Form 3160-3 FORM APPROVED OMB No. 1004-0137 (June 2015) Expires: January 31, 2018 **UNITED STATES** DEPARTMENT OF THE INTERIOR 5. Lease Serial No. BUREAU OF LAND MANAGEMENT APPLICATION FOR PERMIT TO DRILL OR REENTER 6. If Indian, Allotee or Tribe Name 7. If Unit or CA Agreement, Name and No. DRILL REENTER 1a. Type of work: 1b. Type of Well: Oil Well Gas Well Other 8. Lease Name and Well No. 1c. Type of Completion: Hydraulic Fracturing Single Zone Multiple Zone 2. Name of Operator 9. API Well No. 30-015-54517 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.*) 11. Sec., T. R. M. or Blk. and Survey or Area At surface At proposed prod. zone 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13. State 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 18. Distance from proposed location* 19. Proposed Depth 20. BLM/BIA Bond No. in file to nearest well, drilling, completed, applied for, on this lease, ft. 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. 4. Bond to cover the operations unless covered by an existing bond on file (see 2. A Drilling Plan. Item 20 above). 3. A Surface Use Plan (if the location is on National Forest System Lands, the 5. Operator certification. 6. Such other site specific information and/or plans as may be requested by the SUPO must be filed with the appropriate Forest Service Office). 25. Signature Name (Printed/Typed) Date Title Approved by (Signature) Date Name (Printed/Typed) 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)

Section Township

Range

Lot Idn

<u>District I</u> 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 Prione: (5/5) /48-1283 Fax: (5/5) /48-9/20 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- 54517 974		97494	Cottonwood Draw; Bone Spring		
⁴ Property Code		⁵ Pr	operty Name	⁶ Well Number	
335064	HIGH LIFE FED COM 124H				
⁷ OGRID N₀.		⁸ O _I	perator Name	⁹ Elevation	
372043	TAP ROCK OPERATING, LLC. 3489'			3489'	
		100	form Longtion		

Surface Location Feet from the

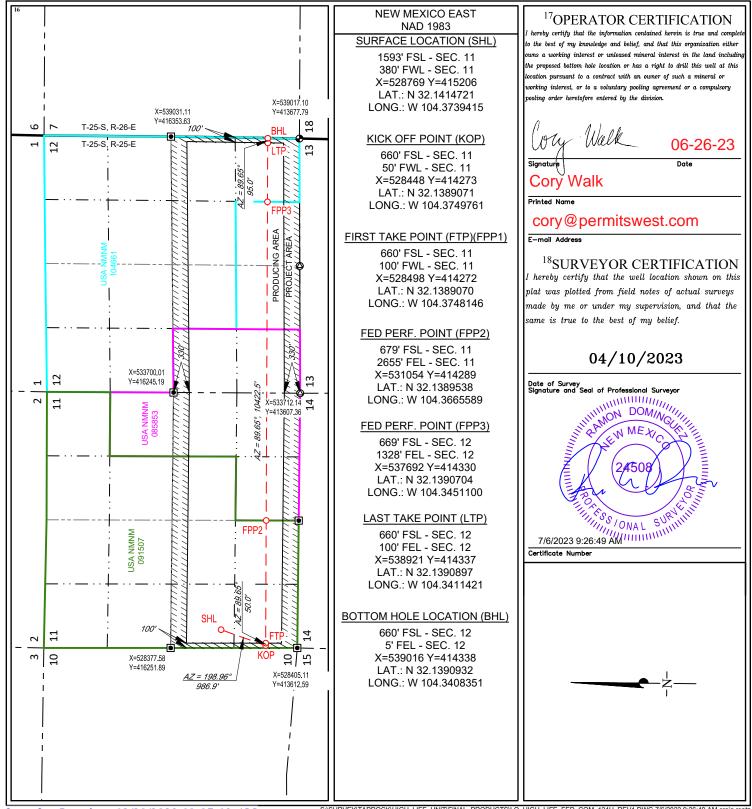
North/South line

Feet from the

East/West line

L	11	25-S	25-E	_	1593'	SOUTH	380'	WEST	EDDY
			11]	Bottom Ho	le Location If D	Different From Su	rface		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	12	25-S	25-E	-	660'	SOUTH	5'	EAST	EDDY
¹² Dedicated Acres	¹³ Joint or l	Infill 14Co	onsolidation Co	de ¹⁵ Ord	er 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.



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.

			1 1 – P		escription , 2021					
I. Operator:Ta	p Rock Ope	rating LLC	OG	RID: _	372043_		Da	te: _11/6/	/2023	}
II. Type: ⊠ Original □	☐ Amendme	ent due to ☐ 19.15.27	7.9.D(6)(a) NMA	C □ 19.15.27.9.I	O(6)(b) N	NMAC	☐ Other.		
If Other, please describe	:									
III. Well(s): Provide the be recompleted from a s						wells pr	roposed	l to be dri	lled o	or proposed to
Well Name	AP	ULSTR	ULSTR		Footages		Anticipated Oil BBL/D		ted D	Anticipated Produced Water
High Life Fed Com 124	H	Sec 11, T25S R 2	25E 1	593 FSI	L, 380 FWL	1230 7100			1830	
V. Anticipated Schedul proposed to be recomple	e: Provide to	he following informatingle well pad or con	ation for nnected t	each nev	w or recompleted	well or s	et of w			
Well Name	API	Spud Date	l l	eached ate	Completic Commencemer			al Flow k Date	Firs	st Production Date
High Life Fed Com 124H		4/1/23	5/1/22		6/1/23		6/30/2	23	7/5/	/23
VI. Separation Equipm VII. Operational Pract Subsection A through F VIII. Best Management during active and planne	tices: At of 19.15.27	tach a complete desc 8 NMAC. : ⊠ Attach a comple	cription o	of the ac	ctions Operator w	ill take t	o comp	oly with the	he re	quirements of

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. \square 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 hav	e capacity to gather	100% of the anticipated	l natural gas
production volume from the well	prior to the date of first	production.			

XIII. Line Pressure. Operator \square does \square does not anticipate that its existing well(s) connected to the same segment, or portion	on, 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 pre

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. <i>If Operator checks this box, Operator will select one of the following:</i>	
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:
- Operator becomes aware that the natural gas gathering system it planned to connect the well(s) to has become (a) 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
- 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 lowpressure 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.



