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. NMNM104664 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 PBR FED COM 204H 2. Name of Operator 9. API Well No. TAP ROCK OPERATING LLC 30-015-57065 3a. Address 3b. Phone No. (include area code) 10. Field and Pool, or Exploratory PURPLE SAGE/(WOLFCAMP) GAS 1700 LINCOLN ST SUITE 4700, DENVER, CO 80203 (720) 460-3316 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 SEC 34/T25S/R25E/NMP At surface NWNE / 668 FNL / 1963 FEL / LAT 32.0915678 / LONG -104.3814666 At proposed prod. zone SESE / 5 FSL / 992 FEL / LAT 32.0499835 / LONG -104.3786632 14. Distance in miles and direction from nearest town or post office* 12. County or Parish 13 State **EDDY** NM 6 miles 15. Distance from proposed* 16. No of acres in lease 17. Spacing Unit dedicated to this well 668 feet location to nearest property or lease line, ft. 1920.0 (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, 25 feet 8177 feet / 24005 feet FED: NMB105800930 applied for, on this lease, ft. 21. Elevations (Show whether DF, KDB, RT, GL, etc.) 22. Approximate date work will start* 23. Estimated duration 3671 feet 08/15/2025 60 days 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 BRIAN WOOD / Ph: (720) 460-3316 (Electronic Submission) 02/24/2025 Title Permitting Agent Approved by (Signature) Name (Printed/Typed) Date (Electronic Submission) CODY LAYTON / Ph: (575) 234-5959 06/20/2025 Title Office Assistant Field Manager Lands & Minerals Carlsbad Field 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



(Continued on page 2)

*(Instructions on page 2)

<u>C-102</u>	CD: 0/21/1	2023 1.40.		State of New Mexico Revised July 9.						ed July 9, 2024
Submit Electronic			Energy, Minerals & Natural Resources Depa OIL CONSERVATION DIVISION						ı	
Via OCD Permitting OIL CONSERVATI					ION DIVIS	SION	Submittal	X Initial Submittal		
								Type:	Amended Report	
									As Drilled	
API Number		<u>v</u>	VELL LC	OCATIO:	N AND AC		EDICATION	N PLAT		
30)-015-57	7065	,	98220	FOOI N		LE SAGE;	WOLFCA		
	37485		Property Name		PBR F	ED COM				204H
OGRID No.	372043	3	Operator Name	TA	PROCK OP	ERATING, L	LC.		Ground Level Elev	ation 3671'
Surface Owner:	State Fee	Tribal X Federal				Mineral Owner:	State Fee Tribal	X Federal	-	
					Surface	Location				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
В	34	25-S	25-E	-	668' N	1963' E	N 32.0915	678 W 1	04.3814666	EDDY
		1	1	1	Bottom Ho	le Location		<u> </u>		
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
Р	10	26-S	25-E	-	5' S	992' E	N 32.04998	835 W 1	04.3786632	EDDY
				•	•			•		
Dedicated Acres		ning Well Defin		00.045	,	Overlapping Spacing Unit (Y/N) Consolidated Code				
1920	Inf	III	213H (30-015-	XXXXX)	N C				
Order Numbers		N/A				Well Setbacks are un	der Common Ownersh	ip: XYes N	o	
					Kick Off P	oint (KOP)				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitude		Longitude	County
Α	34	25-S	25-E	-	50' N	990' E	N 32.0933	308 W 1	04.3783455	EDDY
					First Take	Point (FTP)				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S		Latitude		Longitude	County
Α	34	25-S	25-E	-	330' N	991' E	N 32.0925	610 W 1	04.3783408	EDDY
			•		Last Take l	Point (LTP)				
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the N/S	Feet from the E/W	Latitude		Longitude	County
Р	10	26-S	25-E	-	330' S	991' E	N 32.0508	773 W 1	04.3786330	EDDY
Unitized Area or A	rea of Uniform I	ntrest		Spacing Unity	Type X Horizonta	al Vertical	Ground	Floor Elevation		
							•			
I hereby certi		formation con			complete to the	SURVEYORS CERTIFICATION I hereby certify that the well location shown on this Danage plotted from field notes of actual surveys made by me or under any supervision and that the same in the surveys when the same in the surveys were the same in th				
best of my knowledge and belief; and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory realing ender heretoffers extend by the division.						notes of actual surveys made by me or under any supervision and that the same is true and correct to the best of my belief of NME NME 24508				
pooling order heretofore entered by the division. If this well is a horizontal well, I further certify that this organization has received The consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.								A POOR	24508	
Cory	Walk			02-20-2	25		2/	10/2025 2:35:58	BONAL SURVENI	
Signature	Cory Wa	ılk	Date		 ,	Signature and Seal	of Professional Surveyo	or Dat	e	
Print Name	cory@pe	ermitswe	st.com			Certificate Number	Date of	of Survey 11/18/2024		
E-mail Address										

eceived by OCD: 6/21/2025 1:40:	54 PM		Page 3 o	
C-102 Submit Electronically	State of New Mexico Energy, Minerals & Natural Resources Department	Revised July 9, 2024		
Via OCD Permitting	OIL CONSERVATION DIVISION		✓ Initial Submittal	
		Submittal Type:	Amended Report	
		-71	As Drilled	
Property Name and Well Number	PBR FED COM 204H			
SURFACE LOCATION (SHL) NEW MEXICO EAST NAD 1983 X=526432 Y=397053 LAT.: N 32.0915678 LONG.: W 104.3814666	NAD27 NAD83 1160.0' KOP 28 27 Y=397648.03 Y=397704.33	- D27	AST TAKE POINT (LTP) NEW MEXICO EAST NAD 1983 X=527303 Y=382250 LAT.: N 32.0508773 LONG.: W 104.3786330	

=397710.39 !SHL → Y=397586.61 NAD 1927 NAD 1927 NAD83 AZ = 179.73° X=485249 Y=396996 X=486120 Y=382194 X=528387.79 X=523080.45 LAT.: N 32.0914496 Y=397766.74 LAT.: N 32.0507583 Y=397642.86 LONG.: W 104.3809660 LONG .: W 104.3781334 NAD27 668' FNL 1963' FEL 330' FSL 991' FEL NAD27 **NMNM** <=487229.46 X=481921 84 104664 Y=395070.46 **BOTTOM HOLE LOCATION (BHL)** Y=395026.42 NAD83 **KICK OFF POINT (KOP)** NAD83 **NEW MEXICO EAST** X=528412.30 X=523104.63 NEW MEXICO EAST Y=395126.77 NAD 1983 Y=395082.64 X=527293 Y=381925 NAD 1983 X=527398 Y=397693 LAT.: N 32.0499835 LONG.: W 104.3786632 LAT.: N 32.0933308 NAD 1927 LONG.: W 104.3783455 X=486110 Y=381869 NAD 1927 X=486216 Y=397637 LAT.: N 32.0498645 LONG.: W 104.3781637 LAT.: N 32.0932126 33 34 T-25-S, R-25-E 35 LONG.: W 104.3778448 5' FSL 992' FEL 3 4 T-26-S. R-25-E 50' FNL 990' FEL 2 NAD27 FIRST TAKE POINT (FTP) NAD27 X=481946.67 10202.7 . X=487254.52 Y=392467.90 **NEW MEXICO EAST** Y=392431.67 NAD83 NAD 1983 NAD83 X=523129.51 (= 179.73) X=527400 Y=397413 X=528437.40 Y=392524.09 Y=392487.95 LAT.: N 32.0925610 NMNM LONG .: W 104.3783408 108027 NAD27 NAD27 NAD 1927 X=481950.12 Y=389802.37 X=487254.32 X=486217 Y=397357 =389792 04 NAD83 LAT.: N 32.0924427 NAD83 X=523133.00 X=528437.24 LONG.: W 104.3778402 Y=389858.52 AREA Y=389848.28 330' FNL 991' FEL **BLM PERF. POINT (BPP1)** NEW MEXICO EAST NAD 1983 X=527423 Y=392495 LAT.: N 32.0790403 LONG.: W 104.3782594 3 990' NAD 1927 9 10 11 X=486240 Y=392439 NAD27 NAD27 LAT.: N 32.0789218 X=481954.10 X=487254.81 LONG.: W 104.3777592 Y=387140.87 Y=387157.81 NAD83 0' FNL 1014' FEL NAD83 X=523137.02 X=528437.78 = 181.67° **BLM PERF. POINT (BPP2)** Y=387196.98 Y=387214.01 SURVEYORS CERTIFICATION 140299 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 **NEW MEXICO EAST** NAD27 NAD 1983 NAD27 Ą X=481897.65 Y=384518.67 X=527448 Y=387211 Y=384475.51 11/18/2024 LAT.: N 32.0645144 Date of Survey Signature and Seal of Professional Surveyor NAD83 LONG.: W 104.3781721 X=523080.61 X=528361.21 Y=384531.59 Y=384574.83 NAD 1927 X=486265 Y=387155 NAD27 LAT.: N 32.0643957 NAD27 X=481840.56 X=487102.58 LONG.: W 104.3776722 Y=381812.51 Y=381875.71 NAD83 NAD83

 $AZ = 181.67^{\circ}$

325.3'

