Form 3160-3
(June 2015)

FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

1a. Type of work: ☐ DRILL ☐ REENTER

1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other

1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone

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

8. Lease Name and Well No.

2. Name of Operator

9. API Well No. 30-015-54532

3a. Address	3b. Phone No. *(include area code)*	10. Field and Pool, or Exploratory

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface

At proposed prod. zone

11. Sec., T. R. M. or Blk. and Survey or Area

14. Distance in miles and direction from nearest town or post office*	12. County or Parish	13. State

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No of acres in lease	17. Spacing Unit dedicated to this well

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth	20. BLM/BIA Bond No. in file

21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, and the Hydraulic Fracturing rule per 43 CFR 3162.3-3 (as applicable)

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be requested by the BLM.

25. Signature	Name *(Printed/Typed)*	Date

Title

Approved by *(Signature)*	Name *(Printed/Typed)*	Date

Title	Office

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

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.

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Approval Date: 11/21/2023

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**

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1]API Number	[2]Pool Code	[3]Pool Name
30-015- 54532	98220	Purple Sage; Wolfcamp (Gas)

[4]Property Code	[5]Property Name	[6]Well Number
335064	HIGH LIFE FED COM	231H

[7]OGRID No.	[8]Operator Name	[9]Elevation
372043	TAP ROCK OPERATING, LLC.	3512'

[10]Surface Location

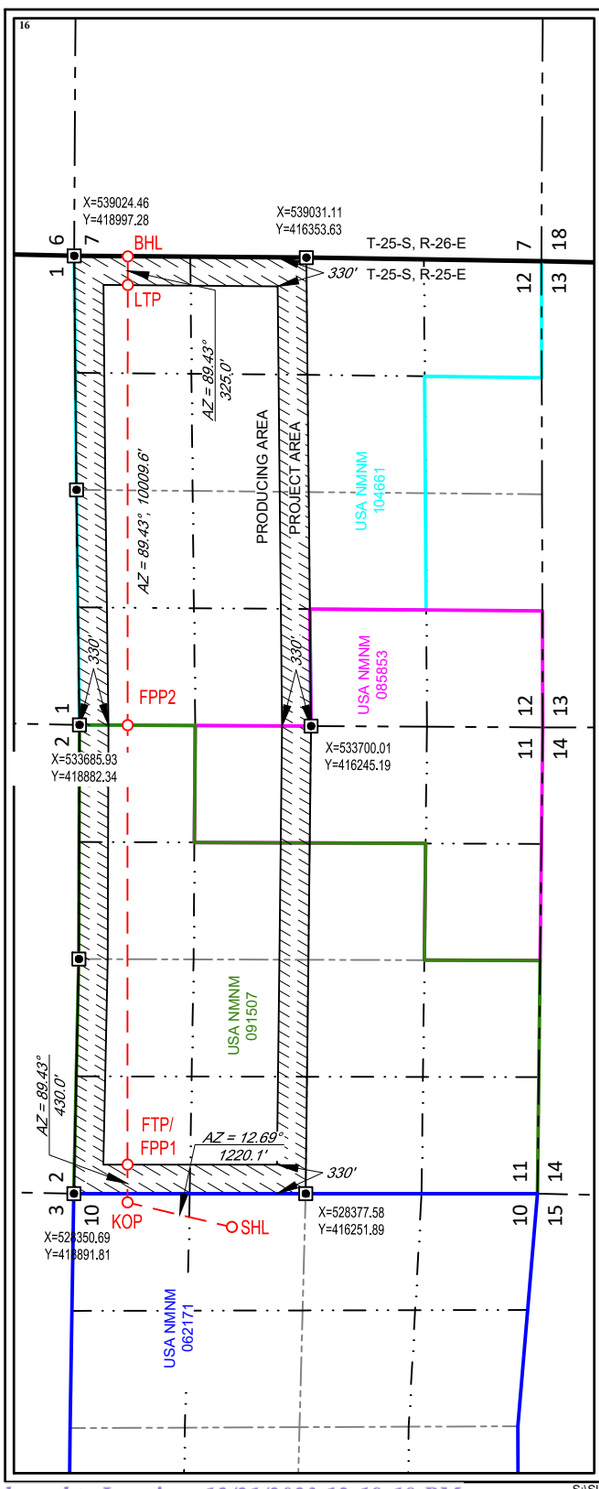
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	10	25-S	25-E	–	1804'	NORTH	380'	EAST	EDDY

[11]Bottom 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
A	12	25-S	25-E	–	610'	NORTH	5'	EAST	EDDY

[12]Dedicated Acres	[13]Joint or Infill	[14]Consolidation Code	[15]Order No.
640			

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.



NEW MEXICO EAST
NAD 1983

SURFACE LOCATION (SHL)
1804' FNL - SEC. 10
380' FEL - SEC. 10
X=527989 Y=417089
LAT.: N 32.1466497
LONG.: W 104.3764640

KICK OFF POINT (KOP)
613' FNL - SEC. 10
100' FEL - SEC. 10
X=528257 Y=418280
LAT.: N 32.1499221
LONG.: W 104.3755993

FIRST TAKE POINT (FTP)(FPP1)
604' FNL - SEC. 11
330' FWL - SEC. 11
X=528687 Y=418284
LAT.: N 32.1499344
LONG.: W 104.3742099

FED PERF POINT (FPP2)
548' FNL - SEC. 11
0' FEL - SEC. 11
X=533689 Y=418334
LAT.: N 32.1500759
LONG.: W 104.3580477

LAST TAKE POINT (LTP)
607' FNL - SEC. 12
330' FEL - SEC. 12
X=538696 Y=418384
LAT.: N 32.1502154
LONG.: W 104.3418686

BOTTOM HOLE LOCATION (BHL)
610' FNL - SEC. 12
5' FEL - SEC. 12
X=539021 Y=418387
LAT.: N 32.1502244
LONG.: W 104.3408184

[17]OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and 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 such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Cory Walk — 06-26-23
Signature — Date

Cory Walk
Printed Name

cory@permitswest.com
E-mail Address

[18]SURVEYOR 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 to the best of my belief.

03/18/2023
Date of Survey
Signature and Seal of Professional Surveyor

RAMON DOMINGUEZ
NEW MEXICO
24508
PROFESSIONAL SURVEYOR

7/6/2023 10:10:55 AM
Certificate Number

S:\SURVEY\TAPROCK\HIGH_LIFE_UNIT\FINAL_PRODUCTS\LO_HIGH_LIFE_FED_COM_231H_REV1.DWG 7/6/2023 10:10:55 AM craig.rentz

State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

NATURAL GAS MANAGEMENT PLAN

This Natural Gas Management Plan must be submitted with each Application for Permit to Drill (APD) for a new or recompleted well.

Section 1 – Plan Description
Effective May 25, 2021

I. Operator: _____Tap Rock Operating LLC_____ **OGRID:** _____372043_____ **Date:** _11/6/2023

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water
High Life Fed Com 231H		Sec 10, T25S R 25E	1804 FNL, 380 FEL	1040	9750	5750

IV. Central Delivery Point Name: ___High Life Fed Com CDP_____ [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
High Life Fed Com 231H		4/1/23	5/1/22	6/1/23	6/30/23	7/5/23

VI. Separation Equipment: ☒ Attach a complete description of how Operator will size separation equipment to optimize gas capture.

VII. Operational Practices: ☒ Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC.

VIII. Best Management Practices: ☒ Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

Section 2 – Enhanced Plan

EFFECTIVE APRIL 1, 2022

Beginning April 1, 2022, an operator that is not in compliance with its statewide natural gas capture requirement for the applicable reporting area must complete this section.

☒ Operator certifies that it is not required to complete this section because Operator is in compliance with its statewide natural gas capture requirement for the applicable reporting area.

IX. Anticipated Natural Gas Production:

Well	API	Anticipated Average Natural Gas Rate MCF/D	Anticipated Volume of Natural Gas for the First Year MCF

X. Natural Gas Gathering System (NGGS):

Operator	System	ULSTR of Tie-in	Anticipated Gathering Start Date	Available Maximum Daily Capacity of System Segment Tie-in

XI. Map. ☐ Attach an accurate and legible map depicting the location of the well(s), the anticipated pipeline route(s) connecting the production operations to the existing or planned interconnect of the natural gas gathering system(s), and the maximum daily capacity of the segment or portion of the natural gas gathering system(s) to which the well(s) will be connected.

XII. Line Capacity. The natural gas gathering system ☐ will ☐ will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

XIII. Line Pressure. Operator ☐ does ☐ does not anticipate that its existing well(s) connected to the same segment, or portion, of the natural gas gathering system(s) described above will continue to meet anticipated increases in line pressure caused by the new well(s).

☐ Attach Operator's plan to manage production in response to the increased line pressure.

XIV. Confidentiality: ☐ Operator asserts confidentiality pursuant to Section 71-2-8 NMSA 1978 for the information provided in Section 2 as provided in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and attaches a full description of the specific information for which confidentiality is asserted and the basis for such assertion.

Section 3 - Certifications

Effective May 25, 2021

Operator certifies that, after reasonable inquiry and based on the available information at the time of submittal:

☐ Operator will be able to connect the well(s) to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system; or

☐ Operator will not be able to connect to a natural gas gathering system in the general area with sufficient capacity to transport one hundred percent of the anticipated volume of natural gas produced from the well(s) commencing on the date of first production, taking into account the current and anticipated volumes of produced natural gas from other wells connected to the pipeline gathering system. ***If Operator checks this box, Operator will select one of the following:***

Well Shut-In. ☐ Operator will shut-in and not produce the well until it submits the certification required by Paragraph (4) of Subsection D of 19.15.27.9 NMAC; or

Venting and Flaring Plan. ☐ Operator has attached a venting and flaring plan that evaluates and selects one or more of the potential alternative beneficial uses for the natural gas until a natural gas gathering system is available, including:

- **(a)** power generation on lease;
- **(b)** power generation for grid;
- **(c)** compression on lease;
- **(d)** liquids removal on lease;
- **(e)** reinjection for underground storage;
- **(f)** reinjection for temporary storage;
- **(g)** reinjection for enhanced oil recovery;
- **(h)** fuel cell production; and
- **(i)** other alternative beneficial uses approved by the division.

Section 4 - Notices

1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(a) Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become unavailable or will not have capacity to transport one hundred percent of the production from the well(s), no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised venting and flaring plan containing the information specified in Paragraph (5) of Subsection D of 19.15.27.9 NMAC; or

(b) Operator becomes aware that it has, cumulatively for the year, become out of compliance with its baseline natural gas capture rate or natural gas capture requirement, no later than 20 days after becoming aware of such information, Operator shall submit for OCD's approval a new or revised Natural Gas Management Plan for each well it plans to spud during the next 90 days containing the information specified in Paragraph (2) of Subsection D of 19.15.27.9 NMAC, and shall file an update for each Natural Gas Management Plan until Operator is back in compliance with its baseline natural gas capture rate or natural gas capture requirement.

2. OCD may deny or conditionally approve an APD if Operator does not make a certification, fails to submit an adequate venting and flaring plan which includes alternative beneficial uses for the anticipated volume of natural gas produced, or if OCD determines that Operator will not have adequate natural gas takeaway capacity at the time a well will be spud.

I certify that, after reasonable inquiry, the statements in and attached to this Natural Gas Management Plan are true and correct to the best of my knowledge and acknowledge that a false statement may be subject to civil and criminal penalties under the Oil and Gas Act.