Elevation above Sea Level: 3489'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler	40	40	Anhydrite	None
Top Salt	340	340	Salt	Salt
Base Salt	1,240	1,240	Salt	Salt
DMG	1,435	1,435	Sandstone	None
Lamar	1,445	1,445	Sandstone	Hydrocarbons
Bell Canyon	1,505	1,506	Sandstone	Hydrocarbons
Ramsey Sand	1,545	1,546	Sandstone	Hydrocarbons
Cherry Canyon	2,375	2,388	Limestone	Hydrocarbons
Brushy Canyon	3,295	3,330	Sandstone	Hydrocarbons
Bone Spring Lime	4,985	5,059	Carbonate	Hydrocarbons
Upper Avalon	5,045	5,120	Carbonate	Hydrocarbons
Middle Avalon	5,350	5,428	Carbonate	Hydrocarbons
1st BS Sand	5,840	5,919	Sandstone	Hydrocarbons
2nd BS Carb	6,050	6,129	Carbonate	Hydrocarbons
2nd BS Sand	6,415	6,598	Sandstone	Hydrocarbons
КОР	5,955	6,034	Sandstone	Hydrocarbons
TD	6,735	16,751	Sandstone	Hydrocarbons

2. Notable Zones

2nd BS Sand is the formation target.

3. Pressure Control

Pressure Control Equipment (See Schematics):

At 16,751', 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.



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	Dr	illed Interv	/al	Casing	Standard Tapered			Casing Set	Depths				Casing Details				
Section	Hole Size	Тор	Btm	Size	Standard		Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension	
Surface	17 1/2	0	250	13 3/8	API	No	0	250	0	250	J-55	54.5	BUTT	1.13	1.15	1.6	
Intermediate	12 1/4	250	1,495	9 5/8	API	No	0	1,495	0	1,495	J-55	40	BUTT	1.13	1.15	1.6	
Production	8 3/4	1,495	6,034	5 1/2	NON API	No	0	6,034	0	5,955	P-110	20	TXP	1.13	1.15	1.6	
Production	7 7/8	6,034	16,751	5 1/2	NON API	No	6,034	16,751	5,955	6,735	P-110	20	TXP	1.13	1.15	1.6	

Cement Volumes:

Name	Type	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	261	1.33	347	14.8	100%	С	5% NCI + LCM
Intermediate	Lead	0	185	2.7	499	11.0	75%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
Intermediate	Tail	995	153	1.33	204	14.8	30%	С	5% NaCl + LCM
Production	Lead	1295	426	3.35	1428	10.5	20%	С	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	6034	1949	1.63	3176	13.2	20%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

Mud Design:

Name	Тор	Bottom	Type	Mud Weight	Visc	Fluid Loss
Surface	0	250	FW Spud Mud	8.40	27-30	NC
Intermediate	250	1,495	Brine Water	10.00	27-30	NC
Production	1,495	16,751	FW/Cut Brine	9.00	27-30	NC



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.

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. <u>Down Hole Conditions</u>

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 3,152 psi. Expected bottom hole temperature is \approx 145° F.

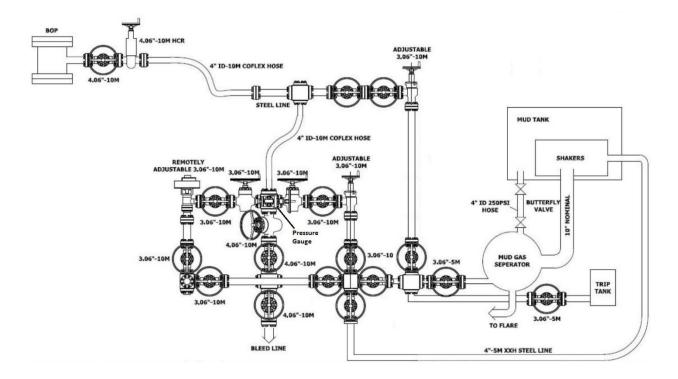
Tap Rock does not anticipate that there will be enough H2S from the surface to the 2nd BS Sand formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety 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.

