Unit		

Geologist was consulted on adjustments to set depths and deemed the changes adequate.

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet 43 CFR 3176 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

1. The 11-3/4 inch surface casing shall be set at approximately **420** feet (a minimum of **70'** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.

- a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic-type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or **500 pounds compressive strength**, whichever is greater (including lead cement.)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **8-5/8** inch intermediate casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.
3. The minimum required fill of cement behind the **5-1/2** inch production casing is **cement to surface**. If cement does not circulate, see B.1.a, c-d above.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry** due to the presence of cave/karst, Capitan Reef, or potash features.

C. PRESSURE CONTROL

1. Operator has proposed a multi-bowl wellhead assembly. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **5000 (5M) psi**.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one-inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 - e. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.
2. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).

3. Break testing has been approved for this well ONLY on those intervals utilizing a 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)** If in the event break testing is not utilized, then a full BOPE test would be conducted.
 - a. Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation. **BOPE Break Testing is NOT permitted to drilling the production hole section.**
 - b. While in transfer between wells, BOPE shall be secured by the hydraulic carrier or cradle.
 - c. A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
 - d. As a minimum, a full BOPE test shall be performed at 21-day intervals.
 - e. In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per **43 CFR 3172**. Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.

D. SPECIAL REQUIREMENT(S)

Communitization Agreement:

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

The BLM is to be notified in advance for a representative to witness:

- a. Spudding well (minimum of 24 hours)
- b. Setting and/or Cementing of all casing strings (minimum of 4 hours)
- c. BOPE tests (minimum of 4 hours)

Contact Eddy County Petroleum Engineering Inspection Staff:

Email or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220;
[BLM NM CFO DrillingNotifications@BLM.GOV](mailto:BLM_NM_CFO_DrillingNotifications@BLM.GOV); (575) 361-2822

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - i. Notify the BLM when moving in and removing the Spudder Rig.
 - ii. Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - iii. BOP/BOPE test to be conducted per **43 CFR 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. For intervals in which cement to surface is required, cement to surface should be verified with a visual check and density or pH check to differentiate cement from spacer and drilling mud. The results should be documented in the driller's log and daily reports.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or

- if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends of both lead and tail cement, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
 3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
 8. Whenever a casing string is cemented in the R-111-Q potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible

- hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve

open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- iv. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- v. The results of the test shall be reported to the appropriate BLM office.
- vi. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- vii. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- viii. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR 3172**.

C. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the Wolfcamp formation, and shall be used until production casing is run and cemented.

D. WASTE MATERIAL AND FLUIDS

All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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

CONDITIONS

Action 493232

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 1700 Lincoln St Denver, CO 80203	OGRID: 372043
	Action Number: 493232
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
matthew.gomez	Any previous COA's not addressed within the updated COA's still apply.	8/7/2025
matthew.gomez	Surface casing shall be set above the salt, below usable fresh water, and cemented to the surface.	8/7/2025