15 NAD27 NAD83

X=484471.80 X=525654.83 Y=381844.26 Y=381900.34 X=528285.63

/Y=381931.83

/11

-991

111111

0' FNL 990' FEL

Released to Imaging: 7/26/2025 9:14:59 AM

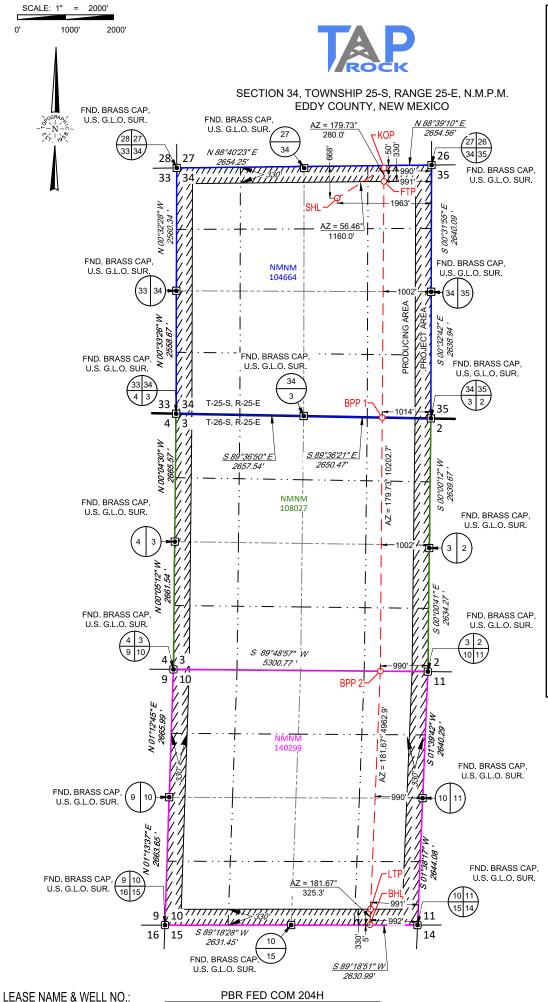
X=523023.57

Y=381868.55

9

16 15

same is true and correct to the best of my belief.



SURFACE LOCATION (SHL)

NEW MEXICO EAST NAD 1983 X=526432 Y=397053 LAT.: N 32.0915678 LONG.: W 104.3814666 668' FNL 1963' FEL

KICK OFF POINT (KOP)

NEW MEXICO EAST NAD 1983 X=527398 Y=397693 LAT.: N 32.0933308 LONG.: W 104.3783455 50' FNL 990' FEL

FIRST TAKE POINT (FTP)

NEW MEXICO EAST NAD 1983 X=527400 Y=397413 LAT.: N 32.0925610 LONG.: W 104.3783408 330' FNL 991' FEL

BLM PERF. POINT (BPP1)

NEW MEXICO EAST NAD 1983 X=527423 Y=392495 LAT.: N 32.0790403 LONG.: W 104.3782594 0' FNL 1014' FEL

BLM PERF. POINT (BPP2)

NEW MEXICO EAST NAD 1983 X=527448 Y=387211 LAT.: N 32.0645144 LONG.: W 104.3781721 0' FNL 990' FEL

LAST TAKE POINT (LTP)

NEW MEXICO EAST NAD 1983 X=527303 Y=382250 LAT.: N 32.0508773 LONG.: W 104.3786330 330' FSL 991' FEL

BOTTOM HOLE LOCATION (BHL) NEW MEXICO EAST

NAD 1983 X=527293 Y=381925 LAT.: N 32.0499835 LONG.: W 104.3786632 5' FSL 992' FEL

SECTION _ 34 _ TWP_ RGE_ 25-E SURVEY N.M.P.M. **EDDY** COUNTY STATE NM 668' FNL & 1963' FEL DESCRIPTION

DISTANCE & DIRECTION

FROM INT. OF BLACK RIVER VILLAGE RD., & US-180 W/US-62 W, GO SOUTHWEST ON US-180 W/US-62 W ±6.7 MILES, THENCE SOUTHEAST (LEFT) ON COUNTY RD. 724 ±5.5 MILES, THENCE SOUTH (RIGHT) ON WHITES CITY RD. ±1.3 MILES, THENCE WEST (RIGHT) ON AN EXISTING LEASE RD ±4.2 MILES, THENCE WEST (RIGHT) ON A PROPOSED LEASE RD ±1917 FEET TO A POINT ±385 FEET SOUTHEAST OF THE LOCATION.

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

THIS EASEMENT/SERVITUDE LOCATION SHOWN HEREON HAS BEEN SURVEYED ON THE GROUND UNDER MY SUPERVISION AND PREPARED ACCORDING TO THE EVIDENCE FOUND AT THE TIME OF SURVEY, AND DATA PROVIDED BY TAP ROCK OPERATING, LLC THIS CERTIFICATION IS MADE AND LIMITED TO THOSE PERSONS OR ENTITIES SHOWN ON THE FACE OF THIS PLAT AND IS NON-TRANSFERABLE. THIS SURVEY IS CERTIFIED FOR THIS TRANSFERABLE.

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

TENS DOMING 2/10/2025 2:35:59 PM

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



481 WINSCOTT ROAD, Ste. 200 • BENBROOK, TEXAS 76126

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 LL	.C OGRID:	372043	Date:	_2/20/2025		
II. Type: \square Original \square Amendment due to \square 19.15.27.9.D(6)(a) NMAC \square 19.15.27.9.D(6)(b) NMAC \square 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 BBL/D		
PBR Fed Com 202H		B, 34, 25S, 25E	642 FNL, 1987 FEL	1251	4759	6962		
PBR Fed Com 204H		B, 34, 25S, 25E	668 FNL, 1963 FEL	1251	4759	6962		
PBR Fed Com 211H		B, 34, 25S, 25E	667 FNL, 1988 FEL	1251	4759	6962		
PBR Fed Com 213H		B, 34, 25S, 25E	643 FNL, 1962 FEL	1251	4759	6962		
IV. Central Delivery Point Name: PBR 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.								

proposed to be recompleted from a single wen pad of connected to a central derivery point.								
Well Name	API	Spud Date	TD Reached	Completion	Initial Flow	First Production		
			Date	Commencement Date	Back Date	Date		

	Space 2 and	Date	Commencement Date	Back Date	Date
PBR Fed Com 202H	9/1/2025	11/20/2025	12/1/2025	1/15/2026	1/15/2026
PBR Fed Com 204H	9/1/2025	11/20/2025	12/1/2025	1/15/2026	1/15/2026
PBR Fed Com 211H	9/1/2025	11/20/2025	12/1/2025	1/15/2026	1/15/2026
PBR Fed Com 213H	9/1/2025	11/20/2025	12/1/2025	1/15/2026	1/15/2026

- VI. Separation Equipment: ⊠ Attach a complete description of how Operator will size separation equipment to optimize gas capture.
- 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 <u>EFFECTIVE APRIL 1, 2022</u>

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	Available Maximum Daily Capacity
			Start Date	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 \square will \square will not have capacity to gather 100% of the ant	icipated natural gas
production volume from the well prior to the date of first production.	

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

П	Attach O	nerator's	nlan to	manage	production	in res	nonse to	the	increased	line	pressure
-	1 Ittacii O	perator s	pian io	manage	production	111 1 C3	ponse te	, uic	mercasea	11110	prossure

XIV. Confidentiality: □ Operator asserts confidentiality pursuant to Sec	ction 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 NMA	C, and attaches a full description of the specific information
for which confidentiality is asserted and the basis for such assertion.	

(i)

Section 3 - Certifications <u>Effective May 25, 2021</u>

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; reinjection for underground storage; (e) **(f)** reinjection for temporary storage; (g) reinjection for enhanced oil recovery; fuel cell production; and (h)

Section 4 - Notices

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

other alternative beneficial uses approved by the division.

- (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: BR
Printed Name: Bill Ramsey
Title: Sr. Environmental and Regulatory Specialist
E-mail Address: <u>brmasey@taprk.com</u>
Date: 2/20/2025
Phone: 720-238-2787
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Title:
Approval Date:
Conditions of Approval:



Tap Rock Operating Natural Gas Management Plan

VI. Separation Equipment:

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:

- 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 emergencies as mentioned in the BLM Waste Prevention Rule.



• 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:

• 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.



APD ID: 10400103799

Well Name: PBR FED COM

U.S. Department of the Interior BUREAU OF LAND MANAGEMENT

Drilling Plan Data Report

Submission Date: 02/24/2025

Operator Name: TAP ROCK OPERATING LLC

Well Number: 204H

Well Type: CONVENTIONAL GAS WELL

Well Work Type: Drill

Highlighted data reflects the most recent changes

Show Final Text

Section 1 - Geologic Formations

Formation			True Vertical			Mineral Resources	Producing
ID	Formation Name	Elevation		Depth	Lithologies		Formatio
15894487	QUATERNARY	3671	0	0	OTHER : None	NONE	N
15894488	RUSTLER ANHYDRITE	3664	7	7	ANHYDRITE	NONE	N
15894489	TOP OF SALT	3306	365	365	SALT	OTHER : Salt	N
15894490	BASE OF SALT	2258	1413	1417	SALT	OTHER : Salt	N
15894491	DELAWARE	2064	1607	1614	SANDSTONE	NONE	N
15894492	LAMAR	2056	1615	1622	SANDSTONE	NATURAL GAS, OIL	N
15894493	BELL CANYON	2019	1652	1660	SANDSTONE	NATURAL GAS, OIL	N
15894494	RAMSEY SAND	1970	1701	1710	SANDSTONE	NATURAL GAS, OIL	N
15894495	CHERRY CANYON	1126	2545	2568	LIMESTONE	NATURAL GAS, OIL	N
15894496	BRUSHY CANYON	125	3546	3587	SANDSTONE	NATURAL GAS, OIL	N
15894497	BONE SPRING LIME	-1502	5173	5243	OTHER : Carbonate	NATURAL GAS, OIL	N
15894498	AVALON SAND	-1601	5272	5343	OTHER : Upper Carbonate	NATURAL GAS, OIL	N
15894499	AVALON SAND	-1855	5526	5602	OTHER, SANDSTONE : Middle Carbonate	NATURAL GAS, OIL	N
15894500	BONE SPRING 1ST	-2364	6035	6120	SANDSTONE	NATURAL GAS, OIL	N
15894501	BONE SPRING 2ND	-2677	6348	6438	OTHER : Carbonate	NATURAL GAS, OIL	N
15894502	BONE SPRING 2ND	-3109	6780	6878	SANDSTONE	NATURAL GAS, OIL	N
15894503	BONE SPRING 3RD	-3203	6874	6973	SANDSTONE	NATURAL GAS, OIL	N

Well Name: PBR FED COM Well Number: 204H

Formation ID	Formation Name	Elevation	True Vertical	Measured Depth	Lithologies	Mineral Resources	Producing Formatio
15894504	WOLFCAMP	-4583	8254	8424	OTHER, SHALE : A	NATURAL GAS, OIL	Y

Section 2 - Blowout Prevention

Pressure Rating (PSI): 5M Rating Depth: 25000

Equipment: At 24,005', 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 43 CFR 3172 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 43 CFR 3172. 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.