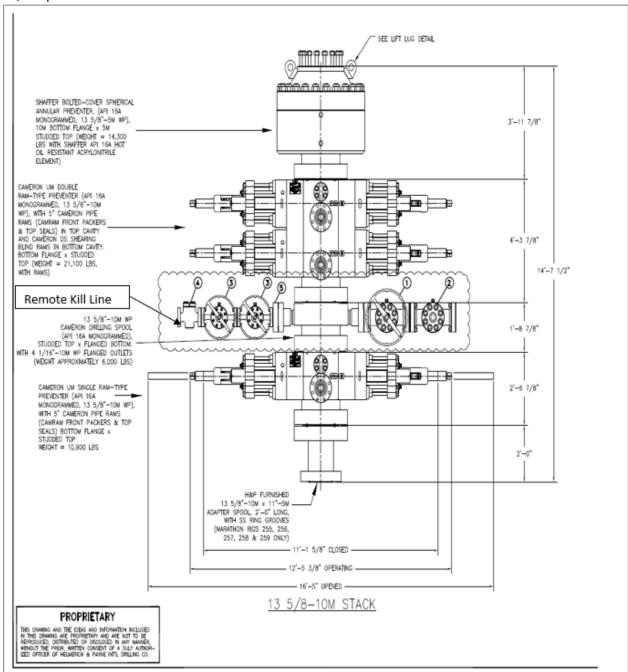


10M Choke Layout

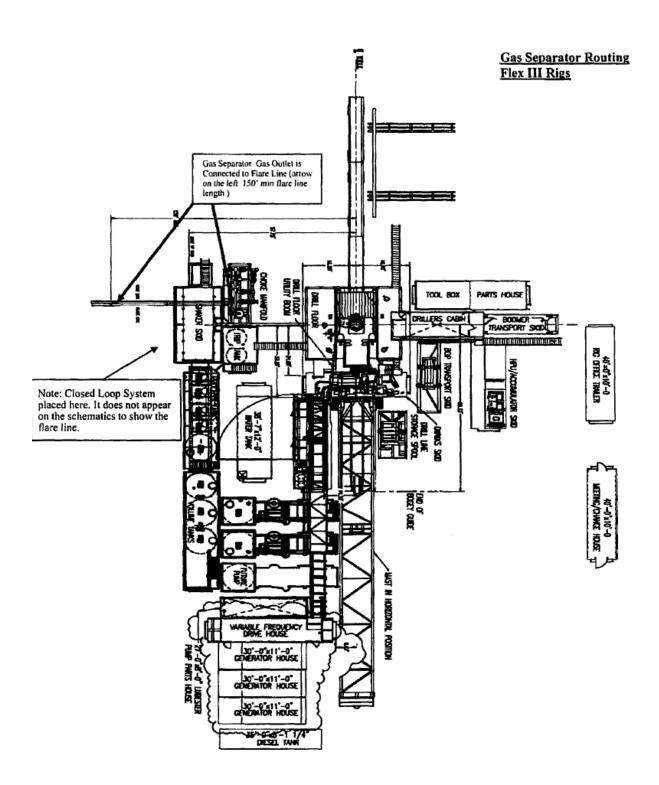




10,000 psi BOP Stack

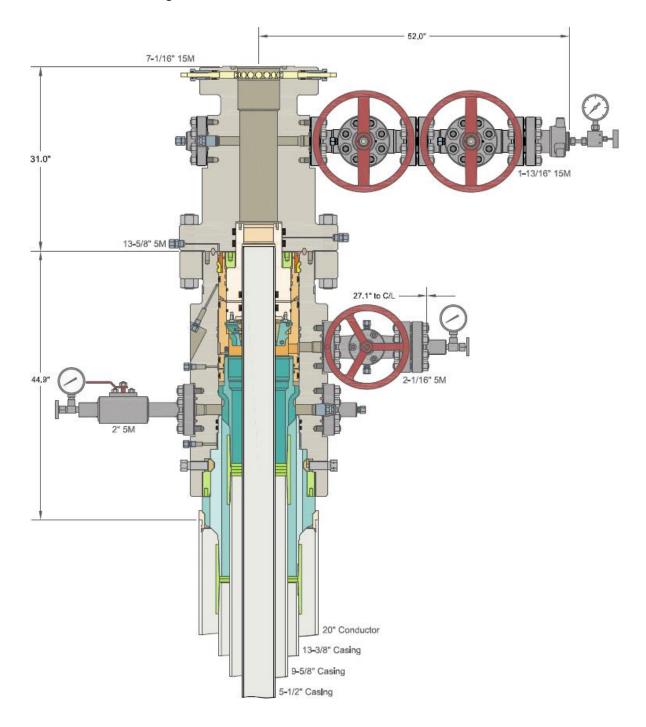








Multi-bowl Wellhead Design



Tap Rock Resources, LLC

Eddy County, NM (NAD 83 NME) Sec-11-25S-25E(High Life S) High Life Fed Com #124H

Wellbore #1

Plan: Plan 1

Standard Planning Report

11 May, 2023

EDM 5000.1 Single User Db Database: Company: Tap Rock Resources, LLC Project: Eddy County, NM (NAD 83 NME) Sec-11-25S-25E(High Life S) Site: Well: High Life Fed Com #124H

Wellbore #1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: **Survey Calculation Method:** Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft

Minimum Curvature

Plan 1 Project Eddy County, NM (NAD 83 NME)

US State Plane 1983 Map System: North American Datum 1983 Geo Datum: New Mexico Eastern Zone Map Zone:

Wellbore:

Design:

System Datum:

Mean Sea Level

Sec-11-25S-25E(High Life S) Site

Northing: 415,230.00 usft 32.1415394 Site Position: Latitude: From: Мар Easting: 528,744.00 usft Longitude: -104.3740217 13-3/16 "

Position Uncertainty: 0.00 usft Slot Radius:

Well High Life Fed Com #124H 0.00 usft 415.206.00 usft 32.1414735 **Well Position** +N/-S Northing: Latitude: 0.00 usft 528,769.00 usft -104.3739409 +E/-W Easting: Longitude: **Position Uncertainty** 0.50 usft Wellhead Elevation: usft Ground Level: 3,489.00 usft

Grid Convergence: -0.02 °

Wellbore #1 Wellbore Declination Magnetics **Model Name** Sample Date Dip Angle Field Strength (°) (°) (nT) HDGM2023 47,345.10000000 5/8/2023 7.00 59.60

Design Plan 1 **Audit Notes:** PLAN Tie On Depth: 0.00 Version: Phase: Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 89.65 0.00 0.00 0.00

5/11/2023 **Plan Survey Tool Program** Date **Depth From** Depth To (usft) (usft) Survey (Wellbore) **Tool Name** Remarks 0.00 16,751.26 Plan 1 (Wellbore #1) MWD+HRGM

OWSG MWD + HRGM

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	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,240.26	12.40	191.31	2,230.59	-131.12	-26.22	1.00	1.00	0.00	191.31	
4,793.66	12.40	191.31	4,724.41	-668.88	-133.78	0.00	0.00	0.00	0.00	
6,033.92	0.00	360.00	5,955.00	-800.00	-160.00	1.00	-1.00	0.00	180.00	
6,838.46	88.50	99.65	6,475.69	-885.03	340.06	11.00	11.00	0.00	99.65	
7,338.29	88.50	89.65	6,488.81	-925.48	837.44	2.00	0.00	-2.00	-90.13	
16,751.26	88.50	89.65	6,735.29	-868.00	10,247.00	0.00	0.00	0.00	0.00	

Database: EDM 5000.1 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: Sec-11-25S-25E(High Life S)
Well: High Life Fed Com #124H

Wellbore: Wellbore #1
Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft Grid