Signature: 
Printed Name: Jeff Trlica
Title: Regulatory Specialist
E-mail Address: jtrlica@taprk.com
Date: 11/7/2023
Phone: 720-772-5910

OIL CONSERVATION DIVISION **(Only applicable when submitted as a standalone form)**
Approved By:
Title:
Approval Date:
Conditions of Approval:

VI. **Separation Equipment:** Attach a complete description of how Operator will size separation equipment to optimize gas capture:

Each surface facility design includes the following process equipment: 3-phase separators (1 separator per well), a sales gas scrubber, one or two 3-phase heater treaters, a vapor recovery tower (VRT), a VRU compressor, multiple water and oil tanks, as well as flare knockouts (HP & LP), and flares (HP & LP). All process vessels will be sized to separate oil, water, gas based upon typical/historical & predicted well performance. Each process vessel will be fitted with an appropriately sized PSV as per ASME code requirements to mitigate vessel rupture and loss of containment. Additionally, the process vessels will be fitted with pressure transmitters tied to the facility control system which will allow operations to monitor pressures and when necessary, shut-in the facility to avoid vessel over-pressure and the potential vent of natural gas. Natural gas will preferentially be sold to pipeline, and only during upset/emergency conditions will gas be directed to the HP flare system. Flash gas from both the 3-phase heater treater and the VRT will be recompressed using a VRU compressor and this gas will also preferentially be directed to the gas sales pipeline. Oil tanks & water tanks will be fitted with 16 oz thief hatches as well as PVRVs to protect the tanks from rupture/collapse. Additionally, the tank vapor outlets and tank vapor capture system will be sized to keep tank pressures below 12 oz. The tank vapor capture system will include a tank vapor blower & knockout as well as a low-pressure flare and knockout. Tank vapors will preferentially be directed to the VRU and the sales gas pipeline. Only during process upsets/emergency conditions will tank vapors be directed to the LP flare system.

VII. **Operational Practices:** Attach a complete description of the actions Operator will take to comply with the requirements of Subsection A through F of 19.15.27.8 NMAC. ← See attached reg for requirements.

- During drilling operations- Gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10’ or taller flare will be located at least 100’ from the SHL.

- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10’ or taller flare will be located at least 100’ from the SHL.

- During production operations, all process vessels (separators, heater treaters, VRTs, Tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergency, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified exceptions per the regulation 19.15.27.8 Subsection D.

- To comply with state performance standards, separation and storage equipment will be designed to handle the maximum anticipated throughput and pressure to minimize waste and reduce the likelihood of venting gas to atmosphere. Additionally, each storage atmospheric tank (Oil & Water) will be fitted with a level transmitter to facilitate gauging of the tank without opening of the thief hatch. Any gas collected through the tank vent system is expected to be recompressed and routed to sales. However, in the event of an emergency, the tank vapor capture system will be designed to combust the gas using a flare stack fitted with a continuous or automatic ignitor. The flare stack will be properly anchored and will be located a minimum of 100 feet from the well and storage tanks. Operators will conduct weekly AVO inspections. These AVO inspection records will be stored for the required 5-year period and will be made available upon Division request.

VIII. **Best Management Practices:** Attach a complete description of Operator's best management practices to minimize venting during active and planned maintenance.

- When performing routine or preventive maintenance on a vessel or tank, initially all inlet valves are closed, and the vessel or tank is allowed to depressurize through the normal outlet connections to gas sales and/or liquid tanks. Once the vessel or tank is depressurized to lowest acceptable sales outlet pressure, usually around 20 psig, a temporary low-pressure flowline is connected from the vessel or tank to the Vapor Recovery Unit (VRU) for further pressure reduction. Once depressurized to less than 1-2 psig, the remaining natural gas in the vessel or tank is vented to atmosphere through a controlled pressure relief valve. Once the vessel or tank is depressurized to atmospheric pressure, the vessel or tank can be safely opened, and maintenance performed.

Drilling Operations Plan
High Life Fed Com #231H
Tap Rock Operating, LLC
SHL 1,804' FNL & 380' FEL, Sec. 10
BHL 610' FNL & 5' FEL, Sec. 12
T. 25S., R. 25E Eddy County, NM

Elevation above Sea Level: 3512'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	37	37	Anhydrite	None
Top Salt	337	337	Salt	Salt
Base Salt	1,236	1,236	Salt	Salt
DMG	1,462	1,462	Sandstone	None
Lamar	1,463	1,463	Sandstone	Hydrocarbons
Bell Canyon	1,492	1,492	Sandstone	Hydrocarbons
Ramsey Sand	1,585	1,586	Sandstone	Hydrocarbons
Cherry Canyon	2,410	2,419	Limestone	Hydrocarbons
Brushy Canyon	3,330	3,350	Sandstone	Hydrocarbons
Bone Spring Lime	5,020	5,061	Carbonate	Hydrocarbons
Upper Avalon	5,080	5,122	Carbonate	Hydrocarbons
Middle Avalon	5,385	5,430	Carbonate	Hydrocarbons
1st BS Sand	5,875	5,926	Sandstone	Hydrocarbons
2nd BS Carb	6,085	6,139	Carbonate	Hydrocarbons
2nd BS Sand	6,455	6,513	Sandstone	Hydrocarbons
3rd BS Sand	7,720	7,794	Sandstone	Hydrocarbons
Wolfcamp A	8,065	8,143	Sandstone	Hydrocarbons
Wolfcam B	8,310	8,391	Sandstone	Hydrocarbons
Wolfcamp C	8,800	8,984	Sandstone	Hydrocarbons
KOP	8,380	8,462	Carbonate	Hydrocarbons
TD	9,134	19,513	Carbonate	Hydrocarbons

2. Notable Zones

Wolfcamp C is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):
At 19,513', a 5M pressure control system is required. The BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.

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BOP Test procedure will be as follows:
After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 250 psi low, 2500 psi high.

Variance Requests:
Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate and Production Strings. Tap Rock requests a variance to drill this well using a co-flex line between the BOP and choke manifold. Certification for proposed co-flex hose is attached. The hose is not required by the manufacturer to be anchored. In the event the specific hose is not available, one of equal or higher rating will be used. Tap Rock requests a variance to have the option of batch drilling this well with other wells on the same pad. If this well is batch drilled, after cementing a casing string, a 5M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. Tap Rock Operating requests to only test BOP connection breaks after rig walks per the procedures and stipulations set forth in the "BOP Shell Test Procedure" document emailed to the BLM on 8/11/22.

4. Casing & Cement

All Casing will be new.
Casing Design:

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	250	10 3/4	API	No	0	250	0	250	J-55	45.5	BTC	1.13	1.15	1.6
Intermediate	9 7/8	250	8362	7 5/8	API	No	0	8362	0	8280	P-110	29.7	BTC	1.13	1.15	1.6
Production	6 3/4	8362	19513	5 1/2	NON API	No	0	8162	0	8080	P-110	20	TXP	1.13	1.15	1.6
				5 1/2	NON API	No	8162	19513	8080	9134	P-110	20	W441	1.13	1.15	1.6

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	209	1.33	278	14.8	100%	C	5% NCl + LCM
Intermediate	Lead	0	600	4.29	2573	10.5	65%	C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
	Tail	7362	167	1.67	279	13.2	30%	C	5% NaCl + LCM
Production	Tail	8162	862	1.32	1138	14.5	20%	H	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Top	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	250	FW Spud Mud	8.40	27 - 30	NC
Intermediate	250	8362	DBE	9.20	35 - 42	~60
Production	8362	19513	OBM	11.80	55-65	< 16

Electronic Pason mud monitor system complying with Onshore Order 1 will be used. All necessary mud products (i.e., barite, pac) for weight addition and fluid loss control will always be on site. Mud program is subject to change due to hole conditions. A closed loop system will be used.

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6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time.
- GR will be collected while drilling through the MWD tools from KOP to TD.
- A 2-person mud logging program will be used from KOP to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.

7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is ≈ 5,604 psi. Expected bottom hole temperature is ≈160˚ F.

Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp C formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package on all wells and an "H2S Drilling Operations Plan" is attached. Adequate flare lines will be installed off the mud/gas separator where gas may be safely flared. All personnel will be familiar with all aspects of safe operation of equipment being used.

8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 15 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.

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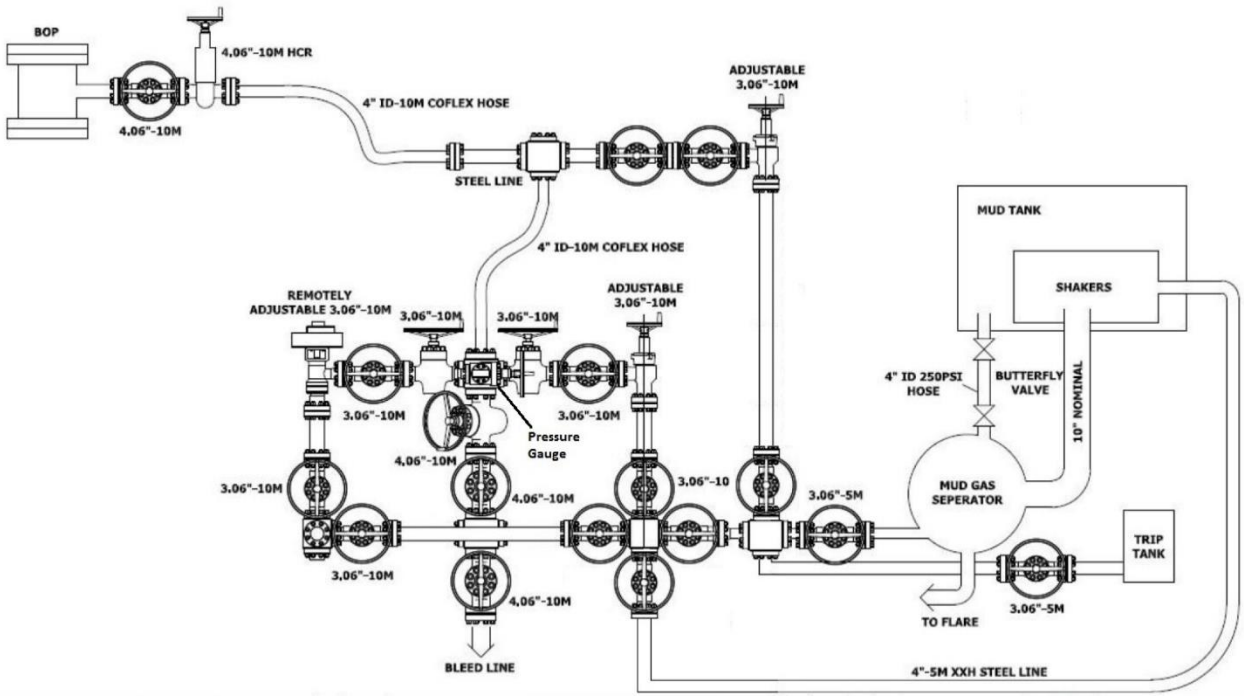
10M Choke Layout