Requesting Variance? YES

Variance request: 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. speed head.

Testing Procedure: 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.

Choke Diagram Attachment:

5M_Choke_Diagram_20250221130744.pdf

BOP Diagram Attachment:

5M_BOP_Diagram_20250221130751.pdf

Section 3 - Casing

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
1	SURFACE	14.7 5	11.75	NEW	API	N	0	340	0	340	3671	3331	340	J-55	42	BUTT	1.13	1.15	DRY	1.6	DRY	1.6
2	INTERMED IATE	11	8.625	NEW	API	N	0	1672	0	1665	3671	2006	1672	J-55	32	BUTT	1.13	1.15	DRY	1.6	DRY	1.6

Well Name: PBR FED COM Well Number: 204H

Casing ID	String Type	Hole Size	Csg Size	Condition	Standard	Tapered String	Top Set MD	Bottom Set MD	Top Set TVD	Bottom Set TVD	Top Set MSL	Bottom Set MSL	Calculated casing length MD	Grade	Weight	Joint Type	Collapse SF	Burst SF	Joint SF Type	Joint SF	Body SF Type	Body SF
3	PRODUCTI ON	7.87 5	5.5	NEW	NON API	N	0	24005	0	8177	3671	-4506	24005	P- 110	20	OTHER - TXP	1.13	1.15	DRY	1.6	DRY	1.6

Casing ID: 1 String SURFACE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20250221130821.pdf

Casing ID: 2 String INTERMEDIATE

Inspection Document:

Spec Document:

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

Casing_Design_Assumptions_20250221130844.pdf

Well Name: PBR FED COM Well Number: 204H

Casing Attachments

Casing ID: 3

String

PRODUCTION

Inspection Document:

Spec Document:

5.5in_TXP_Casing_Spec_20250221130925.PDF

Tapered String Spec:

Casing Design Assumptions and Worksheet(s):

 $Casing_Design_Assumptions_20250221130941.pdf$

Section 4 - Cement

String Type	Lead/Tail	Stage Tool Depth	Top MD	Bottom MD	Quantity(sx)	Yield	Density	Cu Ft	Excess%	Cement type	Additives
SURFACE	Lead		0	0	0	0	0	0	0	None	None
SURFACE	Tail		0	340	222	1.33	14.8	295	100	Class C	5% NCI + LCM
INTERMEDIATE	Lead		0	1172	169	2.7	11	457	75	Class C	Bentonite + 1% CaCL2 + 8% NaCl + LCM
INTERMEDIATE	Tail		1172	1672	124	1.33	14.8	165	30	Class C	5% NaCl + LCM
PRODUCTION	Lead		1472	7936	400	3.35	10.5	1340	20	Class C	Fluid Loss + Dispersant + Retarder + LCM
PRODUCTION	Tail		7936	2400 5	2853	1.63	13.2	4650	20	Class H	Fluid Loss + Dispersant + Retarder + LCM

Well Name: PBR FED COM Well Number: 204H

Section 5 - Circulating Medium

Mud System Type: Closed

Will an air or gas system be Used? NO

Description of the equipment for the circulating system in accordance with 43 CFR 3172:

Diagram of the equipment for the circulating system in accordance with 43 CFR 3172:

Describe what will be on location to control well or mitigate other conditions: 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.

Describe the mud monitoring system utilized: Electronic Pason mud monitor system complying with 43 CFR 3172 will be used.

Circulating Medium Table

O Top Depth	Bottom Depth	Mud Type	% Min Weight (lbs/gal)	A Max Weight (lbs/gal)	Density (lbs/cu ft)	Gel Strength (lbs/100 sqft)	Н	Viscosity (CP)	Salinity (ppm)	Filtration (cc)	Additional Characteristics
	340	Water Spud Mud	0.4	0.4							
340	1672	OTHER : Salt- saturated Mud	10	10							
1672	2400 5	OTHER : FW/Cut Brine	9	9							

Section 6 - Test, Logging, Coring

List of production tests including testing procedures, equipment and safety measures:

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. CBL w/ CCL from as far as gravity will let it fall to TOC.

List of open and cased hole logs run in the well:

MUD LOG/GEOLOGICAL LITHOLOGY LOG, CEMENT BOND LOG,

Coring operation description for the well:

No DSTs or cores are planned at this time.

Well Name: PBR FED COM Well Number: 204H

Section 7 - Pressure

Anticipated Bottom Hole Pressure: 3798 Anticipated Surface Pressure: 1959

Anticipated Bottom Hole Temperature(F): 160

Anticipated abnormal pressures, temperatures, or potential geologic hazards? NO

Describe:

Contingency Plans geoharzards description:

Contingency Plans geohazards

Hydrogen Sulfide drilling operations plan required? YES

Hydrogen sulfide drilling operations

PBR_H2S_Plan_20250221131241.pdf

Section 8 - Other Information

Proposed horizontal/directional/multi-lateral plan submission:

PBR_204H_Directional_Plan_20250221131255.pdf

Other proposed operations facets description:

Other proposed operations facets attachment:

CoFlex_Certs_20250221131314.pdf

PBR_204H_Anticollision_Report_20250221131324.pdf

Wellhead_Diagram_3T_20250221131333.pdf

PBR_WMP_20250221131333.pdf

PBR_204H_Drill_Plan_20250223134050.pdf

BOP_Shell_Test_Procedure_20250223134103.pdf

Other Variance request(s)?:

Other Variance attachment:

Company: Tap Rock Operating

Well: PBR Fed Com 204H

County: Eddy County, New Mexico (NAD 83)

Rig: H&P 466 Wellbore: Wellbore #1 Design: Design #1

Date: 10:08, February 17 2025

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

WELL DETAILS: PBR Fed Com 204H

Easting

526431.60

+N/-S

0.00

0.00

586.33

640.91

640.91

113.96

Well @ 3697.00usft (H&P 466)

Latitude

32° 5' 29.644 N 104° 22' 53.280 W

GL @ 3671.00

TVD

0.00

500.00

1559.34

6674.82

7734.16

7834.16

8355.00

Azi

56.46

56.46

0.00

Northing

397052.54

+E/-W

Name

MD

500.00

1565.47

6770.69

7836.16

7936.16

8760.43

0.00

0.00

10.65

SURVEY PROGRAM

Depth From Depth To Survey/Plan 0.00 24005.41 Design #1 (Wellbore #1)

Tool MWD+IFR1+SAG+FDIR

Directional

DESIGN TARGET DETAILS +E/-W Latitude Northing Easting Longitude -4557.60 991.31 527422.92 32° 4′ 44.545 N 104° 22' 41.734 W 392494.95 387210.81 527447.76 32° 3′ 52.252 N 104° 22' 41.420 W 1016.16 968.15 397413.42 527399.76 32° 5′ 33.220 N 104° 22′ 42.027 W 966.81 527398.42 32° 5' 35.991 N 104° 22' 42.044 W 397693.46 382250.09 527302.90 32° 3' 3.158 N 104° 22' 43.079 W

VSect

0.00

-592.18

Annotation

KOP, 1.00°/100' Build

Begin 10.65° Tangent

Begin 1.00°/100' Drop

KOP, 11.00°/100' Build

Begin 90.67° Lateral

Begin Vertical Hold

Longitude

Azimuths to Grid North True North: 0.03° Magnetic North: 6.89° Magnetic Field Strength: 47090.3nT Dip Angle: 59.48° Date: 2/13/2025 Model: HDGM2025

To convert a Magnetic Direction to a Grid Direction, Add 6.892° To convert a Magnetic Direction to a True Direction, Add 6.867° East To convert a True Direction to a Grid Direction, Add 0.026°

Hold 90.67° Inc, 181.67° Azm

Begin 2.00°/100' Turn

10000 10500 11000 11500 12000 12500 13000 13500 14000 14500 15000

PBHL

BPP1_PBR 204H 8300.44 BPP2_PBR 204H 8238.73 -9841.73 FTP_PBR 204H 0.00 360.88 KOP_PBR 204H 640.91 LTP_PBR 204H 8180.80 -14802.46 PBHL_PBR 204H 8177.00 -15127.59 32° 2' 59.941 N 104° 22' 43.188 W SECTION DETAILS