Minimum Curvature

ed 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 40.00	0.00 0.00	0.00 0.00	0.00 40.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
Rustler Anh	ydrite								
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
340.00	0.00	0.00	340.00	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
Build	1.00	191.31	1,099.99	0.96	0.47	0.40	4.00	1.00	0.00
1,100.00 1.200.00	1.00 2.00	191.31 191.31	1,099.99	-0.86 -3.42	-0.17 -0.68	-0.18 -0.71	1.00 1.00	1.00 1.00	0.00
,									
1,240.07	2.40	191.31	1,240.00	-4.93	-0.99	-1.02	1.00	1.00	0.00
Base Salt	0.00	101.01	4 000 00	7.70		4.50	4.00	4.00	
1,300.00	3.00	191.31	1,299.86 1,399.68	-7.70	-1.54 -2.74	-1.59 -2.82	1.00	1.00	0.00
1,400.00 1,435.42	4.00 4.35	191.31 191.31	1,435.00	-13.69 -16.22	-2.74	-2.62 -3.34	1.00 1.00	1.00 1.00	0.00 0.00
Delaware Mo		191.51	1,400.00	-10.22	-5.24	-0.04	1.00	1.00	0.00
1,445.45	4.45	191.31	1,445.00	-16.97	-3.39	-3.50	1.00	1.00	0.00
Lamar			,						
	5.00	191.31	1,499.37	-21.38	-4.28	-4.41	1.00	1.00	0.00
1,500.00 1,505.66	5.06	191.31	1,505.00	-21.36 -21.87	-4.20 -4.37	-4.41 -4.51	1.00	1.00	0.00
Bell Canyon		101.01	1,000.00	-21.07	-4.07	-4.01	1.00	1.00	0.00
1,545.83	5.46	191.31	1,545.00	-25.47	-5.09	-5.25	1.00	1.00	0.00
Ramsey Sar	nd		,						
1,600.00	6.00	191.31	1,598.90	-30.78	-6.16	-6.34	1.00	1.00	0.00
1,700.00	7.00	191.31	1,698.26	-41.88	-8.38	-8.63	1.00	1.00	0.00
1,800.00	8.00	191.31	1,797.40	-54.68	-10.94	-11.27	1.00	1.00	0.00
1,900.00	9.00	191.31	1,896.30	-69.17	-13.83	-14.26	1.00	1.00	0.00
2,000.00	10.00	191.31	1,994.93	-85.35	-17.07	-17.59	1.00	1.00	0.00
2,100.00	11.00	191.31	2,093.26	-103.22	-20.64	-21.28	1.00	1.00	0.00
2,200.00	12.00	191.31	2,191.25	-122.77	-24.55	-25.30	1.00	1.00	0.00
2,240.26	12.40	191.31	2,230.59	-131.12	-26.22	-27.02	1.00	1.00	0.00
Hold									
2,300.00	12.40	191.31	2,288.94	-143.70	-28.74	-29.62	0.00	0.00	0.00
2,388.11	12.40	191.31	2,375.00	-162.26	-32.45	-33.44	0.00	0.00	0.00
Cherry Cany									
2,400.00	12.40	191.31	2,386.61	-164.76	-32.95	-33.96	0.00	0.00	0.00
2,500.00	12.40	191.31	2,484.28	-185.82	-37.16	-38.30	0.00	0.00	0.00
2,600.00	12.40	191.31	2,581.94	-206.88	-41.38	-42.64	0.00	0.00	0.00
2,700.00	12.40	191.31	2,679.61	-227.94	-45.59	-46.98	0.00	0.00	0.00
2,800.00	12.40	191.31	2,777.27	-249.00	-49.80	-51.32	0.00	0.00	0.00
2,900.00	12.40	191.31	2,874.94	-270.06 201.12	-54.01	-55.66 60.00	0.00	0.00	0.00
3,000.00	12.40	191.31	2,972.61	-291.12	-58.22	-60.00	0.00	0.00	0.00
3,100.00	12.40	191.31	3,070.27	-312.19	-62.44	-64.34	0.00	0.00	0.00
3,200.00	12.40 12.40	191.31 191.31	3,167.94 3,265.61	-333.25 -354.31	-66.65 -70.86	-68.68 -73.02	0.00 0.00	0.00 0.00	0.00 0.00

Database: EDM 5000.1 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: Sec-11-25S-25E(High Life S)
Well: High Life Fed Com #124H

Wellbore: Wellbore #1

Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft Grid Minimum Curvature

า:	Plan 1								
ed 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)
3,330.10	12.40	191.31	3,295.00	-360.65	-72.13	-74.33	0.00	0.00	0.00
Brushy Car	nyon								
3,400.00	12.40	191.31	3,363.27	-375.37	-75.07	-77.37	0.00	0.00	0.00
3,500.00	12.40	191.31	3,460.94	-396.43	-79.29	-81.71	0.00	0.00	0.00
3,600.00	12.40	191.31	3,558.60	-417.49	-83.50	-86.05	0.00	0.00	0.00
3,700.00	12.40	191.31	3,656.27	-438.55	-87.71	-90.39	0.00	0.00	0.00
3,800.00	12.40	191.31	3,753.94	-459.61	-91.92	-94.73	0.00	0.00	0.00
3,900.00	12.40	191.31	3,851.60	-480.67	-96.13	-99.07	0.00	0.00	0.00
4,000.00	12.40	191.31	3,949.27	-501.73	-100.35	-103.41	0.00	0.00	0.00
4,100.00	12.40	191.31	4,046.94	-522.79	-104.56	-107.75	0.00	0.00	0.00
4,200.00	12.40	191.31	4,144.60	-543.85	-108.77	-112.09	0.00	0.00	0.00
4,300.00	12.40	191.31	4,242.27	-564.91	-112.98	-116.43	0.00	0.00	0.00
4,400.00	12.40	191.31	4,339.93	-585.98	-117.20	-120.77	0.00	0.00	0.00
4,500.00	12.40	191.31	4,437.60	-607.04	-121.41	-125.11	0.00	0.00	0.00
4,600.00	12.40	191.31	4,535.27	-607.0 4 -628.10	-121.41	-125.11	0.00	0.00	0.00
4,700.00	12.40	191.31	4,632.93	-649.16	-129.83	-129.45	0.00	0.00	0.00
4,793.66	12.40	191.31	4,724.41	-668.88	-123.78	-133.79	0.00	0.00	0.00
	12.40	101.01	7,727.71	-000.00	-100.70	-107.00	0.00	0.00	0.00
Drop 4.800.00	12.34	191.31	4,730.60	-670.22	-134.04	-138.13	1.00	-1.00	0.00
4,000.00	12.34	191.51	4,730.00	-070.22	-134.04	-130.13	1.00	-1.00	0.00
4,900.00	11.34	191.31	4,828.47	-690.33	-138.07	-142.28	1.00	-1.00	0.00
5,000.00	10.34	191.31	4,926.69	-708.77	-141.75	-146.08	1.00	-1.00	0.00
5,059.22	9.75	191.31	4,985.00	-718.90	-143.78	-148.17	1.00	-1.00	0.00
Bone Sprin	g Lime								
5,100.00	9.34	191.31	5,025.21	-725.53	-145.11	-149.54	1.00	-1.00	0.00
5,120.05	9.14	191.31	5,045.00	-728.69	-145.74	-150.19	1.00	-1.00	0.00
Bone Sprin	g Base								
5,200.00	8.34	191.31	5,124.03	-740.60	-148.12	-152.64	1.00	-1.00	0.00
5,300.00	7.34	191.31	5,124.03	-740.00 -753.97	-140.12	-152.04	1.00	-1.00	0.00
5,400.00	6.34	191.31	5,322.38	-765.65	-153.13	-155.40	1.00	-1.00	0.00
5,427.79	6.06	191.31	5,350.00	-768.59	-153.72	-157.60	1.00	-1.00	0.00
		131.31	3,330.00	-700.55	-100.72	-130.41	1.00	-1.00	0.00
Avalon Mid 5,500.00	5.34	191.31	5,421.86	-775.62	-155.12	-159.86	1.00	-1.00	0.00
	4.24	404.04		702.00			4.00		0.00
5,600.00	4.34	191.31	5,521.50	-783.90	-156.78	-161.56 -162.92	1.00	-1.00 1.00	0.00
5,700.00	3.34	191.31	5,621.27	-790.46	-158.09	-162.92 -163.92	1.00	-1.00 1.00	0.00
5,800.00 5,900.00	2.34 1.34	191.31 191.31	5,721.15 5,821.10	-795.32 -798.47	-159.06 -159.69	-163.92 -164.57	1.00 1.00	-1.00 -1.00	0.00 0.00
5,900.00	1.34	191.31	5,840.00	-798.87	-159.69	-164.57 -164.65	1.00	-1.00 -1.00	0.00
		181.01	3,040.00	-1 30.01	-138.17	-104.03	1.00	-1.00	0.00
1st Bone S	pring sand								
6,000.00	0.34	191.31	5,921.08	-799.90	-159.98	-164.86	1.00	-1.00	0.00
6,033.92	0.00	360.00	5,955.00	-800.00	-160.00	-164.88	1.00	-1.00	0.00
Curve KOP									
6,050.00	1.77	99.65	5,971.08	-800.04	-159.76	-164.64	11.00	11.00	0.00
6,100.00	7.27	99.65	6,020.91	-800.70	-155.87	-160.76	11.00	11.00	0.00
6,129.45	10.51	99.65	6,050.00	-801.46	-151.39	-156.28	11.00	11.00	0.00
2nd Bone S	Spring Carb FS								
6 150 00	40.77	00.65	6.070.42	900.46	147.20	150.00	11 00	11.00	0.00
6,150.00	12.77 18.27	99.65	6,070.13 6,118.28	-802.16	-147.30	-152.20 -139.03	11.00	11.00	0.00
6,200.00 6,250.00	23.77	99.65 99.65	6,164.94	-804.40 -807.41	-134.12 -116.44	-139.03	11.00 11.00	11.00 11.00	0.00 0.00
6,300.00	23.77 29.27	99.65 99.65	6,164.94	-807.41 -811.15	-116.44 -94.44	-121.37 -99.40	11.00	11.00	0.00
6,350.00	29.27 34.77	99.65	6,252.04	-815.59	-94.44 -68.32	-99.40 -73.30	11.00	11.00	0.00
6,400.00	40.27	99.65	6,291.68	-820.69	-38.31	-43.32	11.00	11.00	0.00
	Life Fed Com #22								
6,450.00	45.77	99.65	6,328.22	-826.41	-4.69	-9.74	11.00	11.00	0.00