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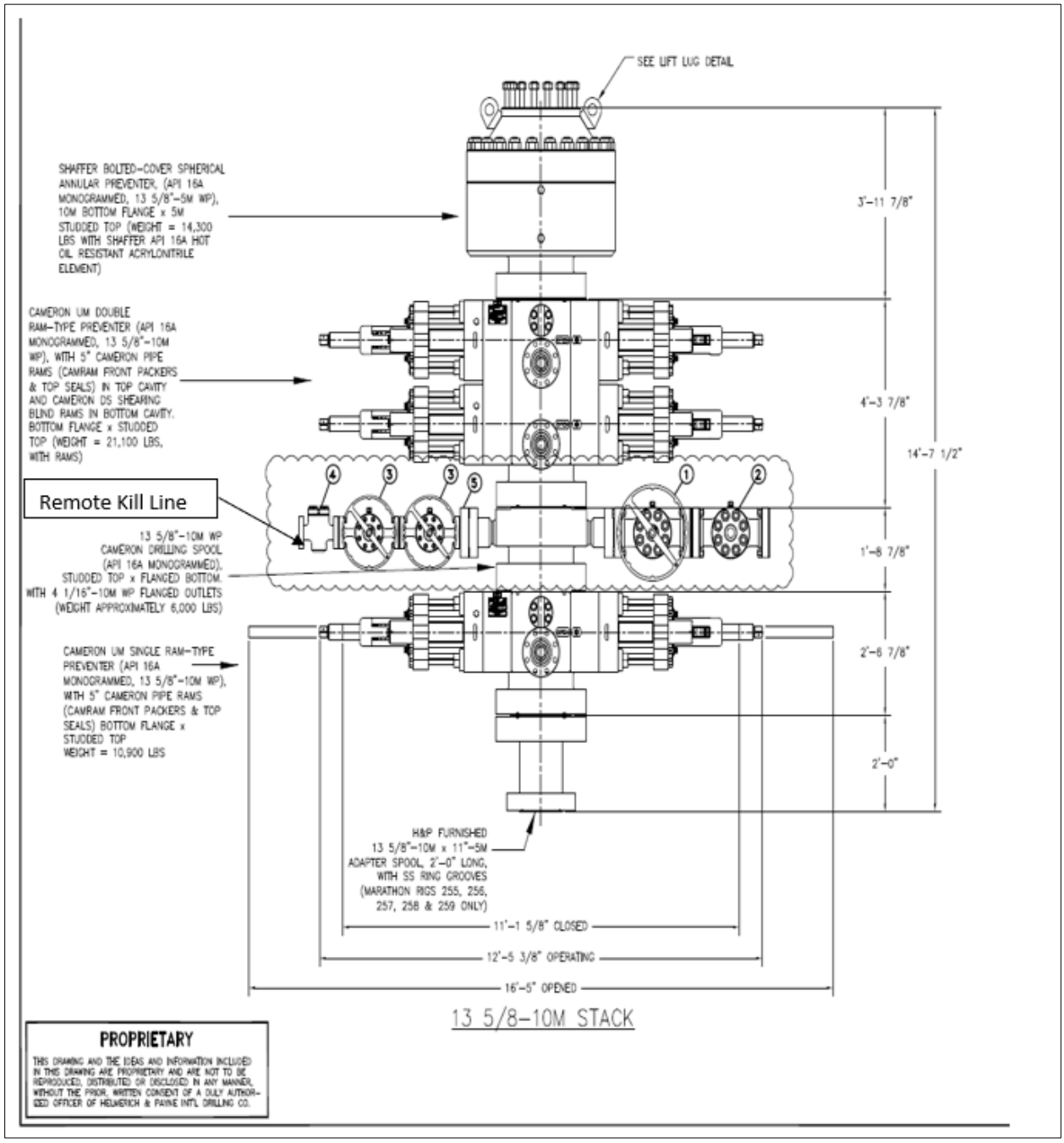
10,000 psi BOP Stack



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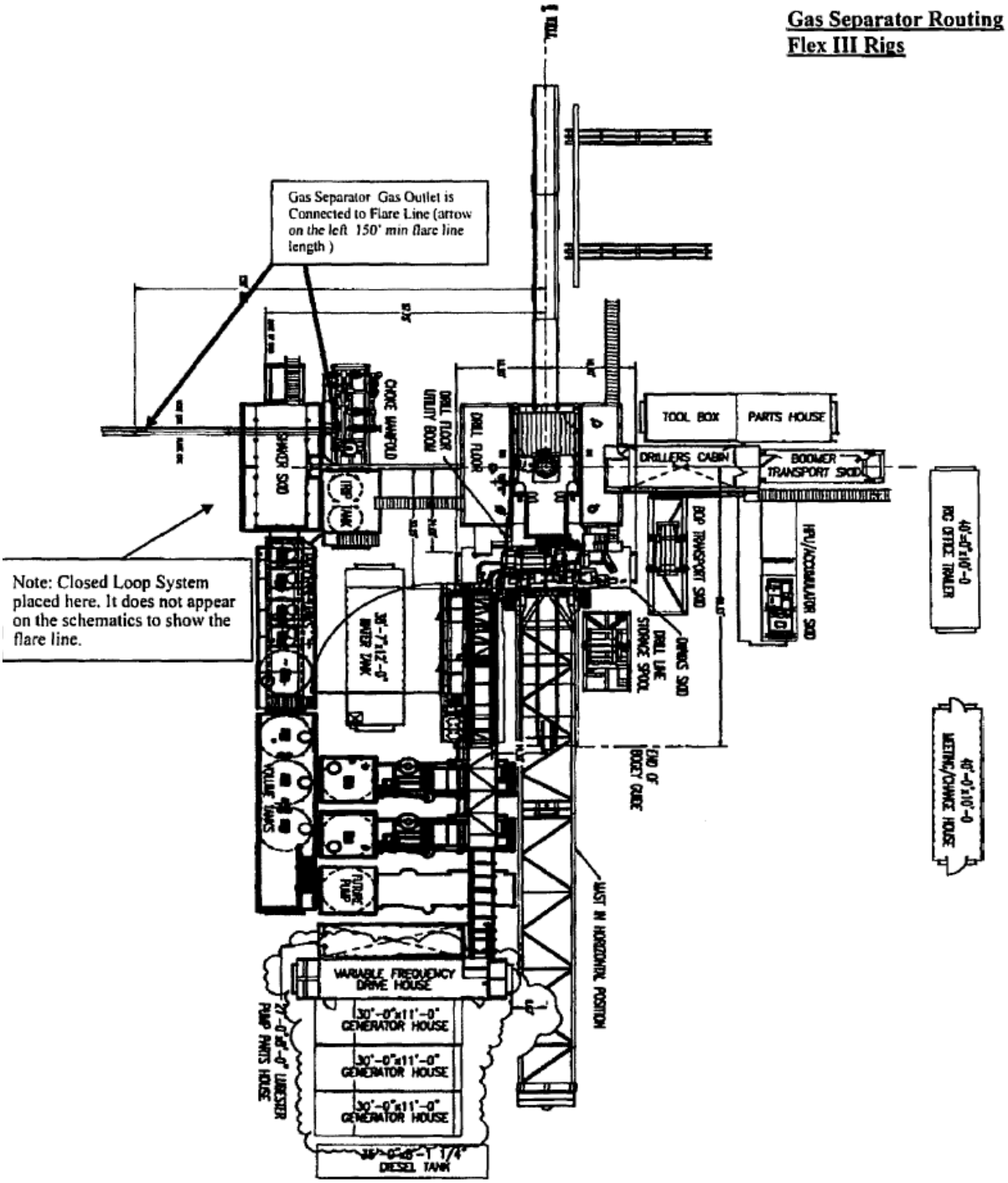
Gas Separator Routing
Flex III Rigs



Drilling Operations Plan
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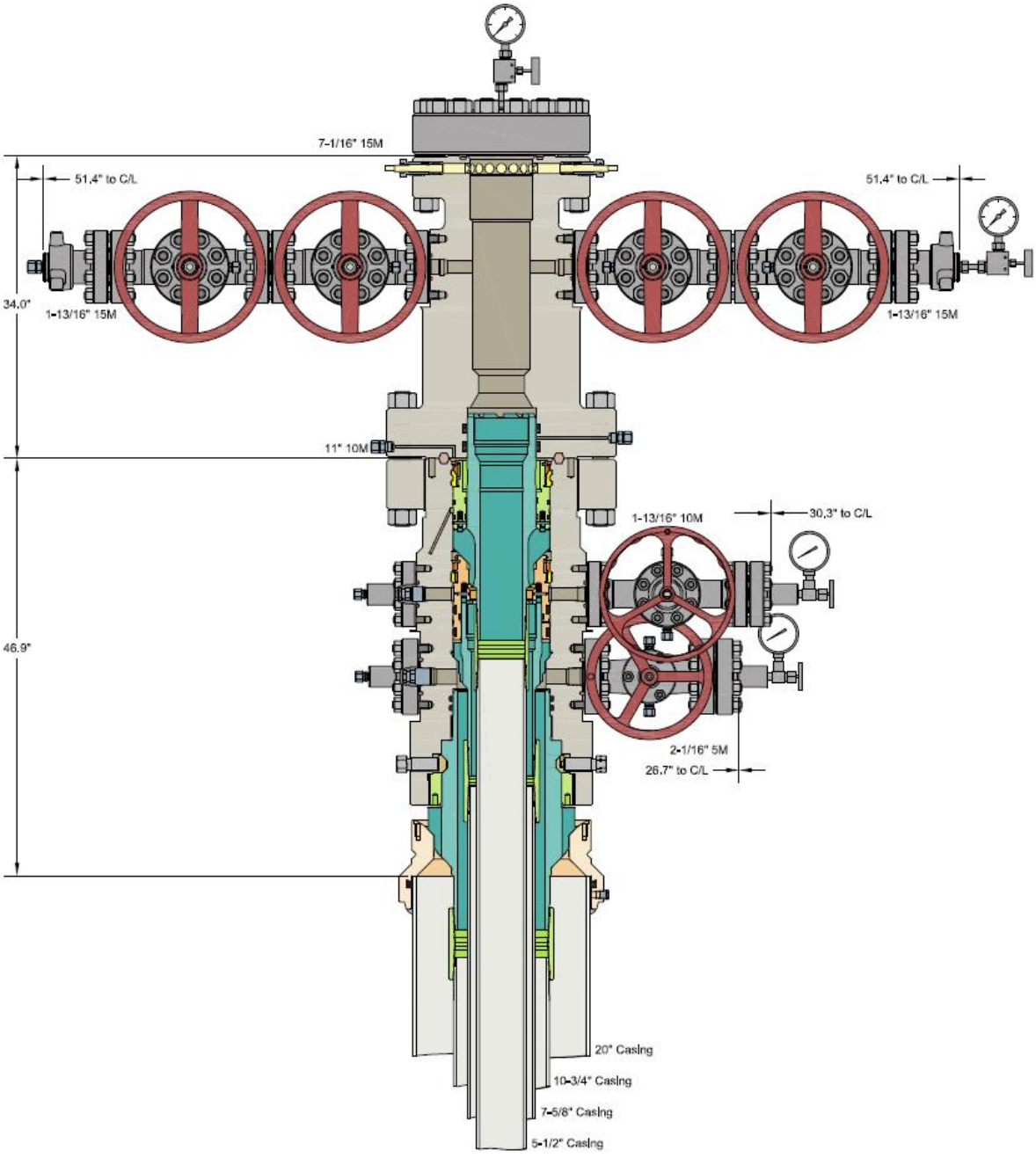
Tap Rock Operating, LLC
SHL 1,804’ FNL & 380’ FEL, Sec. 10
BHL 610’ FNL & 5’ FEL, Sec. 12
T. 25S., R. 25E Eddy County, NM

Multi-bowl Wellhead Design



Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME)
Sec-10-25S-25E(High Life N)
High Life Fed Com #231H