884.48

966.81

966.81

Dleg

0.00

0.00

1.00

0.00

TFace

0.000

0.000

56.459

0.000

1.00 180.000

0.00 0.000

11.00 179.730

18716.91 -9841.73 8238.73 1016.16 0.00 0.000 9834.77 Begin 2.00°/100' Turn 18814.99 2.00 89.998 9932.84 181.69 -9939.79 1014.94 Hold 90.67° Inc, 181.69° Azm 0.00 0.000 14796.35 23680.11 8180.80 -14802.46 Begin 2.00°/100' Turn Begin 2.00°/100' Turn 23681.09 8180.79 -14803.44 2.00 -88.346 14797.33 0.000 15121.54 8177.00 -15127.59 West(-)/East(+) (600 usft/in) West(-)/East(+) (50 usft/in) -100 -50 0 -3000 -2400 -250 -1800 1800 1800 Begin 1.00°/100' Drop Begin 10.65° Tangent 250-250 Begin Vertical Hold 1200 1200 KOP, 1.00°/100' Build KOP, 11.00°/100' Build 200 Lease Line - Do Not Cross 600 600 South(-)/North(+) (50 usft/in) South(-)/North(+) (50 u 330' Hardline 5000 Begin 90.67° Lateral 2000 , PBR Fed Com 211H -600 -600 20,000 usft/in) -1200 -1200 00000 -1800 -1800 -50--50 -2400 -2400 -350 -150 200 250 300 350 -450 -250 150 -200 100 -3000 -3000 West(-)/East(+) (50 usft/in) West(-)/East(+) (100 usft/in) 0 900 1000 1100 1400 -3600 -3600 700 Lease Line - Do Not Cross 700 -4200 -4200 Begin Vertical Hold 600-600 KOP, 11.00°/100' Build Begin 1.00°/100' Drop -4800 -4800 500--5400 (ui/Jun 400 South(-)/North(+) (100 usft/in) usft/in) 330' Hardline -6000 South(-)/North(+) (100 L South(-)/North(+) (600 NOO NOO -6600 330' Hardline -7200 Begin 90.67° Lateral -500 -7800 Rustler KOP, 1.00°/100' Build -8400 -8400 Top Salt -100 -100 -9000 1000--9000 Begin 2.00°/100' Turn Begin 10.65° Tangent 900 1000 1100 West(-)/East(+) (100 usft/in) 1300 -9600 **-**9600-Delaware Mountain GP Bell Canyopn Hold 90.67° Inc, 181.69° Azm West(-)/East(+) (100 usft/in) 0 900 1000 1100 -10200 -10200 1300 1400 1500 Cherry Canyon Depth (500 usft/in) 1 Depth (500 usft/in) -10800 -10800 -14500 -14500 -11400 -11400 -14600 -14600 -12000 -12000 Brushy Canyon (i) 14700 South(-)/N Begin 2.00°/100' Turn Vertical Noon -12600 -12600 LTP Hold 90.67° Inc, 181.67° Azm 330' Hardline 4500 -13200--13200 -14900 ට් 204H 5000 -13800 -13800 Isft/in) Bone Spring Lime Begin 2.00°/100' Turn Upper Avalon 204H -14400 -14400 **PBHL** Middle avalon Hold 90.67° Inc, 181.67° Azm Lease Line - Do Not Cross -15100 -15100 Lower Avalon -15000--15000 8194 1st Bone Spring Sand Lease Line - Do Not Cross PBHL -15200 -15200 and Bone Spring Carb Begin 1.00°/100' Drop -3000 -2400 -1800 -1200 1200 1800 1200 1300 1400 West(-)/East(+) (600 usft/in) 2nd Bone Spring Sand West(-)/East(+) (100 usft/in) Begin Vertical Hold 7000 3rd Bone Spring Carb

7500-

3rd Bone Spring Sand

Wolfcamp A X Sand
Wolfcamp A Y Sand

3rd BS W Sand

-1500 -1000 -500

KOP, 11.00°/100' Build

Begin 90.67° Lateral

Vertical Section at 180.38° (500 usft/in)

5500

6500 7000 7500 8000

Hold 90.67° Inc, 181.69° Azm

9500

Begin 2.00°/100' Turn

8500 9000



Tap Rock Operating

Eddy County, New Mexico (NAD 83) PBR Fed Com (202H, 204H, 211H, 213H) PBR Fed Com 204H

Wellbore #1

Plan: Design #1

Standard Planning Report

17 February, 2025







Planning Report



Database: TRG_EDMConroe Company: Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466)

Grid

Minimum Curvature

Project Eddy County, New Mexico (NAD 83)

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

System Datum: Mean Sea Level

Site PBR Fed Com (202H, 204H, 211H, 213H)

 Site Position:
 Northing:
 397,077.87 usft
 Latitude:
 32° 5' 29.895 N

 From:
 Map
 Easting:
 526,406.90 usft
 Longitude:
 104° 22' 53.567 W

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 "

Well PBR Fed Com 204H

 Well Position
 +N/-S
 0.00 usft
 Northing:
 397,052.54 usfl
 Latitude:
 32° 5' 29.644 N

 +E/-W
 0.00 usft
 Easting:
 526,431.60 usfl
 Longitude:
 104° 22' 53.280 W

Position Uncertainty 0.00 usft Wellhead Elevation: usft Ground Level: 3,671.00 usft

Grid Convergence: -0.026 °

Wellbore #1

 Magnetics
 Model Name
 Sample Date
 Declination (°)
 Dip Angle (°)
 Field Strength (nT)

 HDGM2025
 2/13/2025
 6.867
 59.483
 47,090.30

Design #1

Audit Notes:

 Version:
 Phase:
 PLAN
 Tie On Depth:
 0.00

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction

 Vertical Section:
 Depth From (TVD)
 +N/-S
 +E/-W
 Direction (usft)

 (usft)
 (usft)
 (usft)
 (°)

 0.00
 0.00
 0.00
 180.38

Plan Survey Tool Program Date 2/17/2025

Depth From Depth To

(usft) (usft) Survey (Wellbore) Tool Name Remarks

1 0.00 24,005.41 Design #1 (Wellbore #1) MWD+IFR1+SAG+FDIR

OWSG MWD + IFR1 + Sag



TAP ROCK

Planning Report



Database: TRG_EDMConroe Company: Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design: Design #1

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

North Reference: Survey Calculation Method: Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466)

Minimum Curvature

Plan Section	s									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.000	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.000	
1,565.47	10.65	56.46	1,559.34	54.58	82.33	1.00	1.00	0.00	56.459	
6,770.69	10.65	56.46	6,674.82	586.33	884.48	0.00	0.00	0.00	0.000	
7,836.16	0.00	0.00	7,734.16	640.91	966.81	1.00	-1.00	0.00	180.000	
7,936.16	0.00	0.00	7,834.16	640.91	966.81	0.00	0.00	0.00	0.000	
8,760.43	90.67	179.73	8,355.00	113.96	969.29	11.00	11.00	0.00	179.730	
18,716.91	90.67	179.73	8,238.73	-9,841.73	1,016.16	0.00	0.00	0.00	0.000	BPP2_PBR 204H
18,814.99	90.67	181.69	8,237.59	-9,939.79	1,014.94	2.00	0.00	2.00	89.998	
23,680.11	90.67	181.69	8,180.80	-14,802.46	871.30	0.00	0.00	0.00	0.000	LTP_PBR 204H
23,681.09	90.67	181.67	8,180.79	-14,803.44	871.27	2.00	0.06	-2.00	-88.346	
24,005.41	90.67	181.67	8,177.00	-15,127.59	861.81	0.00	0.00	0.00	0.000	PBHL_PBR 204H

ROCK

Planning Report



Database: TRG_EDMConroe Company: Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design #1

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

Survey Calculation Method:

Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466) Grid Minimum Curvature

Design:		Design #1								
Planne	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 7.00	0.00 0.00	0.00 0.00	0.00 7.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00
	100.00 200.00 300.00	0.00 0.00 0.00	0.00 0.00 0.00	100.00 200.00 300.00	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 0.00
	365.00 Top Salt 400.00	0.00	0.00	365.00 400.00	0.00	0.00	0.00	0.00	0.00	0.00
	500.00 KOP, 1.00° /	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
	600.00 700.00	1.00 2.00	56.46 56.46	599.99 699.96	0.48 1.93	0.73 2.91	-0.49 -1.95	1.00 1.00	1.00 1.00	0.00 0.00
	800.00 900.00 1,000.00 1,100.00 1,200.00	3.00 4.00 5.00 6.00 7.00	56.46 56.46 56.46 56.46	799.86 899.68 999.37 1,098.90 1,198.26	4.34 7.71 12.05 17.34 23.60	6.54 11.63 18.17 26.16 35.60	-4.38 -7.79 -12.17 -17.52 -23.83	1.00 1.00 1.00 1.00 1.00	1.00 1.00 1.00 1.00 1.00	0.00 0.00 0.00 0.00 0.00
	1,300.00 1,400.00 1,416.91	8.00 9.00 9.17	56.46 56.46 56.46	1,297.40 1,396.30 1,413.00	30.81 38.98 40.45	46.48 58.80 61.02	-31.12 -39.36 -40.85	1.00 1.00 1.00	1.00 1.00 1.00	0.00 0.00 0.00
	1,500.00 1,565.47	10.00 10.65	56.46 56.46	1,494.93 1,559.34	48.10 54.58	72.55 82.33	-48.58 -55.12	1.00 1.00	1.00 1.00	0.00 0.00
	Begin 10.6	5° Tangent								
	1,600.00 1,613.97	10.65 10.65	56.46 56.46	1,593.27 1,607.00	58.11 59.53	87.66 89.81	-58.69 -60.13	0.00 0.00	0.00 0.00	0.00 0.00
	1,622.11 Lamar	Mountain GP 10.65	56.46	1,615.00	60.37	91.06	-60.97	0.00	0.00	0.00
	1,659.76 Bell Canyo	10.65	56.46	1,652.00	64.21	96.86	-64.85	0.00	0.00	0.00
	1,700.00 1,709.62	10.65 10.65	56.46 56.46	1,691.55 1,701.00	68.32 69.31	103.07 104.55	-69.01 -70.00	0.00 0.00	0.00 0.00	0.00 0.00
	Ramsey Sa 1,800.00 1,900.00 2,000.00		56.46 56.46 56.46	1,789.83 1,888.10 1,986.38	78.54 88.75 98.97	118.48 133.89 149.30	-79.32 -89.64 -99.96	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	2,100.00 2,200.00 2,300.00 2,400.00 2,500.00 2,568.42	10.65 10.65 10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46 56.46	2,084.65 2,182.93 2,281.21 2,379.48 2,477.76 2,545.00	109.19 119.40 129.62 139.83 150.05 157.04	164.71 180.12 195.53 210.94 226.35 236.89	-110.28 -120.59 -130.91 -141.23 -151.55 -158.61	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
	Cherry Car	nyon								
	2,600.00 2,700.00 2,800.00 2,900.00 3,000.00	10.65 10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46 56.46	2,576.03 2,674.31 2,772.59 2,870.86 2,969.14	160.26 170.48 180.70 190.91 201.13	241.76 257.17 272.58 287.99 303.40	-161.86 -172.18 -182.50 -192.82 -203.14	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
	3,100.00 3,200.00 3,300.00	10.65 10.65 10.65	56.46 56.46 56.46	3,067.41 3,165.69 3,263.97	211.34 221.56 231.77	318.81 334.22 349.63	-213.45 -223.77 -234.09	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00

TAP ROCK

Planning Report



Database: TRG_EDMConroe Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design: Design #1

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

Survey Calculation Method:

Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466) Grid Minimum Curvature

Well PBR Fed Com 204H

ın:	Design #1								
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)
3,400.00 3,500.00	10.65 10.65	56.46 56.46	3,362.24 3,460.52	241.99 252.21	365.04 380.45	-244.41 -254.72	0.00 0.00	0.00 0.00	0.00 0.00
3,586.98	10.65	56.46	3,546.00	261.09	393.86	-263.70	0.00	0.00	0.00
Brushy Ca	-								
3,600.00 3,700.00 3,800.00 3,900.00	10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46	3,558.79 3,657.07 3,755.34 3,853.62	262.42 272.64 282.85 293.07	395.86 411.27 426.68 442.09	-265.04 -275.36 -285.68 -295.99	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
4,000.00 4,100.00 4,200.00 4,300.00 4,400.00	10.65 10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46 56.46	3,951.90 4,050.17 4,148.45 4,246.72 4,345.00	303.29 313.50 323.72 333.93 344.15	457.51 472.92 488.33 503.74 519.15	-306.31 -316.63 -326.95 -337.27 -347.58	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
4,500.00 4,600.00 4,700.00 4,800.00 4,900.00	10.65 10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46 56.46	4,443.28 4,541.55 4,639.83 4,738.10 4,836.38	354.36 364.58 374.80 385.01 395.23	534.56 549.97 565.38 580.79 596.20	-357.90 -368.22 -378.54 -388.85 -399.17	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
5,000.00 5,100.00 5,200.00 5,242.53	10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46	4,934.66 5,032.93 5,131.21 5,173.00	405.44 415.66 425.87 430.22	611.61 627.02 642.43 648.98	-409.49 -419.81 -430.13 -434.51	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Bone Spri 5,300.00	10.65	56.46	5,229.48	436.09	657.84	-440.44	0.00	0.00	0.00
5,343.26	10.65	56.46	5,272.00	440.51	664.51	-444.91	0.00	0.00	0.00
Upper Ava		30.40	5,212.00	440.01	004.51	- 1	0.00	0.00	0.00
5,400.00 5,500.00 5,600.00 5,601.72	10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46	5,327.76 5,426.04 5,524.31 5,526.00	446.31 456.52 466.74 466.91	673.25 688.66 704.07 704.34	-450.76 -461.08 -471.40 -471.57	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Middle ava	lon								
5,700.00 5,800.00 5,900.00 5,980.24	10.65 10.65 10.65 10.65	56.46 56.46 56.46 56.46	5,622.59 5,720.86 5,819.14 5,898.00	476.95 487.17 497.38 505.58	719.48 734.89 750.30 762.67	-481.71 -492.03 -502.35 -510.63	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Lower Ava		FO 40	E 047 40	F07.00	705.74	F40.07	0.00	0.00	0.00
6,000.00 6,100.00 6,119.65	10.65 10.65 10.65	56.46 56.46 56.46	5,917.42 6,015.69 6,035.00	507.60 517.82 519.82	765.71 781.12 784.15	-512.67 -522.98 -525.01	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
	pring Sand		,						
6,200.00 6,300.00 6,400.00	10.65 10.65 10.65	56.46 56.46 56.46	6,113.97 6,212.24 6,310.52	528.03 538.25 548.46	796.53 811.94 827.36	-533.30 -543.62 -553.94	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,438.14	10.65	56.46	6,348.00	552.36	833.23	-557.87	0.00	0.00	0.00
2nd Bone 9 6,500.00 6,600.00 6,700.00	10.65 10.65 10.65 10.65	56.46 56.46 56.46	6,408.80 6,507.07 6,605.35	558.68 568.89 579.11	842.77 858.18 873.59	-564.26 -574.57 -584.89	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
6,770.69	10.65	56.46	6,674.82	586.33	884.48	-592.18	0.00	0.00	0.00
6,800.00	°/ 100' Drop 10.36	56.46	6,703.64	589.28	888.94	-595.17	1.00	-1.00	0.00
6,877.54 2nd Bone 9	9.59 Spring Sand	56.46	6,780.00	596.70	900.13	-602.66	1.00	-1.00	0.00

ROCK

Planning Report



Database: TRG_EDMConroe Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design: Design #1

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

North Reference: Survey Calculation Method: Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466)

Minimum Curvature

Design:		Design #1								
Planned Su	irvov									
Mea: De	sured epth sft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
6,9	900.00 972.74	9.36 8.63	56.46 56.46	6,802.16 6,874.00	598.75 605.03	903.21 912.69	-604.72 -611.07	1.00 1.00	-1.00 -1.00	0.00 0.00
	000.00	pring Carb 8.36	56.46	6,900.96	607.26	916.05	-613.32	1.00	-1.00	0.00
7,1 7,1 7,4	100.00 200.00 300.00 400.00 500.00	7.36 6.36 5.36 4.36 3.36	56.46 56.46 56.46 56.46 56.46	7,000.02 7,099.30 7,198.78 7,298.42 7,398.19	614.82 621.42 627.06 631.74 635.46	927.45 937.41 945.92 952.98 958.60	-620.95 -627.62 -633.32 -638.05 -641.81	1.00 1.00 1.00 1.00 1.00	-1.00 -1.00 -1.00 -1.00 -1.00	0.00 0.00 0.00 0.00 0.00
7,5 7,8 7,8	600.00 700.00 800.00 836.16 gin Verti	2.36 1.36 0.36 0.00 cal Hold	56.46 56.46 56.46 0.00	7,498.06 7,598.01 7,698.00 7,734.16	638.22 640.02 640.85 640.91	962.76 965.47 966.72 966.81	-644.59 -646.41 -647.25 -647.31	1.00 1.00 1.00 1.00	-1.00 -1.00 -1.00 -1.00	0.00 0.00 0.00 0.00
	900.00	0.00	0.00	7,798.00	640.91	966.81	-647.31	0.00	0.00	0.00
	936.16	0.00	0.00	7,834.16	640.91	966.81	-647.31	0.00	0.00	0.00
KO	P, 11.00	°/100' Build		,						
7,9 8,0	950.00 000.00 014.30	1.52 7.02 8.59	179.73 179.73 179.73	7,848.00 7,897.84 7,912.00	640.73 637.00 635.06	966.82 966.83 966.84	-647.13 -643.40 -641.46	11.00 11.00 11.00	11.00 11.00 11.00	0.00 0.00 0.00
3rd	l Bone S	pring Sand								
8,0	050.00	12.52	179.73	7,947.09	628.52	966.87	-634.92	11.00	11.00	0.00
8,2 8,2 8,2	100.00 150.00 200.00 250.00 276.76	18.02 23.52 29.02 34.52 37.47	179.73 179.73 179.73 179.73 179.73	7,995.31 8,042.04 8,086.86 8,129.35 8,151.00	615.36 597.63 575.51 549.19 533.47	966.93 967.02 967.12 967.25 967.32	-621.76 -604.03 -581.91 -555.59 -539.87	11.00 11.00 11.00 11.00 11.00	11.00 11.00 11.00 11.00 11.00	0.00 0.00 0.00 0.00 0.00
3rd	IBS W S	Sand								
8,4 8,4 8,4	300.00 350.00 400.00 424.44	40.02 45.52 51.02 53.71	179.73 179.73 179.73 179.73	8,169.12 8,205.81 8,239.08 8,254.00	518.92 484.98 447.68 428.33	967.39 967.55 967.72 967.82	-525.33 -491.39 -454.09 -434.74	11.00 11.00 11.00 11.00	11.00 11.00 11.00 11.00	0.00 0.00 0.00 0.00
		A X Sand	470.70	0.000.00	407.00	007.04	440.70	44.00	44.00	0.00
8,9 8,9 8,9	450.00 500.00 550.00 554.07	56.52 62.02 67.52 67.97	179.73 179.73 179.73 179.73	8,268.62 8,294.16 8,315.46 8,317.00	407.36 364.40 319.19 315.43	967.91 968.12 968.33 968.35	-413.78 -370.81 -325.60 -321.84	11.00 11.00 11.00 11.00	11.00 11.00 11.00 11.00	0.00 0.00 0.00 0.00
		A Y Sand								
	600.00 650.00	73.02 78.52	179.73 179.73	8,332.33 8,344.62	272.14 223.70	968.55 968.78	-278.56 -230.12	11.00 11.00	11.00 11.00	0.00 0.00
8, 8,	700.00 750.00 760.43	84.02 89.52 90.67	179.73 179.73 179.73	8,352.20 8,355.01 8,355.00	174.29 124.39 113.96	969.01 969.25 969.29	-180.72 -130.82 -120.39	11.00 11.00 11.00	11.00 11.00 11.00	0.00 0.00 0.00
	_	7° Lateral								
	800.00 900.00	90.67 90.67	179.73 179.73	8,354.54 8,353.37	74.40 -25.60	969.48 969.95	-80.82 19.16	0.00 0.00	0.00 0.00	0.00 0.00
9,; 9,; 9,;	000.00 100.00 200.00 300.00 400.00	90.67 90.67 90.67 90.67 90.67	179.73 179.73 179.73 179.73 179.73	8,352.20 8,351.03 8,349.86 8,348.70 8,347.53	-125.59 -225.58 -325.57 -425.56 -525.56	970.42 970.89 971.36 971.83 972.30	119.15 219.14 319.12 419.11 519.10	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
	500.00 600.00	90.67 90.67	179.73 179.73	8,346.36 8,345.19	-625.55 -725.54	972.78 973.25	619.08 719.07	0.00 0.00	0.00 0.00	0.00 0.00