Database: EDM 5000.1 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: Sec-11-25S-25E(High Life S)
Well: High Life Fed Com #124H

Wellbore: Wellbore #1

Design: Plan 1

Local Co-ordinate Reference:
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft Grid Minimum Curvature

ned 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)
6,500.00 6,550.00	51.27 56.77	99.65 99.65	6,361.33 6,390.69	-832.68 -839.46	32.22 72.10	27.14 66.97	11.00 11.00	11.00 11.00	0.00 0.00
6,597.76 2nd Bone S	62.02 Spring Sand	99.65	6,415.00	-846.35	112.61	107.44	11.00	11.00	0.00
6,600.00	62.27	99.65	6,416.05	-846.68	114.56	109.39	11.00	11.00	0.00
6,650.00	67.77	99.65	6,437.15	-854.28	159.22	154.00	11.00	11.00	0.00
6,700.00	73.27	99.65	6,453.82	-862.18	205.68	200.41	11.00	11.00	0.00
6,750.00	78.77	99.65	6,465.90	-870.31	253.49	248.17	11.00	11.00	0.00
6,800.00	84.27	99.65	6,473.27	-878.59	302.23	296.85	11.00	11.00	0.00
6,838.46	88.50	99.65	6,475.69	-885.03	340.06	334.65	11.00	11.00	0.00
LP. Turn to									
6,900.00	88.50	98.42	6,477.30	-894.69	400.81	395.34	2.00	0.00	-2.00
7,000.00 7,100.00	88.49 88.49	96.42 94.42	6,479.93 6,482.56	-907.59 -917.03	499.94 599.45	494.38 593.84	2.00 2.00	0.00 0.00	-2.00 -2.00
7,100.00	88.50	92.42	6,485.18	-917.03 -922.99	699.23	693.58	2.00	0.00	-2.00 -2.00
		90.42	6.487.81	-925.46		793.49	2.00		-2.00
7,300.00 7,338.29	88.50 88.50	90.42 89.65	6,488.81	-925.46 -925.48	799.16 837.44	831.77	2.00	0.00 0.00	-2.00 -2.00
Slot, Hold			2,122121						
7,400.00	88.50	89.65	6,490.43	-925.11	899.13	893.46	0.00	0.00	0.00
7,500.00	88.50	89.65	6,493.05	-924.50	999.09	993.42	0.00	0.00	0.00
7,600.00	88.50	89.65	6,495.66	-923.88	1,099.05	1,093.39	0.00	0.00	0.00
7,700.00	88.50	89.65	6,498.28	-923.27	1,199.02	1,193.36	0.00	0.00	0.00
7,800.00	88.50	89.65	6,500.90	-922.66	1,298.98	1,293.32	0.00	0.00	0.00
7,900.00	88.50	89.65	6,503.52	-922.05	1,398.95	1,393.29	0.00	0.00	0.00
8,000.00	88.50	89.65	6,506.14	-921.44	1,498.91	1,493.25	0.00	0.00	0.00
8,100.00	88.50	89.65	6,508.76	-920.83	1,598.87	1,593.22	0.00	0.00	0.00
8,200.00	88.50	89.65	6,511.38	-920.22	1,698.84	1,693.18	0.00	0.00	0.00
8,300.00	88.50	89.65	6,513.99	-919.61	1,798.80	1,793.15	0.00	0.00	0.00
8,400.00 8,500.00	88.50 88.50	89.65 89.65	6,516.61 6,519.23	-919.00 -918.39	1,898.76 1,998.73	1,893.12 1,993.08	0.00 0.00	0.00 0.00	0.00 0.00
8,600.00	88.50	89.65	6,521.85	-917.78	2,098.69	2,093.05	0.00	0.00	0.00
8,700.00 8,800.00	88.50 88.50	89.65 89.65	6,524.47 6,527.09	-917.17 -916.56	2,198.66 2,298.62	2,193.01 2,292.98	0.00 0.00	0.00 0.00	0.00 0.00
8.900.00	88.50	89.65	6,529.71	-915.95	2,398.58	2,392.94	0.00	0.00	0.00
9,000.00	88.50	89.65	6,532.32	-915.33	2,498.55	2,492.91	0.00	0.00	0.00
9,100.00	88.50	89.65	6,534.94	-914.72	2,598.51	2,592.88	0.00	0.00	0.00
9,200.00	88.50	89.65	6,537.56	-914.11	2,698.48	2,692.84	0.00	0.00	0.00
9,300.00	88.50	89.65	6,540.18	-913.50	2,798.44	2,792.81	0.00	0.00	0.00
9,400.00	88.50	89.65	6,542.80	-912.89	2,898.40	2,892.77	0.00	0.00	0.00
9,500.00	88.50	89.65	6,545.42	-912.28	2,998.37	2,992.74	0.00	0.00	0.00
9,600.00	88.50	89.65	6,548.03	-911.67	3,098.33	3,092.70	0.00	0.00	0.00
9,700.00	88.50	89.65	6,550.65	-911.06	3,198.29	3,192.67	0.00	0.00	0.00
9,800.00	88.50	89.65	6,553.27	-910.45	3,298.26	3,292.64	0.00	0.00	0.00
9,900.00	88.50 88.50	89.65	6,555.89 6,558.51	-909.84	3,398.22 3,498.19	3,392.60	0.00	0.00	0.00
10,000.00 10,100.00	88.50 88.50	89.65 89.65	6,561.13	-909.23 -908.62	3,498.19	3,492.57 3,592.53	0.00 0.00	0.00 0.00	0.00 0.00
10,200.00 10,300.00	88.50 88.50	89.65 89.65	6,563.75 6,566.36	-908.01 -907.40	3,698.11 3,798.08	3,692.50 3,792.46	0.00 0.00	0.00 0.00	0.00 0.00
10,400.00	88.50	89.65	6,568.98	-907.40 -906.79	3,898.04	3,892.43	0.00	0.00	0.00
10,500.00	88.50	89.65	6,571.60	-906.17	3,998.01	3,992.40	0.00	0.00	0.00
10,600.00	88.50	89.65	6,574.22	-905.56	4,097.97	4,092.36	0.00	0.00	0.00
10,700.00	88.50	89.65	6,576.84	-904.95	4,197.93	4,192.33	0.00	0.00	0.00
10,800.00	88.50	89.65	6,579.46	-904.34	4,297.90	4,292.29	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Tap Rock Resources, LLC
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Site: Sec-11-25S-25E(High Life S)
Well: High Life Fed Com #124H