Wellbore #1

Plan: Plan 1

Total Directional
"Driven by TOTAL performance"

Standard Survey Report

10 May, 2023

Total Report Version 1.10

COMPASS 5000.16 Build 97

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Project Eddy 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 Sec-10-25S-25E(High Life N)

Site Position:		**Northing:**	417,091.00 usft	**Latitude:**	32.1466546
From:	Map	**Easting:**	528,199.00 usft	**Longitude:**	-104.3757849
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "		

Well High Life Fed Com #231H

Well Position	**+N/-S**	0.00 usft	**Northing:**	417,089.00 usft	**Latitude:**	32.1466489
	+E/-W	0.00 usft	**Easting:**	527,989.00 usft	**Longitude:**	-104.3764634
Position Uncertainty		0.50 usft	**Wellhead Elevation:**	usft	**Ground Level:**	3,512.00 usft
Grid Convergence:		-0.02 °				

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	HDGM2023	5/8/2023	7.00	59.60	47,347.80000000

Design Plan 1

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	89.43

Survey Tool Program **Date** 5/10/2023

From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.00	19,513.46	Plan 1 (Wellbore #1)	MWD+HRGM	OWSG MWD + HRGM

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
37.00	0.00	0.00	37.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
Rustler													
100.00	0.00	0.00	100.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00

Survey Report

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Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
337.00	0.00	0.00	337.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
Top Salt													
400.00	0.00	0.00	400.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	417,089.00	527,989.00	32.1466489	-104.3764634	0.00	0.00	0.00	0.00
Begin Nudge													
1,200.00	1.00	14.40	1,199.99	0.85	0.22	417,089.85	527,989.22	32.1466512	-104.3764627	0.23	1.00	1.00	0.00
1,236.01	1.36	14.40	1,236.00	1.56	0.40	417,090.56	527,989.40	32.1466532	-104.3764621	0.42	1.00	1.00	0.00
Base Salt													
1,300.00	2.00	14.40	1,299.96	3.38	0.87	417,092.38	527,989.87	32.1466582	-104.3764606	0.90	1.00	1.00	0.00
1,400.00	3.00	14.40	1,399.86	7.61	1.95	417,096.61	527,990.95	32.1466698	-104.3764571	2.03	1.00	1.00	0.00
1,462.24	3.62	14.40	1,462.00	11.09	2.85	417,100.09	527,991.85	32.1466794	-104.3764543	2.96	1.00	1.00	0.00
Delaware													
1,463.24	3.63	14.40	1,463.00	11.15	2.86	417,100.15	527,991.86	32.1466795	-104.3764542	2.97	1.00	1.00	0.00
Lamar													
1,492.31	3.92	14.40	1,492.00	13.00	3.34	417,102.00	527,992.34	32.1466846	-104.3764527	3.47	1.00	1.00	0.00
Bell													
1,500.00	4.00	14.40	1,499.68	13.52	3.47	417,102.52	527,992.47	32.1466861	-104.3764522	3.60	1.00	1.00	0.00
1,585.58	4.86	14.40	1,585.00	19.92	5.11	417,108.92	527,994.11	32.1467037	-104.3764469	5.31	1.00	1.00	0.00
Ramsey													
1,600.00	5.00	14.40	1,599.37	21.12	5.42	417,110.12	527,994.42	32.1467070	-104.3764459	5.63	1.00	1.00	0.00
1,700.00	6.00	14.40	1,698.90	30.40	7.80	417,119.40	527,996.80	32.1467325	-104.3764383	8.11	1.00	1.00	0.00
1,800.00	7.00	14.40	1,798.26	41.37	10.62	417,130.37	527,999.62	32.1467626	-104.3764292	11.03	1.00	1.00	0.00
1,900.00	8.00	14.40	1,897.40	54.01	13.87	417,143.01	528,002.87	32.1467974	-104.3764187	14.40	1.00	1.00	0.00
1,993.09	8.93	14.40	1,989.48	67.28	17.27	417,156.28	528,006.27	32.1468339	-104.3764077	17.94	1.00	1.00	0.00
EOB / Hold													
2,000.00	8.93	14.40	1,996.30	68.32	17.54	417,157.32	528,006.54	32.1468367	-104.3764069	18.22	0.00	0.00	0.00
2,100.00	8.93	14.40	2,095.09	83.36	21.40	417,172.36	528,010.40	32.1468781	-104.3763944	22.23	0.00	0.00	0.00
2,200.00	8.93	14.40	2,193.88	98.39	25.26	417,187.39	528,014.26	32.1469194	-104.3763819	26.24	0.00	0.00	0.00
2,300.00	8.93	14.40	2,292.67	113.43	29.12	417,202.43	528,018.12	32.1469607	-104.3763695	30.25	0.00	0.00	0.00
2,400.00	8.93	14.40	2,391.45	128.47	32.98	417,217.47	528,021.98	32.1470021	-104.3763570	34.26	0.00	0.00	0.00
2,418.77	8.93	14.40	2,410.00	131.29	33.71	417,220.29	528,022.71	32.1470098	-104.3763547	35.01	0.00	0.00	0.00
Cherry													
2,500.00	8.93	14.40	2,490.24	143.50	36.84	417,232.50	528,025.84	32.1470434	-104.3763446	38.27	0.00	0.00	0.00

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
2,600.00	8.93	14.40	2,589.03	158.54	40.70	417,247.54	528,029.70	32.1470848	-104.3763321	42.28	0.00	0.00	0.00
2,700.00	8.93	14.40	2,687.82	173.58	44.56	417,262.58	528,033.56	32.1471261	-104.3763197	46.29	0.00	0.00	0.00
2,800.00	8.93	14.40	2,786.61	188.61	48.42	417,277.61	528,037.42	32.1471674	-104.3763072	50.30	0.00	0.00	0.00
2,900.00	8.93	14.40	2,885.39	203.65	52.28	417,292.65	528,041.28	32.1472088	-104.3762948	54.31	0.00	0.00	0.00
3,000.00	8.93	14.40	2,984.18	218.69	56.14	417,307.69	528,045.14	32.1472501	-104.3762823	58.32	0.00	0.00	0.00
3,100.00	8.93	14.40	3,082.97	233.72	60.00	417,322.72	528,049.00	32.1472915	-104.3762699	62.33	0.00	0.00	0.00
3,200.00	8.93	14.40	3,181.76	248.76	63.86	417,337.76	528,052.86	32.1473328	-104.3762574	66.34	0.00	0.00	0.00
3,300.00	8.93	14.40	3,280.54	263.80	67.73	417,352.80	528,056.73	32.1473741	-104.3762450	70.35	0.00	0.00	0.00
3,350.06	8.93	14.40	3,330.00	271.33	69.66	417,360.33	528,058.66	32.1473948	-104.3762387	72.35	0.00	0.00	0.00
Brushy													
3,400.00	8.93	14.40	3,379.33	278.84	71.59	417,367.84	528,060.59	32.1474155	-104.3762325	74.36	0.00	0.00	0.00
3,500.00	8.93	14.40	3,478.12	293.87	75.45	417,382.87	528,064.45	32.1474568	-104.3762200	78.37	0.00	0.00	0.00
3,600.00	8.93	14.40	3,576.91	308.91	79.31	417,397.91	528,068.31	32.1474982	-104.3762076	82.38	0.00	0.00	0.00
3,700.00	8.93	14.40	3,675.69	323.95	83.17	417,412.95	528,072.17	32.1475395	-104.3761951	86.39	0.00	0.00	0.00
3,800.00	8.93	14.40	3,774.48	338.98	87.03	417,427.98	528,076.03	32.1475808	-104.3761827	90.40	0.00	0.00	0.00
3,900.00	8.93	14.40	3,873.27	354.02	90.89	417,443.02	528,079.89	32.1476222	-104.3761702	94.40	0.00	0.00	0.00
4,000.00	8.93	14.40	3,972.06	369.06	94.75	417,458.06	528,083.75	32.1476635	-104.3761578	98.41	0.00	0.00	0.00
4,100.00	8.93	14.40	4,070.84	384.09	98.61	417,473.09	528,087.61	32.1477049	-104.3761453	102.42	0.00	0.00	0.00
4,200.00	8.93	14.40	4,169.63	399.13	102.47	417,488.13	528,091.47	32.1477462	-104.3761329	106.43	0.00	0.00	0.00
4,300.00	8.93	14.40	4,268.42	414.17	106.33	417,503.17	528,095.33	32.1477875	-104.3761204	110.44	0.00	0.00	0.00
4,400.00	8.93	14.40	4,367.21	429.20	110.19	417,518.20	528,099.19	32.1478289	-104.3761080	114.45	0.00	0.00	0.00
4,500.00	8.93	14.40	4,465.99	444.24	114.05	417,533.24	528,103.05	32.1478702	-104.3760955	118.46	0.00	0.00	0.00
4,600.00	8.93	14.40	4,564.78	459.28	117.91	417,548.28	528,106.91	32.1479115	-104.3760830	122.47	0.00	0.00	0.00
4,700.00	8.93	14.40	4,663.57	474.31	121.77	417,563.31	528,110.77	32.1479529	-104.3760706	126.48	0.00	0.00	0.00
4,800.00	8.93	14.40	4,762.36	489.35	125.63	417,578.35	528,114.63	32.1479942	-104.3760581	130.49	0.00	0.00	0.00
4,900.00	8.93	14.40	4,861.15	504.39	129.49	417,593.39	528,118.49	32.1480356	-104.3760457	134.50	0.00	0.00	0.00
5,000.00	8.93	14.40	4,959.93	519.42	133.35	417,608.42	528,122.35	32.1480769	-104.3760332	138.51	0.00	0.00	0.00
5,060.80	8.93	14.40	5,020.00	528.57	135.70	417,617.57	528,124.70	32.1481020	-104.3760257	140.95	0.00	0.00	0.00
Bone Spring													
5,100.00	8.93	14.40	5,058.72	534.46	137.21	417,623.46	528,126.21	32.1481182	-104.3760208	142.52	0.00	0.00	0.00
5,121.54	8.93	14.40	5,080.00	537.70	138.04	417,626.70	528,127.04	32.1481271	-104.3760181	143.39	0.00	0.00	0.00
Avalon													
5,200.00	8.93	14.40	5,157.51	549.50	141.07	417,638.50	528,130.07	32.1481596	-104.3760083	146.53	0.00	0.00	0.00
5,300.00	8.93	14.40	5,256.30	564.53	144.93	417,653.53	528,133.93	32.1482009	-104.3759959	150.54	0.00	0.00	0.00
5,400.00	8.93	14.40	5,355.08	579.57	148.79	417,668.57	528,137.79	32.1482423	-104.3759834	154.55	0.00	0.00	0.00
5,430.28	8.93	14.40	5,385.00	584.12	149.96	417,673.12	528,138.96	32.1482548	-104.3759796	155.77	0.00	0.00	0.00
Avalon Middle													
5,500.00	8.93	14.40	5,453.87	594.61	152.65	417,683.61	528,141.65	32.1482836	-104.3759710	158.56	0.00	0.00	0.00
5,600.00	8.93	14.40	5,552.66	609.64	156.51	417,698.64	528,145.51	32.1483249	-104.3759585	162.57	0.00	0.00	0.00

Survey Report

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Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