ROCK

Planning Report



Database: TRG_EDMConroe Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1

Local Co-ordinate Reference: TVD Reference:

MD Reference: North Reference: Survey Calculation Method: Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466)

Minimum Curvature

Design:	Design #1								
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,700.00	90.67	179.73	8,344.03	-825.53	973.72	819.06	0.00	0.00	0.00
9,800.00	90.67	179.73	8,342.86	-925.52	974.19	919.04	0.00	0.00	0.00
9,900.00	90.67	179.73	8,341.69	-1,025.52	974.66	1,019.03	0.00	0.00	0.00
10,000.00	90.67	179.73	8,340.52	-1,125.51	975.13	1,119.02	0.00	0.00	0.00
10,100.00	90.67	179.73	8,339.35	-1,225.50	975.60	1,219.00	0.00	0.00	0.00
10,200.00	90.67	179.73	8,338.19	-1,325.49	976.07	1,318.99	0.00	0.00	0.00
10,300.00	90.67	179.73	8,337.02	-1,425.49	976.54	1,418.98	0.00	0.00	0.00
10,400.00	90.67	179.73	8,335.85	-1,525.48	977.01	1,518.96	0.00	0.00	0.00
10,500.00	90.67	179.73	8,334.68	-1,625.47	977.48	1,618.95	0.00	0.00	0.00
10,600.00	90.67	179.73	8,333.52	-1,725.46	977.95	1,718.94	0.00	0.00	0.00
10,700.00	90.67	179.73	8,332.35	-1,825.45	978.42	1,818.92	0.00	0.00	0.00
10,800.00	90.67	179.73	8,331.18	-1,925.45	978.89	1,918.91	0.00	0.00	0.00
10,900.00	90.67	179.73	8,330.01	-2,025.44	979.36	2,018.90	0.00	0.00	0.00
11,000.00	90.67	179.73	8,328.84	-2,125.43	979.84	2,118.88	0.00	0.00	0.00
11,100.00	90.67	179.73	8,327.68	-2,225.42	980.31	2,218.87	0.00	0.00	0.00
11,200.00	90.67	179.73	8,326.51	-2,325.41	980.78	2,318.86	0.00	0.00	0.00
11,300.00	90.67	179.73	8,325.34	-2,425.41	981.25	2,418.84	0.00	0.00	0.00
11,400.00	90.67	179.73	8,324.17	-2,525.40	981.72	2,518.83	0.00	0.00	0.00
11,500.00	90.67	179.73	8,323.01	-2,625.39	982.19	2,618.82	0.00	0.00	0.00
11,600.00	90.67	179.73	8,321.84	-2,725.38	982.66	2,718.80	0.00	0.00	0.00
11,700.00	90.67	179.73	8,320.67	-2,825.37	983.13	2,818.79	0.00	0.00	0.00
11,800.00	90.67	179.73	8,319.50	-2,925.37	983.60	2,918.78	0.00	0.00	0.00
11,900.00	90.67	179.73	8,318.34	-3,025.36	984.07	3,018.77	0.00	0.00	0.00
12,000.00	90.67	179.73	8,317.17	-3,125.35	984.54	3,118.75	0.00	0.00	0.00
12,100.00	90.67	179.73	8,316.00	-3,225.34	985.01	3,218.74	0.00	0.00	0.00
12,200.00	90.67	179.73	8,314.83	-3,325.33	985.48	3,318.73	0.00	0.00	0.00
12,300.00	90.67	179.73	8,313.66	-3,425.33	985.95	3,418.71	0.00	0.00	0.00
12,400.00	90.67	179.73	8,312.50	-3,525.32	986.42	3,518.70	0.00	0.00	0.00
12,500.00	90.67	179.73	8,311.33	-3,625.31	986.90	3,618.69	0.00	0.00	0.00
12,600.00	90.67	179.73	8,310.16	-3,725.30	987.37	3,718.67	0.00	0.00	0.00
12,700.00	90.67	179.73	8,308.99	-3,825.29	987.84	3,818.66	0.00	0.00	0.00
12,800.00	90.67	179.73	8,307.83	-3,925.29	988.31	3,918.65	0.00	0.00	0.00
12,900.00	90.67	179.73	8,306.66	-4,025.28	988.78	4,018.63	0.00	0.00	0.00
13,000.00	90.67	179.73	8,305.49	-4,125.27	989.25	4,118.62	0.00	0.00	0.00
13,100.00	90.67	179.73	8,304.32	-4,225.26	989.72	4,218.61	0.00	0.00	0.00
13,200.00	90.67	179.73	8,303.15	-4,325.26	990.19	4,318.59	0.00	0.00	0.00
13,300.00	90.67	179.73	8,301.99	-4,425.25	990.66	4,418.58	0.00	0.00	0.00
13,400.00	90.67	179.73	8,300.82	-4,525.24	991.13	4,518.57	0.00	0.00	0.00
13,500.00	90.67	179.73	8,299.65	-4,625.23	991.60	4,618.55	0.00	0.00	0.00
13,600.00	90.67	179.73	8,298.48	-4,725.22	992.07	4,718.54	0.00	0.00	0.00
13,700.00	90.67	179.73	8,297.32	-4,825.22	992.54	4,818.53	0.00	0.00	0.00
13,800.00	90.67	179.73	8,296.15	-4,925.21	993.01	4,918.51	0.00	0.00	0.00
13,900.00	90.67	179.73	8,294.98	-5,025.20	993.48	5,018.50	0.00	0.00	0.00
14,000.00	90.67	179.73	8,293.81	-5,125.19	993.95	5,118.49	0.00	0.00	0.00
14,100.00	90.67	179.73	8,292.64	-5,225.18	994.43	5,218.47	0.00	0.00	0.00
14,200.00	90.67	179.73	8,291.48	-5,325.18	994.90	5,318.46	0.00	0.00	0.00
14,300.00	90.67	179.73	8,290.31	-5,425.17	995.37	5,418.45	0.00	0.00	0.00
14,400.00	90.67	179.73	8,289.14	-5,525.16	995.84	5,518.43	0.00	0.00	0.00
14,500.00	90.67	179.73	8,287.97	-5,625.15	996.31	5,618.42	0.00	0.00	0.00
14,600.00	90.67	179.73	8,286.81	-5,725.14	996.78	5,718.41	0.00	0.00	0.00
14,700.00	90.67	179.73	8,285.64	-5,825.14	997.25	5,818.39	0.00	0.00	0.00
14,800.00	90.67	179.73	8,284.47	-5,925.13	997.72	5,918.38	0.00	0.00	0.00
14,900.00	90.67	179.73	8,283.30	-6,025.12	998.19	6,018.37	0.00	0.00	0.00
15,000.00	90.67	179.73	8,282.13	-6,125.11	998.66	6,118.35	0.00	0.00	0.00

Planning Report



TRG_EDMConroe Database: Tap Rock Operating Company:

Project: Eddy County, New Mexico (NAD 83) Site: PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H Wellbore: Wellbore #1 Design: Design #1

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

Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466) Minimum Curvature **Survey Calculation Method:**