Wellbore: Wellbore #1

Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference:

North Reference: Survey Calculation Method: Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft

Minimum Curvature

lanned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,900.0		89.65	6,582.08	-903.73	4,397.86	4,392.26	0.00	0.00	0.00
11,000.0		89.65	6,584.69	-903.12	4,497.82	4,492.22	0.00	0.00	0.00
11,100.0	0 88.50	89.65	6,587.31	-902.51	4,597.79	4,592.19	0.00	0.00	0.00
11,200.0	0 88.50	89.65	6,589.93	-901.90	4,697.75	4,692.16	0.00	0.00	0.00
11,300.0		89.65	6,592.55	-901.29	4,797.72	4,792.12	0.00	0.00	0.00
11,400.0		89.65	6,595.17	-900.68	4,897.68	4,892.09	0.00	0.00	0.00
11,500.0		89.65	6,597.79	-900.07	4,997.64	4,992.05	0.00	0.00	0.00
11,600.0	0 88.50	89.65	6,600.40	-899.46	5,097.61	5,092.02	0.00	0.00	0.00
11,700.0	0 88.50	89.65	6,603.02	-898.85	5,197.57	5,191.98	0.00	0.00	0.00
11,800.0		89.65	6,605.64	-898.24	5,297.54	5,291.95	0.00	0.00	0.00
11,900.0		89.65	6,608.26	-897.63	5,397.50	5,391.92	0.00	0.00	0.00
12,000.0		89.65	6,610.88	-897.01	5,497.46	5,491.88	0.00	0.00	0.00
12,100.0	0 88.50	89.65	6,613.50	-896.40	5,597.43	5,591.85	0.00	0.00	0.00
12,200.0	0 88.50	89.65	6,616.12	-895.79	5,697.39	5,691.81	0.00	0.00	0.00
12,300.0	0 88.50	89.65	6,618.73	-895.18	5,797.35	5,791.78	0.00	0.00	0.00
12,400.0		89.65	6,621.35	-894.57	5,897.32	5,891.74	0.00	0.00	0.00
12,500.0		89.65	6,623.97	-893.96	5,997.28	5,991.71	0.00	0.00	0.00
12,600.0	0 88.50	89.65	6,626.59	-893.35	6,097.25	6,091.68	0.00	0.00	0.00
12,700.0	0 88.50	89.65	6,629.21	-892.74	6,197.21	6,191.64	0.00	0.00	0.00
12,800.0	0 88.50	89.65	6,631.83	-892.13	6,297.17	6,291.61	0.00	0.00	0.00
12,900.0	0 88.50	89.65	6,634.45	-891.52	6,397.14	6,391.57	0.00	0.00	0.00
13,000.0	0 88.50	89.65	6,637.06	-890.91	6,497.10	6,491.54	0.00	0.00	0.00
13,100.0	0 88.50	89.65	6,639.68	-890.30	6,597.07	6,591.50	0.00	0.00	0.00
13,200.0	0 88.50	89.65	6,642.30	-889.69	6,697.03	6,691.47	0.00	0.00	0.00
13,300.0		89.65	6,644.92	-889.08	6,796.99	6,791.44	0.00	0.00	0.00
13,400.0	0 88.50	89.65	6,647.54	-888.47	6,896.96	6,891.40	0.00	0.00	0.00
13,500.0	0 88.50	89.65	6,650.16	-887.85	6,996.92	6,991.37	0.00	0.00	0.00
13,600.0	0 88.50	89.65	6,652.77	-887.24	7,096.88	7,091.33	0.00	0.00	0.00
13,700.0	0 88.50	89.65	6,655.39	-886.63	7,196.85	7,191.30	0.00	0.00	0.00
13,800.0	0 88.50	89.65	6,658.01	-886.02	7,296.81	7,291.26	0.00	0.00	0.00
13,900.0	0 88.50	89.65	6,660.63	-885.41	7,396.78	7,391.23	0.00	0.00	0.00
14,000.0		89.65	6,663.25	-884.80	7,496.74	7,491.20	0.00	0.00	0.00
14,100.0	0 88.50	89.65	6,665.87	-884.19	7,596.70	7,591.16	0.00	0.00	0.00
14,200.0	0 88.50	89.65	6,668.49	-883.58	7,696.67	7,691.13	0.00	0.00	0.00
14,300.0		89.65	6,671.10	-882.97	7,796.63	7,791.09	0.00	0.00	0.00
14,400.0		89.65	6,673.72	-882.36	7,896.60	7,891.06	0.00	0.00	0.00
14,500.0		89.65	6,676.34	-881.75	7,996.56	7,991.02	0.00	0.00	0.00
14,600.0	0 88.50	89.65	6,678.96	-881.14	8,096.52	8,090.99	0.00	0.00	0.00
14,700.0	0 88.50	89.65	6,681.58	-880.53	8,196.49	8,190.96	0.00	0.00	0.00
14,800.0		89.65	6,684.20	-879.92	8,296.45	8,290.92	0.00	0.00	0.00
14,900.0		89.65	6,686.82	-879.31	8,396.41	8,390.89	0.00	0.00	0.00
15,000.0		89.65	6,689.43	-878.69	8,496.38	8,490.85	0.00	0.00	0.00
15,100.0	0 88.50	89.65	6,692.05	-878.08	8,596.34	8,590.82	0.00	0.00	0.00
15,200.0	0 88.50	89.65	6,694.67	-877.47	8,696.31	8,690.78	0.00	0.00	0.00
15,300.0	0 88.50	89.65	6,697.29	-876.86	8,796.27	8,790.75	0.00	0.00	0.00
15,400.0		89.65	6,699.91	-876.25	8,896.23	8,890.72	0.00	0.00	0.00
15,500.0		89.65	6,702.53	-875.64	8,996.20	8,990.68	0.00	0.00	0.00
15,594.4		89.65	6,705.00	-875.06	9,090.65	9,085.13	0.00	0.00	0.00
3rd Bone	Spring Break Sand	t							
15,600.0	0 88.50	89.65	6,705.14	-875.03	9,096.16	9,090.65	0.00	0.00	0.00
15,700.0		89.65	6,707.76	-874.42	9,196.13	9,190.61	0.00	0.00	0.00
15,800.0		89.65	6,710.38	-873.81	9,296.09	9,290.58	0.00	0.00	0.00
15,900.0		89.65	6,713.00	-873.20	9,396.05	9,390.54	0.00	0.00	0.00
16,000.0	0 88.50	89.65	6,715.62	-872.59	9,496.02	9,490.51	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: Sec-11-25S-25E(High Life S)
Well: High Life Fed Com #124H