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Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,700.00	8.93	14.40	5,651.45	624.68	160.37	417,713.68	528,149.37	32.1483663	-104.3759461	166.58	0.00	0.00	0.00
5,800.00	8.93	14.40	5,750.23	639.72	164.23	417,728.72	528,153.23	32.1484076	-104.3759336	170.59	0.00	0.00	0.00
5,900.00	8.93	14.40	5,849.02	654.75	168.10	417,743.75	528,157.10	32.1484490	-104.3759211	174.60	0.00	0.00	0.00
5,926.30	8.93	14.40	5,875.00	658.71	169.11	417,747.71	528,158.11	32.1484598	-104.3759179	175.66	0.00	0.00	0.00
1st Bone Spring													
6,000.00	8.93	14.40	5,947.81	669.79	171.96	417,758.79	528,160.96	32.1484903	-104.3759087	178.61	0.00	0.00	0.00
6,100.00	8.93	14.40	6,046.60	684.83	175.82	417,773.83	528,164.82	32.1485316	-104.3758962	182.62	0.00	0.00	0.00
6,138.87	8.93	14.40	6,085.00	690.67	177.32	417,779.67	528,166.32	32.1485477	-104.3758914	184.18	0.00	0.00	0.00
2nd Bone Spring FS													
6,200.00	8.93	14.40	6,145.38	699.86	179.68	417,788.86	528,168.68	32.1485730	-104.3758838	186.63	0.00	0.00	0.00
6,300.00	8.93	14.40	6,244.17	714.90	183.54	417,803.90	528,172.54	32.1486143	-104.3758713	190.64	0.00	0.00	0.00
6,400.00	8.93	14.40	6,342.96	729.94	187.40	417,818.94	528,176.40	32.1486557	-104.3758589	194.65	0.00	0.00	0.00
6,500.00	8.93	14.40	6,441.75	744.97	191.26	417,833.97	528,180.26	32.1486970	-104.3758464	198.66	0.00	0.00	0.00
6,513.42	8.93	14.40	6,455.00	746.99	191.78	417,835.99	528,180.78	32.1487025	-104.3758447	199.20	0.00	0.00	0.00
2nd Bone Spring Sand													
6,600.00	8.93	14.40	6,540.53	760.01	195.12	417,849.01	528,184.12	32.1487383	-104.3758340	202.67	0.00	0.00	0.00
6,700.00	8.93	14.40	6,639.32	775.05	198.98	417,864.05	528,187.98	32.1487797	-104.3758215	206.68	0.00	0.00	0.00
6,800.00	8.93	14.40	6,738.11	790.08	202.84	417,879.08	528,191.84	32.1488210	-104.3758091	210.69	0.00	0.00	0.00
6,900.00	8.93	14.40	6,836.90	805.12	206.70	417,894.12	528,195.70	32.1488624	-104.3757966	214.70	0.00	0.00	0.00
7,000.00	8.93	14.40	6,935.69	820.16	210.56	417,909.16	528,199.56	32.1489037	-104.3757841	218.71	0.00	0.00	0.00
7,100.00	8.93	14.40	7,034.47	835.19	214.42	417,924.19	528,203.42	32.1489450	-104.3757717	222.72	0.00	0.00	0.00
7,191.64	8.93	14.40	7,125.00	848.97	217.96	417,937.97	528,206.96	32.1489829	-104.3757603	226.39	0.00	0.00	0.00
Break Sand													
7,200.00	8.93	14.40	7,133.26	850.23	218.28	417,939.23	528,207.28	32.1489864	-104.3757592	226.73	0.00	0.00	0.00
7,300.00	8.93	14.40	7,232.05	865.27	222.14	417,954.27	528,211.14	32.1490277	-104.3757468	230.74	0.00	0.00	0.00
7,400.00	8.93	14.40	7,330.84	880.30	226.00	417,969.30	528,215.00	32.1490690	-104.3757343	234.75	0.00	0.00	0.00
7,500.00	8.93	14.40	7,429.62	895.34	229.86	417,984.34	528,218.86	32.1491104	-104.3757219	238.76	0.00	0.00	0.00
7,600.00	8.93	14.40	7,528.41	910.38	233.72	417,999.38	528,222.72	32.1491517	-104.3757094	242.77	0.00	0.00	0.00
7,700.00	8.93	14.40	7,627.20	925.41	237.58	418,014.41	528,226.58	32.1491931	-104.3756970	246.78	0.00	0.00	0.00
7,793.94	8.93	14.40	7,720.00	939.54	241.21	418,028.54	528,230.21	32.1492319	-104.3756853	250.54	0.00	0.00	0.00
3rd Bone Spring Sand													
7,800.00	8.93	14.40	7,725.99	940.45	241.44	418,029.45	528,230.44	32.1492344	-104.3756845	250.79	0.00	0.00	0.00
7,900.00	8.93	14.40	7,824.77	955.49	245.30	418,044.49	528,234.30	32.1492757	-104.3756721	254.80	0.00	0.00	0.00
8,000.00	8.93	14.40	7,923.56	970.52	249.16	418,059.52	528,238.16	32.1493171	-104.3756596	258.81	0.00	0.00	0.00
8,026.76	8.93	14.40	7,950.00	974.55	250.20	418,063.55	528,239.20	32.1493281	-104.3756563	259.88	0.00	0.00	0.00
3rd Bone Spring W Sand													
8,100.00	8.93	14.40	8,022.35	985.56	253.02	418,074.56	528,242.02	32.1493584	-104.3756471	262.82	0.00	0.00	0.00
8,143.17	8.93	14.40	8,065.00	992.05	254.69	418,081.05	528,243.69	32.1493763	-104.3756418	264.55	0.00	0.00	0.00

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Wolfcamp A X													
8,200.00	8.93	14.40	8,121.14	1,000.60	256.88	418,089.60	528,245.88	32.1493998	-104.3756347	266.83	0.00	0.00	0.00
8,208.97	8.93	14.40	8,130.00	1,001.95	257.23	418,090.95	528,246.23	32.1494035	-104.3756336	267.19	0.00	0.00	0.00
Wolfcamp A Y													
8,269.71	8.93	14.40	8,190.00	1,011.08	259.58	418,100.08	528,248.58	32.1494286	-104.3756260	269.62	0.00	0.00	0.00
Wolfcamp A Lower													
8,300.00	8.93	14.40	8,219.92	1,015.63	260.74	418,104.63	528,249.74	32.1494411	-104.3756222	270.84	0.00	0.00	0.00
8,391.18	8.93	14.40	8,310.00	1,029.35	264.26	418,118.35	528,253.26	32.1494788	-104.3756109	274.49	0.00	0.00	0.00
Wolfcamp B													
8,400.00	8.93	14.40	8,318.71	1,030.67	264.61	418,119.67	528,253.61	32.1494824	-104.3756098	274.85	0.00	0.00	0.00
8,462.04	8.93	14.40	8,380.00	1,040.00	267.00	418,129.00	528,256.00	32.1495081	-104.3756021	277.33	0.00	0.00	0.00
KOP; 11° DLS													
8,500.00	11.15	34.91	8,417.39	1,045.87	269.83	418,134.87	528,258.83	32.1495242	-104.3755929	280.23	11.00	5.85	54.04
8,550.00	15.36	50.60	8,466.06	1,054.04	277.72	418,143.04	528,266.72	32.1495467	-104.3755674	288.20	11.00	8.42	31.37
8,600.00	20.19	59.32	8,513.67	1,062.65	290.27	418,151.65	528,279.27	32.1495704	-104.3755269	300.83	11.00	9.66	17.43
8,650.00	25.28	64.71	8,559.77	1,071.62	307.36	418,160.62	528,296.36	32.1495951	-104.3754717	318.00	11.00	10.19	10.78
8,700.00	30.51	68.37	8,603.95	1,080.87	328.83	418,169.87	528,317.83	32.1496205	-104.3754023	339.56	11.00	10.46	7.32
8,749.02	35.71	71.00	8,645.00	1,090.12	353.94	418,179.12	528,342.94	32.1496460	-104.3753212	364.77	11.00	10.61	5.36
Wolfcamp B1													
8,750.00	35.81	71.04	8,645.79	1,090.31	354.48	418,179.31	528,343.48	32.1496465	-104.3753195	365.31	11.00	10.66	4.65
8,800.00	41.16	73.10	8,684.92	1,099.85	384.08	418,188.85	528,373.08	32.1496727	-104.3752238	395.01	11.00	10.70	4.12
8,850.00	46.54	74.77	8,720.96	1,109.41	417.36	418,198.41	528,406.36	32.1496990	-104.3751163	428.38	11.00	10.76	3.32
8,900.00	51.94	76.15	8,753.60	1,118.89	454.01	418,207.89	528,443.01	32.1497252	-104.3749979	465.12	11.00	10.80	2.78
8,950.00	57.35	77.35	8,782.52	1,128.22	493.69	418,217.22	528,482.69	32.1497508	-104.3748697	504.89	11.00	10.83	2.39
8,984.16	61.06	78.09	8,800.00	1,134.46	522.36	418,223.46	528,511.36	32.1497680	-104.3747771	533.62	11.00	10.84	2.16
Wolfcamp C													
9,000.00	62.78	78.41	8,807.46	1,137.30	536.04	418,226.30	528,525.04	32.1497759	-104.3747328	547.33	11.00	10.85	2.04
9,050.00	68.21	79.37	8,828.19	1,146.06	580.67	418,235.06	528,569.67	32.1498000	-104.3745887	592.04	11.00	10.86	1.92
9,100.00	73.64	80.26	8,844.53	1,154.40	627.16	418,243.40	528,616.16	32.1498230	-104.3744384	638.62	11.00	10.87	1.78
9,150.00	79.08	81.10	8,856.31	1,162.26	675.09	418,251.26	528,664.09	32.1498446	-104.3742836	686.62	11.00	10.88	1.68
9,178.25	82.15	81.57	8,860.92	1,166.46	702.65	418,255.46	528,691.65	32.1498562	-104.3741945	714.22	11.00	10.88	1.63
FTP - High Life Fed Com #231H													
9,200.00	84.52	81.92	8,863.44	1,169.56	724.02	418,258.56	528,713.02	32.1498647	-104.3741255	735.62	11.00	10.88	1.61
9,236.55	88.50	82.50	8,865.67	1,174.51	760.16	418,263.51	528,749.16	32.1498784	-104.3740087	771.81	11.00	10.88	1.60
LP / Begin Turn													
9,300.00	88.50	83.77	8,867.33	1,182.09	823.13	418,271.09	528,812.13	32.1498993	-104.3738053	834.85	2.00	0.00	2.00
9,400.00	88.50	85.77	8,869.95	1,191.20	922.68	418,280.20	528,911.68	32.1499244	-104.3734836	934.48	2.00	0.00	2.00
9,500.00	88.50	87.77	8,872.57	1,196.83	1,022.48	418,285.83	529,011.48	32.1499400	-104.3731612	1,034.33	2.00	0.00	2.00
9,582.82	88.50	89.43	8,874.73	1,198.86	1,105.25	418,287.86	529,094.25	32.1499457	-104.3728937	1,117.12	2.00	0.00	2.00
EOT / Hold													