Well PBR Fed Com 204H

Design:	Design #1								
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)
15,100.00	90.67	179.73	8,280.97	-6,225.10	999.13	6,218.34	0.00	0.00	0.00
15,200.00	90.67	179.73	8,279.80	-6,325.10	999.60	6,318.33	0.00	0.00	0.00
15,300.00	90.67	179.73	8,278.63	-6,425.09	1,000.07	6,418.31	0.00	0.00	0.00
15,400.00	90.67	179.73	8,277.46	-6,525.08	1,000.54	6,518.30	0.00	0.00	0.00
15,500.00	90.67	179.73	8,276.30	-6,625.07	1,001.01	6,618.29	0.00	0.00	0.00
15,600.00	90.67	179.73	8,275.13	-6,725.07	1,001.49	6,718.28	0.00	0.00	0.00
15,700.00	90.67	179.73	8,273.96	-6,825.06	1,001.96	6,818.26	0.00	0.00	0.00
15,800.00	90.67	179.73	8,272.79	-6,925.05	1,002.43	6,918.25	0.00	0.00	0.00
15,900.00	90.67	179.73	8,271.62	-7,025.04	1,002.90	7,018.24	0.00	0.00	0.00
16,000.00	90.67	179.73	8,270.46	-7,125.03	1,003.37	7,118.22	0.00	0.00	0.00
16,100.00	90.67	179.73	8,269.29	-7,225.03	1,003.84	7,218.21	0.00	0.00	0.00
16,200.00	90.67	179.73	8,268.12	-7,325.02	1,004.31	7,318.20	0.00	0.00	0.00
16,300.00	90.67	179.73	8,266.95	-7,425.01	1,004.78	7,418.18	0.00	0.00	0.00
16,400.00	90.67	179.73	8,265.79	-7,525.00	1,005.25	7,518.17	0.00	0.00	0.00
16,500.00	90.67	179.73	8,264.62	-7,624.99	1,005.72	7,618.16	0.00	0.00	0.00
16,600.00	90.67	179.73	8,263.45	-7,724.99	1,006.19	7,718.14	0.00	0.00	0.00
16,700.00	90.67	179.73	8,262.28	-7,824.98	1,006.66	7,818.13	0.00	0.00	0.00
16,800.00	90.67	179.73	8,261.12	-7,924.97	1,007.13	7,918.12	0.00	0.00	0.00
16,900.00	90.67	179.73	8,259.95	-8,024.96	1,007.60	8,018.10	0.00	0.00	0.00
17,000.00	90.67	179.73	8,258.78	-8,124.95	1,008.07	8,118.09	0.00	0.00	0.00
17,100.00	90.67	179.73	8,257.61	-8,224.95	1,008.55	8,218.08	0.00	0.00	0.00
17,200.00	90.67	179.73	8,256.44	-8,324.94	1,009.02	8,318.06	0.00	0.00	0.00
17,300.00	90.67	179.73	8,255.28	-8,424.93	1,009.49	8,418.05	0.00	0.00	0.00
17,400.00	90.67	179.73	8,254.11	-8,524.92	1,009.96	8,518.04	0.00	0.00	0.00
17,500.00	90.67	179.73	8,252.94	-8,624.91	1,010.43	8,618.02	0.00	0.00	0.00
17,600.00	90.67	179.73	8,251.77	-8,724.91	1,010.90	8,718.01	0.00	0.00	0.00
17,700.00	90.67	179.73	8,250.61	-8,824.90	1,011.37	8,818.00	0.00	0.00	0.00
17,800.00	90.67	179.73	8,249.44	-8,924.89	1,011.84	8,917.98	0.00	0.00	0.00
17,900.00	90.67	179.73	8,248.27	-9,024.88	1,012.31	9,017.97	0.00	0.00	0.00
18,000.00	90.67	179.73	8,247.10	-9,124.87	1,012.78	9,117.96	0.00	0.00	0.00
18,100.00	90.67	179.73	8,245.93	-9,224.87	1,013.25	9,217.94	0.00	0.00	0.00
18,200.00	90.67	179.73	8,244.77	-9,324.86	1,013.72	9,317.93	0.00	0.00	0.00
18,300.00	90.67	179.73	8,243.60	-9,424.85	1,014.19	9,417.92	0.00	0.00	0.00
18,400.00	90.67	179.73	8,242.43	-9,524.84	1,014.66	9,517.90	0.00	0.00	0.00
18,500.00 18,600.00 18,700.00 18,716.91 Begin 2.00	90.67 90.67 90.67 90.67 °/ 100' Turn	179.73 179.73 179.73 179.73	8,241.26 8,240.10 8,238.93 8,238.73	-9,624.84 -9,724.83 -9,824.82 -9,841.73	1,015.13 1,015.60 1,016.08 1,016.16	9,617.89 9,717.88 9,817.86 9,834.77	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
18,800.00	90.67	181.39	8,237.76	-9,924.81	1,015.34	9,917.85	2.00	0.00	2.00
18,814.99	90.67	181.69	8,237.59	-9,939.79	1,014.94	9,932.84	2.00	0.00	2.00
Hold 90.67 18,900.00 19,000.00 19,100.00 19,200.00	° Inc, 181.69° A 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69 181.69	8,236.59 8,235.43 8,234.26 8,233.09	-10,024.76 -10,124.71 -10,224.66 -10,324.61	1,012.43 1,009.48 1,006.52 1,003.57	10,017.82 10,117.79 10,217.76 10,317.72	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
19,300.00	90.67	181.69	8,231.92	-10,424.55	1,000.62	10,417.69	0.00	0.00	0.00
19,400.00	90.67	181.69	8,230.76	-10,524.50	997.67	10,517.66	0.00	0.00	0.00
19,500.00	90.67	181.69	8,229.59	-10,624.45	994.71	10,617.62	0.00	0.00	0.00
19,600.00	90.67	181.69	8,228.42	-10,724.40	991.76	10,717.59	0.00	0.00	0.00
19,700.00	90.67	181.69	8,227.26	-10,824.35	988.81	10,817.56	0.00	0.00	0.00
19,800.00	90.67	181.69	8,226.09	-10,924.30	985.86	10,917.52	0.00	0.00	0.00
19,900.00	90.67	181.69	8,224.92	-11,024.25	982.90	11,017.49	0.00	0.00	0.00
20,000.00	90.67	181.69	8,223.75	-11,124.20	979.95	11,117.46	0.00	0.00	0.00

ROCK

Planning Report



Database: TRG_EDMConroe Tap Rock Operating

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design: Design #1

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

Survey Calculation Method:

Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466) Grid Minimum Curvature

esign:	Design #1								
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)
20,100.00 20,200.00	90.67 90.67	181.69 181.69	8,222.59 8,221.42	-11,224.15 -11,324.10	977.00 974.05	11,217.42 11,317.39	0.00 0.00	0.00 0.00	0.00 0.00
20,300.00 20,400.00 20,500.00 20,600.00 20,700.00	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69	8,220.25 8,219.09 8,217.92 8,216.75 8,215.58	-11,424.05 -11,524.00 -11,623.95 -11,723.90 -11,823.85	971.09 968.14 965.19 962.24 959.28	11,417.36 11,517.33 11,617.29 11,717.26 11,817.23	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
20,800.00 20,900.00 21,000.00 21,100.00 21,200.00	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69 181.69	8,214.42 8,213.25 8,212.08 8,210.91 8,209.75	-11,923.80 -12,023.75 -12,123.70 -12,223.65 -12,323.60	956.33 953.38 950.43 947.48 944.52	11,917.19 12,017.16 12,117.13 12,217.09 12,317.06	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
21,300.00 21,400.00 21,500.00 21,600.00 21,700.00	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69	8,208.58 8,207.41 8,206.25 8,205.08 8,203.91	-12,423.55 -12,523.50 -12,623.45 -12,723.40 -12,823.34	941.57 938.62 935.67 932.71 929.76	12,417.03 12,517.00 12,616.96 12,716.93 12,816.90	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
21,800.00 21,900.00 22,000.00 22,100.00 22,200.00	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69 181.69	8,202.74 8,201.58 8,200.41 8,199.24 8,198.08	-12,923.29 -13,023.24 -13,123.19 -13,223.14 -13,323.09	926.81 923.86 920.90 917.95 915.00	12,916.86 13,016.83 13,116.80 13,216.76 13,316.73	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
22,300.00 22,400.00 22,500.00 22,600.00 22,700.00	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69 181.69	8,196.91 8,195.74 8,194.57 8,193.41 8,192.24	-13,423.04 -13,522.99 -13,622.94 -13,722.89 -13,822.84	912.05 909.09 906.14 903.19 900.24	13,416.70 13,516.67 13,616.63 13,716.60 13,816.57	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
22,800.00 22,900.00 23,000.00 23,100.00 23,200.00	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69 181.69	8,191.07 8,189.91 8,188.74 8,187.57 8,186.40	-13,922.79 -14,022.74 -14,122.69 -14,222.64 -14,322.59	897.28 894.33 891.38 888.43 885.47	13,916.53 14,016.50 14,116.47 14,216.43 14,316.40	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
23,300.00 23,400.00 23,500.00 23,600.00 23,680.11	90.67 90.67 90.67 90.67 90.67	181.69 181.69 181.69 181.69	8,185.24 8,184.07 8,182.90 8,181.74 8,180.80	-14,422.54 -14,522.49 -14,622.44 -14,722.39 -14,802.46	882.52 879.57 876.62 873.67 871.30	14,416.37 14,516.34 14,616.30 14,716.27 14,796.35	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
Begin 2.00°									
	90.67 'Inc, 181.67°		8,180.79	-14,803.44	871.27	14,797.33	2.00	0.06	-2.00
23,700.00 23,800.00 23,900.00 24,005.41 PBHL	90.67 90.67 90.67 90.67	181.67 181.67 181.67 181.67	8,180.57 8,179.40 8,178.23 8,177.00	-14,822.34 -14,922.29 -15,022.24 -15,127.59	870.72 867.80 864.88 861.81	14,816.24 14,916.20 15,016.17 15,121.54	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00