Wellbore: Wellbore #1

Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft Grid Minimum Curvature

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)
16,100.00 16,200.00 16,300.00 16,400.00 16,500.00 16,605.20	88.50 88.50 88.50 88.50 88.50	89.65 89.65 89.65 89.65 89.65	6,718.24 6,720.86 6,723.47 6,726.09 6,728.71 6,731.33 6,732.80	-871.98 -871.37 -870.76 -870.15 -869.53 -868.92 -868.58	9,595.98 9,695.94 9,795.91 9,895.87 9,995.84 10,095.80 10,152.06	9,590.48 9,690.44 9,790.41 9,890.37 9,990.34 10,090.30 10,146.56	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00 0.00
16,700.0 16,751.2		89.65 89.65	6,733.95 6,735.29 #224H	-868.31 -868.00	10,195.76 10,247.00	10,190.27 10,241.51	0.00 0.00	0.00 0.00	0.00 0.00

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 Cor - plan misses targe - Point		0.00 '.16usft at 64	6,475.00 00.00usft MI	-934.00 O (6291.68 TV	-271.00 /D, -820.69 N,	414,272.00 -38.31 E)	528,498.00	32.1389057	-104.3748153
LTP - High Life Fed Cor - plan misses targe - Point		0.01 4usft at 1665	6,735.00 6.28usft MD	-869.00 (6732.80 TVI	10,152.00 D, -868.58 N, 1	414,337.00 10152.05 E)	538,921.00	32.1390909	-104.3411406
PBHL - High Life Fed Control - plan hits target centre - Rectangle (sides N	nter	0.01 518.00 D0.00	6,735.29	-868.00	10,247.00	414,338.00	539,016.00	32.1390937	-104.3408337

Formations							
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)	
	40.00	40.00	Rustler Anhydrite				
	340.00	340.00	Top Salt				
	1,240.07	1,240.00	Base Salt				
	1,435.42	1,435.00	Delaware Mountain Gp				
	1,445.45	1,445.00	Lamar				
	1,505.66	1,505.00	Bell Canyon				
	1,545.83	1,545.00	Ramsey Sand				
	2,388.11	2,375.00	Cherry Canyon				
	3,330.10	3,295.00	Brushy Canyon				
	5,059.22	4,985.00	Bone Spring Lime				
	5,120.05	5,045.00	Bone Spring Base				
	5,427.79	5,350.00	Avalon Middle Old				
	5,918.91	5,840.00	1st Bone Spring Sand				
	6,129.45	6,050.00	2nd Bone Spring Carb FS				
	6,597.76	6,415.00	2nd Bone Spring Sand				
	15,594.49	6,705.00	3rd Bone Spring Break Sand				

Database: EDM 5000.1 Single User Db
Company: Tap Rock Resources, LLC
Project: Eddy County, NM (NAD 83 NME)
Site: Sec-11-25S-25E(High Life S)
Well: High Life Fed Com #124H

Wellbore: Wellbore #1

Design: Plan 1

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well High Life Fed Com #124H GE 3489' + KB 26' @ 3515.00usft GE 3489' + KB 26' @ 3515.00usft Grid

Minimum Curvature

Plan Annotations	.				
ı	Measured	Vertical	Local Coor	dinates	
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment
	1,000.00	1,000.00	0.00	0.00	Build
	2,240.26	2,230.59	-131.12	-26.22	Hold
	4,793.66	4,724.41	-668.88	-133.78	Drop
	6,033.92	5,955.00	-800.00	-160.00	Curve KOP
	6,838.46	6,475.69	-885.03	340.06	LP. Turn to Slot
	7,338.29	6,488.81	-925.48	837.44	Slot, Hold
	16,751.26	6,735.29	-868.00	10,247.00	TD at 16751.25

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Tap Rock Operating LLC
WELL NAME & NO.: High Life Fed Com 124H
LOCATION: Sec 11-25S-25E-NMP
COUNTY: Eddy County, New Mexico

COA

H_2S	• No	O Yes		
Potash / WIPP	None	Secretary	C R-111-P	□ WIPP
Cave / Karst	C Low	Medium	C High	Critical
Wellhead	Conventional	• Multibowl	O Both	O 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

- 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 <u>Critical Cave/Karst Areas</u> 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.