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.00	88.50	89.43	8,875.18	1,199.03	1,122.42	418,288.03	529,111.42	32.1499461	-104.3728382	1,134.29	0.00	0.00	0.00
9,700.00	88.50	89.43	8,877.79	1,200.03	1,222.38	418,289.03	529,211.38	32.1499490	-104.3725152	1,234.26	0.00	0.00	0.00
9,800.00	88.50	89.43	8,880.41	1,201.03	1,322.34	418,290.03	529,311.34	32.1499518	-104.3721923	1,334.22	0.00	0.00	0.00
9,900.00	88.50	89.43	8,883.02	1,202.02	1,422.30	418,291.02	529,411.30	32.1499547	-104.3718693	1,434.19	0.00	0.00	0.00
10,000.00	88.50	89.43	8,885.63	1,203.02	1,522.26	418,292.02	529,511.26	32.1499575	-104.3715463	1,534.15	0.00	0.00	0.00
10,100.00	88.50	89.43	8,888.25	1,204.02	1,622.22	418,293.02	529,611.22	32.1499604	-104.3712233	1,634.12	0.00	0.00	0.00
10,200.00	88.50	89.43	8,890.86	1,205.02	1,722.18	418,294.02	529,711.18	32.1499632	-104.3709003	1,734.08	0.00	0.00	0.00
10,300.00	88.50	89.43	8,893.47	1,206.02	1,822.14	418,295.02	529,811.14	32.1499660	-104.3705773	1,834.05	0.00	0.00	0.00
10,400.00	88.50	89.43	8,896.08	1,207.02	1,922.10	418,296.02	529,911.10	32.1499689	-104.3702543	1,934.02	0.00	0.00	0.00
10,500.00	88.50	89.43	8,898.70	1,208.01	2,022.06	418,297.01	530,011.06	32.1499717	-104.3699313	2,033.98	0.00	0.00	0.00
10,600.00	88.50	89.43	8,901.31	1,209.01	2,122.03	418,298.01	530,111.03	32.1499746	-104.3696083	2,133.95	0.00	0.00	0.00
10,700.00	88.50	89.43	8,903.92	1,210.01	2,221.99	418,299.01	530,210.99	32.1499774	-104.3692853	2,233.91	0.00	0.00	0.00
10,800.00	88.50	89.43	8,906.54	1,211.01	2,321.95	418,300.01	530,310.95	32.1499802	-104.3689623	2,333.88	0.00	0.00	0.00
10,900.00	88.50	89.43	8,909.15	1,212.01	2,421.91	418,301.01	530,410.91	32.1499831	-104.3686393	2,433.85	0.00	0.00	0.00
11,000.00	88.50	89.43	8,911.76	1,213.01	2,521.87	418,302.01	530,510.87	32.1499859	-104.3683163	2,533.81	0.00	0.00	0.00
11,100.00	88.50	89.43	8,914.38	1,214.00	2,621.83	418,303.00	530,610.83	32.1499887	-104.3679933	2,633.78	0.00	0.00	0.00
11,200.00	88.50	89.43	8,916.99	1,215.00	2,721.79	418,304.00	530,710.79	32.1499916	-104.3676704	2,733.74	0.00	0.00	0.00
11,300.00	88.50	89.43	8,919.60	1,216.00	2,821.75	418,305.00	530,810.75	32.1499944	-104.3673474	2,833.71	0.00	0.00	0.00
11,400.00	88.50	89.43	8,922.21	1,217.00	2,921.71	418,306.00	530,910.71	32.1499972	-104.3670244	2,933.67	0.00	0.00	0.00
11,500.00	88.50	89.43	8,924.83	1,218.00	3,021.67	418,307.00	531,010.67	32.1500000	-104.3667014	3,033.64	0.00	0.00	0.00
11,600.00	88.50	89.43	8,927.44	1,219.00	3,121.63	418,308.00	531,110.63	32.1500029	-104.3663784	3,133.61	0.00	0.00	0.00
11,700.00	88.50	89.43	8,930.05	1,219.99	3,221.59	418,308.99	531,210.59	32.1500057	-104.3660554	3,233.57	0.00	0.00	0.00
11,800.00	88.50	89.43	8,932.67	1,220.99	3,321.56	418,309.99	531,310.56	32.1500085	-104.3657324	3,333.54	0.00	0.00	0.00
11,900.00	88.50	89.43	8,935.28	1,221.99	3,421.52	418,310.99	531,410.52	32.1500114	-104.3654094	3,433.50	0.00	0.00	0.00
12,000.00	88.50	89.43	8,937.89	1,222.99	3,521.48	418,311.99	531,510.48	32.1500142	-104.3650864	3,533.47	0.00	0.00	0.00
12,100.00	88.50	89.43	8,940.50	1,223.99	3,621.44	418,312.99	531,610.44	32.1500170	-104.3647634	3,633.44	0.00	0.00	0.00
12,200.00	88.50	89.43	8,943.12	1,224.99	3,721.40	418,313.99	531,710.40	32.1500198	-104.3644404	3,733.40	0.00	0.00	0.00
12,300.00	88.50	89.43	8,945.73	1,225.98	3,821.36	418,314.98	531,810.36	32.1500227	-104.3641174	3,833.37	0.00	0.00	0.00
12,400.00	88.50	89.43	8,948.34	1,226.98	3,921.32	418,315.98	531,910.32	32.1500255	-104.3637944	3,933.33	0.00	0.00	0.00
12,500.00	88.50	89.43	8,950.96	1,227.98	4,021.28	418,316.98	532,010.28	32.1500283	-104.3634714	4,033.30	0.00	0.00	0.00
12,600.00	88.50	89.43	8,953.57	1,228.98	4,121.24	418,317.98	532,110.24	32.1500311	-104.3631485	4,133.26	0.00	0.00	0.00
12,700.00	88.50	89.43	8,956.18	1,229.98	4,221.20	418,318.98	532,210.20	32.1500339	-104.3628255	4,233.23	0.00	0.00	0.00
12,800.00	88.50	89.43	8,958.79	1,230.98	4,321.16	418,319.98	532,310.16	32.1500368	-104.3625025	4,333.20	0.00	0.00	0.00
12,900.00	88.50	89.43	8,961.41	1,231.97	4,421.13	418,320.97	532,410.13	32.1500396	-104.3621795	4,433.16	0.00	0.00	0.00
13,000.00	88.50	89.43	8,964.02	1,232.97	4,521.09	418,321.97	532,510.09	32.1500424	-104.3618565	4,533.13	0.00	0.00	0.00
13,100.00	88.50	89.43	8,966.63	1,233.97	4,621.05	418,322.97	532,610.05	32.1500452	-104.3615335	4,633.09	0.00	0.00	0.00
13,200.00	88.50	89.43	8,969.25	1,234.97	4,721.01	418,323.97	532,710.01	32.1500480	-104.3612105	4,733.06	0.00	0.00	0.00
13,300.00	88.50	89.43	8,971.86	1,235.97	4,820.97	418,324.97	532,809.97	32.1500508	-104.3608875	4,833.03	0.00	0.00	0.00

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,400.00	88.50	89.43	8,974.47	1,236.97	4,920.93	418,325.97	532,909.93	32.1500537	-104.3605645	4,932.99	0.00	0.00	0.00
13,500.00	88.50	89.43	8,977.08	1,237.96	5,020.89	418,326.96	533,009.89	32.1500565	-104.3602415	5,032.96	0.00	0.00	0.00
13,600.00	88.50	89.43	8,979.70	1,238.96	5,120.85	418,327.96	533,109.85	32.1500593	-104.3599185	5,132.92	0.00	0.00	0.00
13,700.00	88.50	89.43	8,982.31	1,239.96	5,220.81	418,328.96	533,209.81	32.1500621	-104.3595955	5,232.89	0.00	0.00	0.00
13,800.00	88.50	89.43	8,984.92	1,240.96	5,320.77	418,329.96	533,309.77	32.1500649	-104.3592725	5,332.86	0.00	0.00	0.00
13,900.00	88.50	89.43	8,987.54	1,241.96	5,420.73	418,330.96	533,409.73	32.1500677	-104.3589495	5,432.82	0.00	0.00	0.00
14,000.00	88.50	89.43	8,990.15	1,242.96	5,520.69	418,331.96	533,509.69	32.1500705	-104.3586266	5,532.79	0.00	0.00	0.00
14,100.00	88.50	89.43	8,992.76	1,243.95	5,620.66	418,332.95	533,609.66	32.1500733	-104.3583036	5,632.75	0.00	0.00	0.00
14,200.00	88.50	89.43	8,995.37	1,244.95	5,720.62	418,333.95	533,709.62	32.1500761	-104.3579806	5,732.72	0.00	0.00	0.00
14,300.00	88.50	89.43	8,997.99	1,245.95	5,820.58	418,334.95	533,809.58	32.1500790	-104.3576576	5,832.68	0.00	0.00	0.00
14,400.00	88.50	89.43	9,000.60	1,246.95	5,920.54	418,335.95	533,909.54	32.1500818	-104.3573346	5,932.65	0.00	0.00	0.00
14,500.00	88.50	89.43	9,003.21	1,247.95	6,020.50	418,336.95	534,009.50	32.1500846	-104.3570116	6,032.62	0.00	0.00	0.00
14,600.00	88.50	89.43	9,005.83	1,248.95	6,120.46	418,337.95	534,109.46	32.1500874	-104.3566886	6,132.58	0.00	0.00	0.00
14,700.00	88.50	89.43	9,008.44	1,249.94	6,220.42	418,338.94	534,209.42	32.1500902	-104.3563656	6,232.55	0.00	0.00	0.00
14,800.00	88.50	89.43	9,011.05	1,250.94	6,320.38	418,339.94	534,309.38	32.1500930	-104.3560426	6,332.51	0.00	0.00	0.00
14,900.00	88.50	89.43	9,013.67	1,251.94	6,420.34	418,340.94	534,409.34	32.1500958	-104.3557196	6,432.48	0.00	0.00	0.00
15,000.00	88.50	89.43	9,016.28	1,252.94	6,520.30	418,341.94	534,509.30	32.1500986	-104.3553966	6,532.45	0.00	0.00	0.00
15,100.00	88.50	89.43	9,018.89	1,253.94	6,620.26	418,342.94	534,609.26	32.1501014	-104.3550736	6,632.41	0.00	0.00	0.00
15,200.00	88.50	89.43	9,021.50	1,254.94	6,720.23	418,343.94	534,709.23	32.1501042	-104.3547506	6,732.38	0.00	0.00	0.00
15,300.00	88.50	89.43	9,024.12	1,255.93	6,820.19	418,344.93	534,809.19	32.1501070	-104.3544276	6,832.34	0.00	0.00	0.00
15,400.00	88.50	89.43	9,026.73	1,256.93	6,920.15	418,345.93	534,909.15	32.1501098	-104.3541046	6,932.31	0.00	0.00	0.00
15,500.00	88.50	89.43	9,029.34	1,257.93	7,020.11	418,346.93	535,009.11	32.1501126	-104.3537817	7,032.27	0.00	0.00	0.00
15,600.00	88.50	89.43	9,031.96	1,258.93	7,120.07	418,347.93	535,109.07	32.1501154	-104.3534587	7,132.24	0.00	0.00	0.00
15,700.00	88.50	89.43	9,034.57	1,259.93	7,220.03	418,348.93	535,209.03	32.1501182	-104.3531357	7,232.21	0.00	0.00	0.00
15,800.00	88.50	89.43	9,037.18	1,260.93	7,319.99	418,349.93	535,308.99	32.1501210	-104.3528127	7,332.17	0.00	0.00	0.00
15,900.00	88.50	89.43	9,039.79	1,261.92	7,419.95	418,350.92	535,408.95	32.1501238	-104.3524897	7,432.14	0.00	0.00	0.00
16,000.00	88.50	89.43	9,042.41	1,262.92	7,519.91	418,351.92	535,508.91	32.1501265	-104.3521667	7,532.10	0.00	0.00	0.00
16,100.00	88.50	89.43	9,045.02	1,263.92	7,619.87	418,352.92	535,608.87	32.1501293	-104.3518437	7,632.07	0.00	0.00	0.00
16,200.00	88.50	89.43	9,047.63	1,264.92	7,719.83	418,353.92	535,708.83	32.1501321	-104.3515207	7,732.04	0.00	0.00	0.00
16,300.00	88.50	89.43	9,050.25	1,265.92	7,819.80	418,354.92	535,808.79	32.1501349	-104.3511977	7,832.00	0.00	0.00	0.00
16,400.00	88.50	89.43	9,052.86	1,266.92	7,919.76	418,355.92	535,908.76	32.1501377	-104.3508747	7,931.97	0.00	0.00	0.00
16,500.00	88.50	89.43	9,055.47	1,267.92	8,019.72	418,356.92	536,008.72	32.1501405	-104.3505517	8,031.93	0.00	0.00	0.00
16,600.00	88.50	89.43	9,058.08	1,268.91	8,119.68	418,357.91	536,108.68	32.1501433	-104.3502287	8,131.90	0.00	0.00	0.00
16,700.00	88.50	89.43	9,060.70	1,269.91	8,219.64	418,358.91	536,208.64	32.1501461	-104.3499057	8,231.87	0.00	0.00	0.00
16,800.00	88.50	89.43	9,063.31	1,270.91	8,319.60	418,359.91	536,308.60	32.1501489	-104.3495827	8,331.83	0.00	0.00	0.00
16,900.00	88.50	89.43	9,065.92	1,271.91	8,419.56	418,360.91	536,408.56	32.1501516	-104.3492597	8,431.80	0.00	0.00	0.00
17,000.00	88.50	89.43	9,068.54	1,272.91	8,519.52	418,361.91	536,508.52	32.1501544	-104.3489367	8,531.76	0.00	0.00	0.00