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
- 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
 - o Green Flag Normal Safe Operation Condition
 - o 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

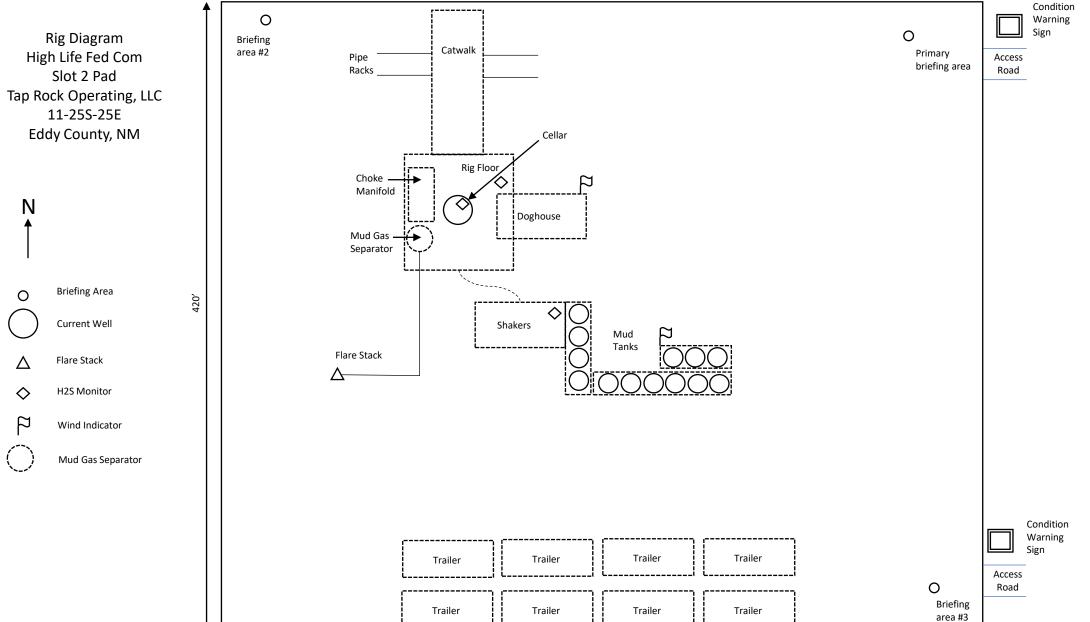
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

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				

Received by OCD: 11/28/2023 11:59:04 AM 460'



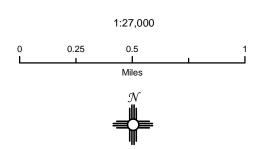


Tap Rock Operating LLC

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

Sec. 11, Township 25S, Range 25E Eddy County, New Mexico

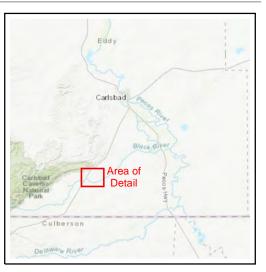
Well Pad Location



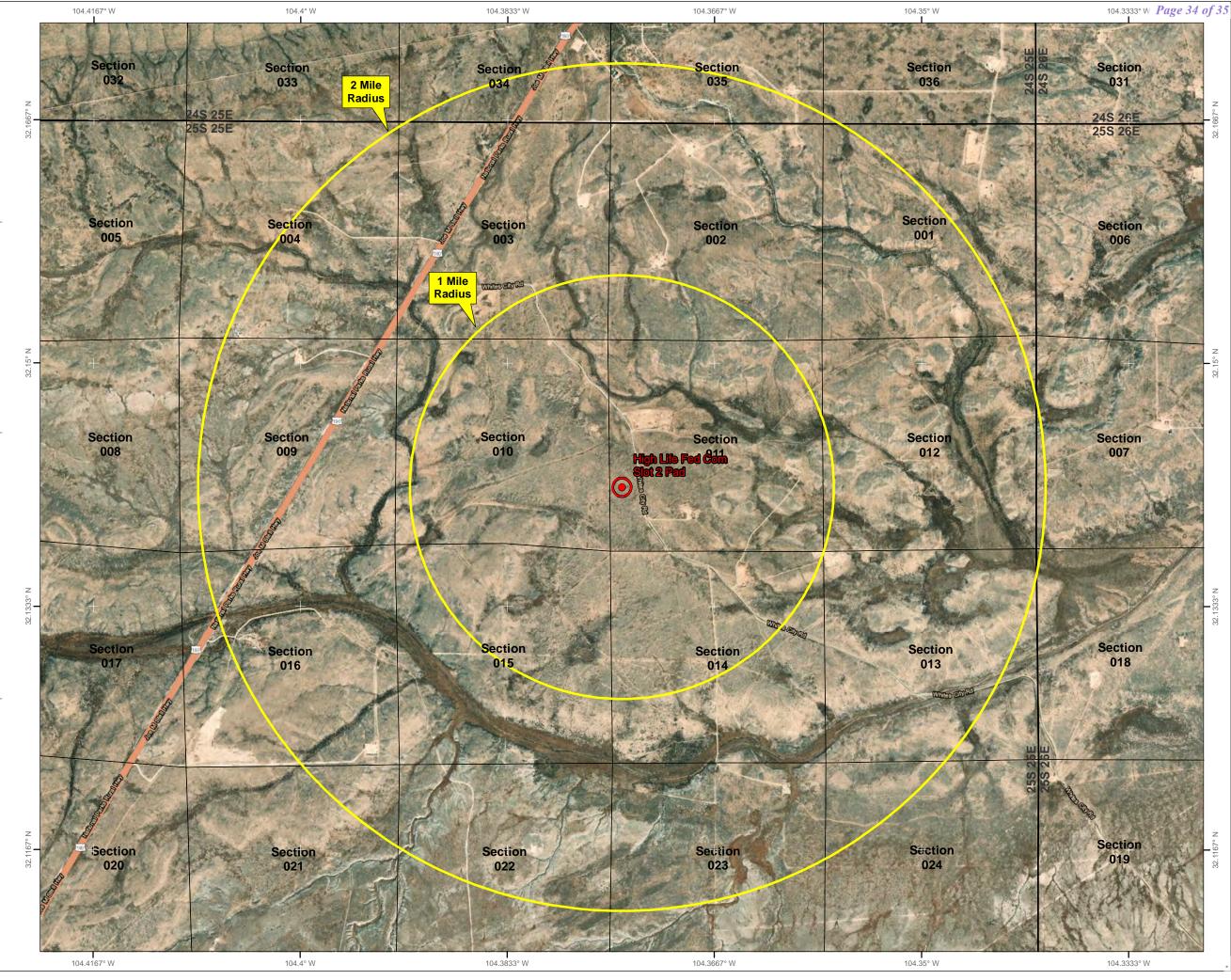
NAD 1983 New Mexico State Plane East FIPS 3001 Feet



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



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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

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 288934

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	288934
	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	
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	
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	
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	12/20/2023
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	12/20/2023
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	12/20/2023