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Planned Survey

Measured Depth (usft)	INC (°)	AZI (°)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Map Coordinates Northing (usft)	Map Coordinates Easting (usft)	Geo Coordinates Latitude (°)	Geo Coordinates Longitude (°)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
17,100.00	88.50	89.43	9,071.15	1,273.91	8,619.48	418,362.91	536,608.48	32.1501572	-104.3486138	8,631.73	0.00	0.00	0.00
17,200.00	88.50	89.43	9,073.76	1,274.90	8,719.44	418,363.90	536,708.44	32.1501600	-104.3482908	8,731.69	0.00	0.00	0.00
17,300.00	88.50	89.43	9,076.37	1,275.90	8,819.40	418,364.90	536,808.40	32.1501628	-104.3479678	8,831.66	0.00	0.00	0.00
17,400.00	88.50	89.43	9,078.99	1,276.90	8,919.36	418,365.90	536,908.36	32.1501656	-104.3476448	8,931.63	0.00	0.00	0.00
17,500.00	88.50	89.43	9,081.60	1,277.90	9,019.33	418,366.90	537,008.33	32.1501683	-104.3473218	9,031.59	0.00	0.00	0.00
17,600.00	88.50	89.43	9,084.21	1,278.90	9,119.29	418,367.90	537,108.29	32.1501711	-104.3469988	9,131.56	0.00	0.00	0.00
17,700.00	88.50	89.43	9,086.83	1,279.90	9,219.25	418,368.90	537,208.25	32.1501739	-104.3466758	9,231.52	0.00	0.00	0.00
17,800.00	88.50	89.43	9,089.44	1,280.89	9,319.21	418,369.89	537,308.21	32.1501767	-104.3463528	9,331.49	0.00	0.00	0.00
17,900.00	88.50	89.43	9,092.05	1,281.89	9,419.17	418,370.89	537,408.17	32.1501795	-104.3460298	9,431.46	0.00	0.00	0.00
18,000.00	88.50	89.43	9,094.66	1,282.89	9,519.13	418,371.89	537,508.13	32.1501822	-104.3457068	9,531.42	0.00	0.00	0.00
18,100.00	88.50	89.43	9,097.28	1,283.89	9,619.09	418,372.89	537,608.09	32.1501850	-104.3453838	9,631.39	0.00	0.00	0.00
18,200.00	88.50	89.43	9,099.89	1,284.89	9,719.05	418,373.89	537,708.05	32.1501878	-104.3450608	9,731.35	0.00	0.00	0.00
18,300.00	88.50	89.43	9,102.50	1,285.89	9,819.01	418,374.89	537,808.01	32.1501906	-104.3447378	9,831.32	0.00	0.00	0.00
18,400.00	88.50	89.43	9,105.12	1,286.88	9,918.97	418,375.88	537,907.97	32.1501933	-104.3444148	9,931.28	0.00	0.00	0.00
18,500.00	88.50	89.43	9,107.73	1,287.88	10,018.93	418,376.88	538,007.93	32.1501961	-104.3440918	10,031.25	0.00	0.00	0.00
18,600.00	88.50	89.43	9,110.34	1,288.88	10,118.90	418,377.88	538,107.90	32.1501989	-104.3437688	10,131.22	0.00	0.00	0.00
18,700.00	88.50	89.43	9,112.96	1,289.88	10,218.86	418,378.88	538,207.86	32.1502016	-104.3434458	10,231.18	0.00	0.00	0.00
18,800.00	88.50	89.43	9,115.57	1,290.88	10,318.82	418,379.88	538,307.82	32.1502044	-104.3431229	10,331.15	0.00	0.00	0.00
18,900.00	88.50	89.43	9,118.18	1,291.88	10,418.78	418,380.88	538,407.78	32.1502072	-104.3427999	10,431.11	0.00	0.00	0.00
19,000.00	88.50	89.43	9,120.79	1,292.87	10,518.74	418,381.87	538,507.74	32.1502099	-104.3424769	10,531.08	0.00	0.00	0.00
19,100.00	88.50	89.43	9,123.41	1,293.87	10,618.70	418,382.87	538,607.70	32.1502127	-104.3421539	10,631.05	0.00	0.00	0.00
19,188.34	88.50	89.43	9,125.72	1,294.75	10,707.00	418,383.75	538,696.00	32.1502152	-104.3418685	10,719.35	0.00	0.00	0.00
LTP - High Life Fed Com #231H													
19,200.00	88.50	89.43	9,126.02	1,294.87	10,718.66	418,383.87	538,707.66	32.1502155	-104.3418309	10,731.01	0.00	0.00	0.00
19,300.00	88.50	89.43	9,128.63	1,295.87	10,818.62	418,384.87	538,807.62	32.1502182	-104.3415079	10,830.98	0.00	0.00	0.00
19,400.00	88.50	89.43	9,131.25	1,296.87	10,918.58	418,385.87	538,907.58	32.1502210	-104.3411849	10,930.94	0.00	0.00	0.00
19,500.00	88.50	89.43	9,133.86	1,297.87	11,018.54	418,386.87	539,007.54	32.1502238	-104.3408619	11,030.91	0.00	0.00	0.00
19,513.46	88.50	89.43	9,134.21	1,298.00	11,032.00	418,387.00	539,021.00	32.1502241	-104.3408184	11,044.37	0.00	0.00	0.00
PBHL - PBHL - High Life Fed Com #231H													

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

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
FTP - High Life Fed Com	0.00	0.00	8,863.59	1,195.00	698.00	418,284.00	528,687.00	32.1499346	-104.3742096
- plan misses target center by 29.04usft at 9178.25usft MD (8860.92 TVD, 1166.46 N, 702.65 E)									
- Point									
LTP - High Life Fed Com	0.00	0.01	9,125.70	1,295.00	10,707.00	418,384.00	538,696.00	32.1502158	-104.3418686
- plan misses target center by 0.25usft at 19188.34usft MD (9125.71 TVD, 1294.75 N, 10707.00 E)									
- Point									
PBHL - High Life Fed Cc	91.50	89.43	9,134.21	1,298.00	11,032.00	418,387.00	539,021.00	32.1502241	-104.3408184
- plan hits target center									
- Rectangle (sides W100.00 H20.00 D10,560.00)									

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
37.00	37.00	Rustler			
337.00	337.00	Top Salt			
1,236.01	1,236.00	Base Salt			
1,462.24	1,462.00	Delaware			
1,463.24	1,463.00	Lamar			
1,492.31	1,492.00	Bell			
1,585.58	1,585.00	Ramsey			
2,418.77	2,410.00	Cherry			
3,350.06	3,330.00	Brushy			
5,060.80	5,020.00	Bone Spring			
5,121.54	5,080.00	Avalon			
5,430.28	5,385.00	Avalon Middle			
5,926.30	5,875.00	1st Bone Spring			
6,138.87	6,085.00	2nd Bone Spring FS			
6,513.42	6,455.00	2nd Bone Spring Sand			
7,191.64	7,125.00	Break Sand			
7,793.94	7,720.00	3rd Bone Spring Sand			
8,026.76	7,950.00	3rd Bone Spring W Sand			
8,143.17	8,065.00	Wolfcamp A X			
8,208.97	8,130.00	Wolfcamp A Y			
8,269.71	8,190.00	Wolfcamp A Lower			
8,391.18	8,310.00	Wolfcamp B			
8,749.02	8,645.00	Wolfcamp B1			
8,984.16	8,800.00	Wolfcamp C			

Survey Report

Company:	Tap Rock Resources, LLC	**Local Co-ordinate Reference:**	Well High Life Fed Com #231H
Project:	Eddy County, NM (NAD 83 NME)	**TVD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Site:	Sec-10-25S-25E(High Life N)	**MD Reference:**	GE 3512' + KB 26' @ 3538.00usft
Well:	High Life Fed Com #231H	**North Reference:**	Grid
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	Plan 1	**Database:**	EDM 5000.1 Single User Db

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
1100	1100	0	0	Begin Nudge
1993	1989	67	17	EOB / Hold
8462	8380	1040	267	KOP; 11° DLS
9237	8866	1175	760	LP / Begin Turn
9583	8875	1199	1105	EOT / Hold
19,513	9134	1298	11,032	PBHL

Checked By: _____ Approved By: _____ Date: _____

PECOS DISTRICT
DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	High Life Fed Com 231H
LOCATION:	Sec 11-25S-25E-NMP
COUNTY:	Eddy County, New Mexico

COA

H_2S	◉ No	○ Yes		
Potash / WIPP	◉ None	○ Secretary	○ R-111-P	☐ WIPP
Cave / Karst	○ Low	○ Medium	○ High	◉ Critical
Wellhead	○ Conventional	◉ Multibowl	○ Both	○ Diverter
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	☐ DV Tool
Special Req	☐ Break Testing	☐ Water Disposal	☑ COM	☐ Unit
Variance	☑ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	☐ Capitan Reef
Variance	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled	☐ Open Annulus
☐ **Batch APD / Sundry**				

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 Onshore Order 6 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 **10-3/4** inch surface casing shall be set at approximately 350 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface. ***Set depth adjusted per BLM geologist.***

    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. (This is to include the lead cement)
    c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

 Approval Date: 11/21/2023

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 **7-5/8** 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 cave/karst, Capitan Reef, or potash.**

❖ In Critical Cave/Karst Areas cement must come to surface on the first three casing strings.

3. The minimum required fill of cement behind the **5-1/2** inch production casing is:

- Cement to surface. If cement does not circulate, contact the appropriate BLM office. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst, Capitan Reef, or potash.**
- **Current cement volumes are inadequate to reach surface.** Please adjust volumes to reach surface as well is within critical karst area and that is a requirement.

C. PRESSURE CONTROL

1. 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).'

2. 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.

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)

☒ Eddy County
Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, **BLM_NM_CFO_DrillingNotifications@BLM.GOV**
(575) 361-2822

☒ Lea County
Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240,
(575) 689-5981

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
   - Notify the BLM when moving in and removing the Spudder Rig.
   - 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.
   - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 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. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

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, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing intergrity 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-P 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 part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.

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:

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. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
e. 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.

a. 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).

b. 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.)

c. 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 part 3170 Subpart 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 water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

d. 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.

e. The results of the test shall be reported to the appropriate BLM office.

f. 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.

g. 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.

h. 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 part 3170 Subpart 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.

Hydrogen Sulfide Drilling

Operations Plan

Tap Rock Resources

1 H2S safety instructions to the following:

- Characteristics of H2S
- Physical effects and hazards
- Principal and operation of H2S detectors, warning system and briefing areas
- Evacuation procedures, routes and first aid
- Proper use of safety equipment & life support systems
- Essential personnel meeting medical evaluation criteria will receive additional training on the proper use of 30min pressure demand air packs

2 H2S Detection and Alarm Systems:

- H2S sensor/detectors to be located on the drilling rig floor, in the base of the sub structure / cellar area, on the mud pits in the shale shaker area. Additional H2S detectors may be placed as deemed necessary
- An audio alarm system will be installed on the derrick floor and in the doghouse

3 Windsocks and / Wind Streamers:

- Windsocks at mud pit area should be high enough to be visible
- Windsock on the rig floor and / top of doghouse should be high enough to be visible

4 Condition Flags and Signs:

- Warning sign on access road to location
- Flags to be displayed on sign at entrance to location
    - Green Flag – Normal Safe Operation Condition
    - Yellow Flag – Potential Pressure and Danger
    - Red Flag – Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 Well Control Equipment:

- See Drilling Operations Plan Schematics

6 Communication:

- While working under masks chalkboards will be used for communications
- Hand signals will be used where chalk board is inappropriate
- Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 Drilling Stem Testing:

- No DST cores are planned at this time

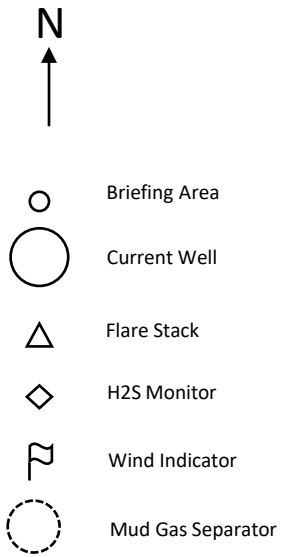
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

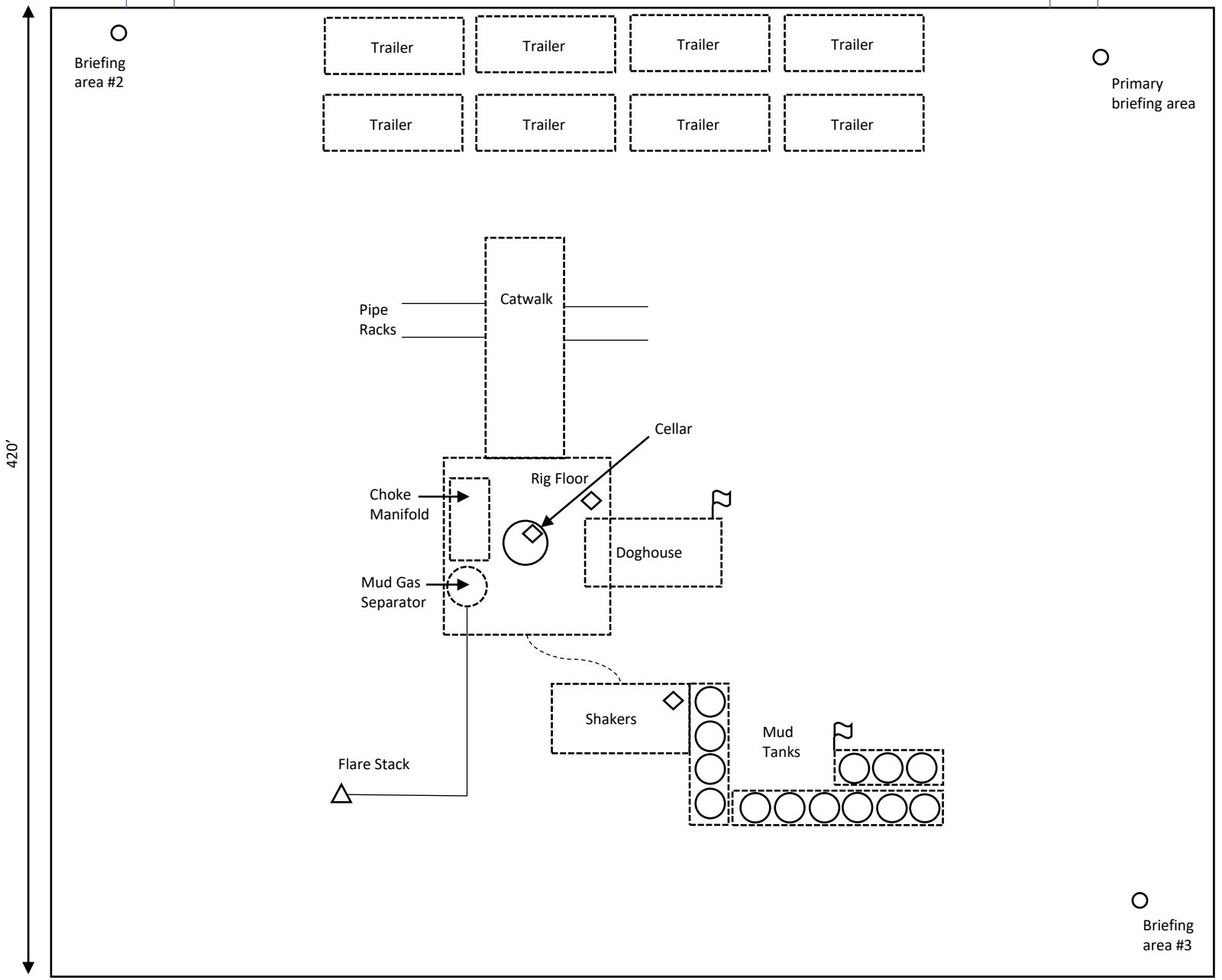
9 If H2S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas separator will be brought into service along with H2S scavengers if necessary

11 Emergency Contacts

Emergency Contacts		
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911
Jal Fire Department	575.395.2221	911
Tap Rock Resources	720.772.5090	

Rig Diagram
High Life Fed Com
Slot 1 Pad
Tap Rock Operating, LLC
10-25S-25E
Eddy County, NM





Tap Rock Operating LLC

High Life Fed Com Slot 1 Pad
H2S Contingency Plan:
2 Mile Radius Map

Sec. 10, Township 25S, Range 25E
Eddy County, New Mexico

Well Pad Location

1:27,000

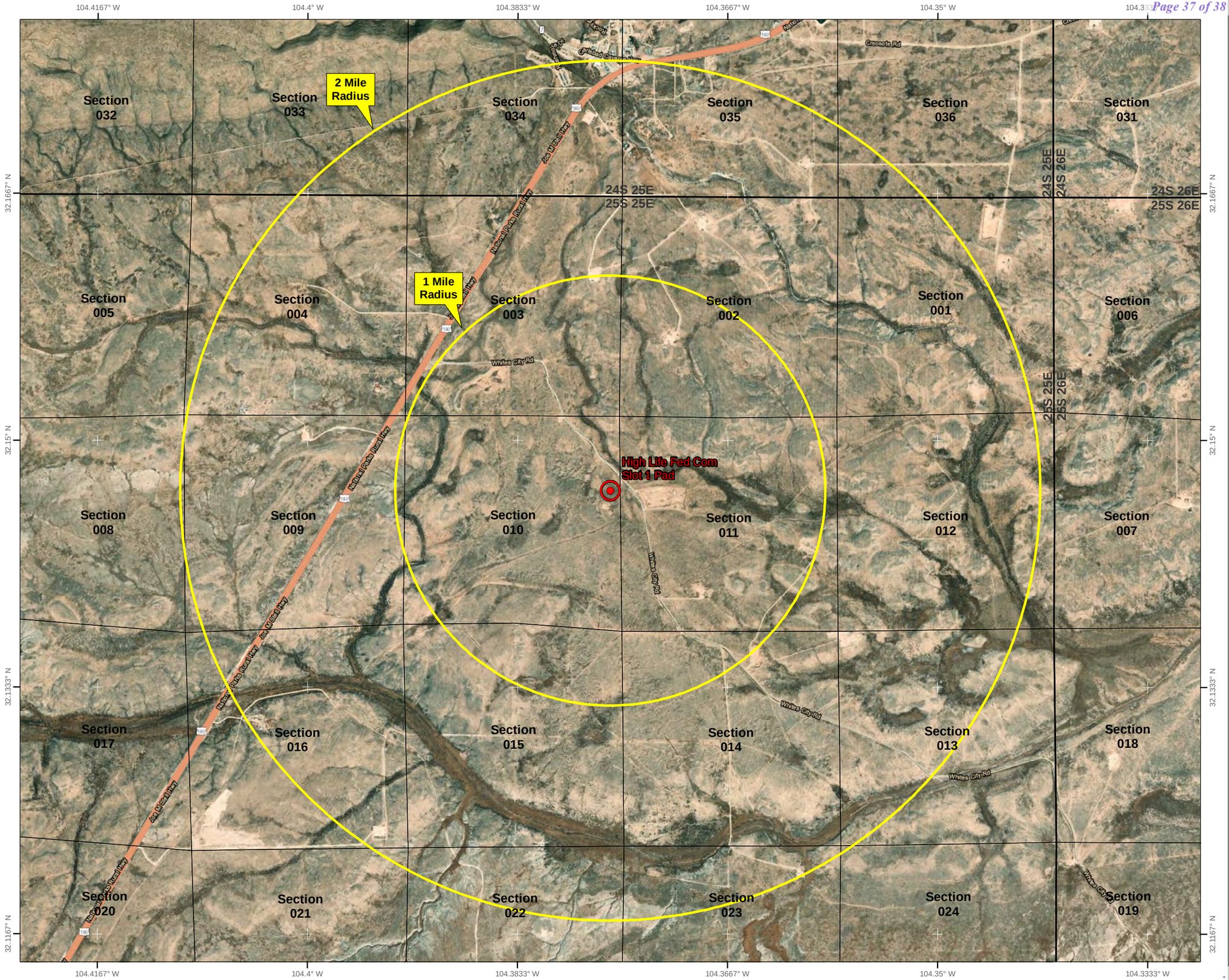
0 0.25 0.5 1
Miles

N

NAD 1983 New Mexico State Plane East
FIPS 3001 Feet

PERMITS WEST

Prepared by Permits West, Inc., June 29, 2023
for Tap Rock Operating, LLC



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

CONDITIONS

Action 289092

CONDITIONS

Operator: TAP ROCK OPERATING, LLC 523 Park Point Drive Golden, CO 80401	OGRID: 372043
	Action Number: 289092
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	12/21/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	12/21/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	12/21/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	12/21/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	12/21/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	12/21/2023