Planning Report



TRG_EDMConroe Database: Tap Rock Operating Company:

Project: Eddy County, New Mexico (NAD 83) PBR Fed Com (202H, 204H, 211H, 213H) Site:

Well: PBR Fed Com 204H Wellbore: Wellbore #1 Design: Design #1

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

North Reference: **Survey Calculation Method:** Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466)

Minimum Curvature

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_PBR 204H - plan misses targe - Point	0.00 et center by	360.00 1033.22usf	0.00 t at 0.00us	360.88 aft MD (0.00 T	968.15 VD, 0.00 N,	397,413.42 0.00 E)	527,399.76	32° 5' 33.220 N	104° 22' 42.027 W
KOP_PBR 204H - plan misses targe - Point	0.00 et center by		0.00 t at 0.00us	640.91 ft MD (0.00 T	966.81 VD, 0.00 N,	397,693.45 0.00 E)	527,398.42	32° 5' 35.991 N	104° 22' 42.044 W
PBHL_PBR 204H - plan hits target co - Point	0.00 enter	360.00	8,177.00	-15,127.59	861.81	381,924.95	527,293.41	32° 2' 59.941 N	104° 22' 43.188 W
LTP PBR 204H - plan hits target co - Point	0.00 enter	360.00	8,180.80	-14,802.46	871.30	382,250.09	527,302.90	32° 3' 3.158 N	104° 22' 43.079 W
BPP2_PBR 204H - plan hits target co - Point	0.00 enter	360.00	8,238.73	-9,841.73	1,016.16	387,210.81	527,447.76	32° 3' 52.252 N	104° 22' 41.420 W
BPP1_PBR 204H - plan misses targe - Point	0.00 et center by		8,300.44 13432.36ເ	,	991.31).44 TVD, -45	392,494.94 557.60 N, 991.28	527,422.92 E)	32° 4' 44.545 N	104° 22' 41.734 W

rmations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	7.00	7.00	Rustler			
	365.00	365.00	Top Salt			
	1,416.91	1,413.00	Base Salt			
	1,613.97	1,607.00	Delaware Mountain GP			
	1,622.11	1,615.00	Lamar			
	1,659.76	1,652.00	Bell Canyopn			
	1,709.62	1,701.00	Ramsey Sand			
	2,568.42	2,545.00	Cherry Canyon			
	3,586.98	3,546.00	Brushy Canyon			
	5,242.53	5,173.00	Bone Spring Lime			
	5,343.26	5,272.00	Upper Avalon			
	5,601.72	5,526.00	Middle avalon			
	5,980.24	,	Lower Avalon			
	6,119.65	6,035.00	1st Bone Spring Sand			
	6,438.14	6,348.00	2nd Bone Spring Carb			
	6,877.54	6,780.00	2nd Bone Spring Sand			
	6,972.74	6,874.00	3rd Bone Spring Carb			
	8,014.30	7,912.00	3rd Bone Spring Sand			
	8,276.76	8,151.00	3rd BS W Sand			
	8,424.44	8,254.00	Wolfcamp A X Sand			
	8,554.07	8,317.00	Wolfcamp A Y Sand			





Planning Report



Database: TRG_EDMConroe Tap Rock Operating

23,681.09

24,005.41

 Project:
 Eddy County, New Mexico (NAD 83)

 Site:
 PBR Fed Com (202H, 204H, 211H, 213H)

8,180.79

8,177.00

-14,803.44

-15,127.59

Well: PBR Fed Com 204H
Wellbore: Wellbore #1
Design: Design #1

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

North Reference: Survey Calculation Method:

Hold 90.67° Inc, 181.67° Azm

Well PBR Fed Com 204H Well @ 3697.00usft (H&P 466) Well @ 3697.00usft (H&P 466)

Minimum Curvature

Plan Annotations Vertical Measured **Local Coordinates** Depth Depth +N/-S +E/-W (usft) (usft) (usft) (usft) Comment 500.00 500.00 0.00 0.00 KOP, 1.00°/100' Build 82.33 1,565.47 1,559.34 54.58 Begin 10.65° Tangent 884.48 Begin 1.00°/100' Drop 6,770.69 6,674.82 586.33 640.91 966.81 Begin Vertical Hold 7,836.16 7.734.16 KOP, 11.00°/100' Build 7,936.16 7,834.16 640.91 966.81 Begin 90.67° Lateral Begin 2.00°/100' Turn 8,760.43 8,355.00 113.96 969.29 -9,841.73 1,016.16 18,716.91 8,238.73 Hold 90.67° Inc, 181.69° Azm 18,814.99 8,237.59 -9,939.79 1,014.94 -14,802.46 Begin 2.00°/100' Turn 23,680.11 8,180.80 871.30

871.27

861.81

PBHL

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME: Tap Rock Operating LLC
WELL NAME & NO.: PBR Fed Com 204H
LOCATION: Sec 34-25S-25E-NMP
COUNTY: Eddy County, New Mexico

COA

H_2S	•	No	© Yes		
Potash /	None	Secretary	© R-111-Q	☐ Open Annulus	
WIPP				\square WIPP	
Cave / Karst	C Low	Medium	High	Critical	
Wellhead	Conventional	Multibowl	O Both	Diverter	
Cementing	☐ Primary Squeeze	☐ Cont. Squeeze	☐ EchoMeter	□ DV Tool	
Special Req	☐ Capitan Reef	☐ Water Disposal	▼ COM	Unit	
Waste Prev.	C Self-Certification	• Waste Min. Plan	C APD Submitted p	rior to 06/10/2024	
Additional	▼ Flex Hose	☐ Casing Clearance	☐ Pilot Hole	Break Testing	
Language	☐ Four-String	☐ Offline Cementing	☐ Fluid-Filled		

A. HYDROGEN SULFIDE

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

B. CASING

- 1. The **11-3/4** inch surface casing shall be set at approximately **340** 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.
 - 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 <u>8 hours</u> or <u>500</u> 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 8-5/8 inch intermediate casing (set at 1645' per BLM geologist) 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.

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.

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for intervals utilizing a 5M BOPE or less. (Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP.)
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer (575-706-2779) prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per 43 CFR 3172.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

GENERAL REQUIREMENTS

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

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

Contact Eddy County Petroleum Engineering Inspection Staff:

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

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

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- 2. <u>Wait on cement (WOC) for Potash Areas:</u> After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following

Page 4 of 7

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

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR 3172**.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - i. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - ii. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - iii. Manufacturer representative shall install the test plug for the initial BOP test.
 - iv. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.
 - v. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - i. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - ii. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - iii. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to 43 CFR 3172 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for 8 hours or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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



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

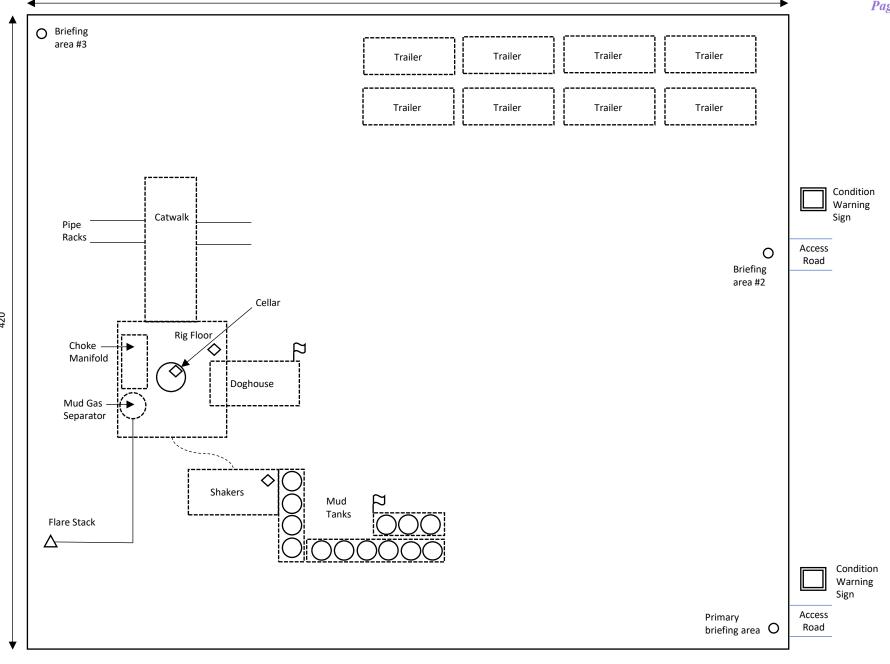
Emergency Contacts	S	
Carlsbad Police Department	575.887.7551	911
Carlsbad Medical Center	575.887.4100	911
Eddy County Fire Service	575.628.5450	911
Eddy County Sherriff	575.887.7551	911
Lea County Fire Service	575.391.2983	911
Lea County Sherriff	575.396.3611	911
Jal Police Department	575.395.2121	911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

Rig Diagram
PBR
Tap Rock Operating, LLC
34-25S-25E
Eddy County, NM



- O Briefing Area
- Current Well
- ↑ Flare Stack
- → H2S Monitor
- Wind Indicator
- Mud Gas Separator





460'

Received by OCD: 6/21/2025 1:40:54 PM

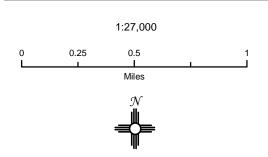
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Tap Rock Operating LLC

PBR Fed Com Well Pad H2S Contingency Plan: 2 Mile Radius Map

Sec. 34, Township 25S, Range 25E Eddy County, New Mexico

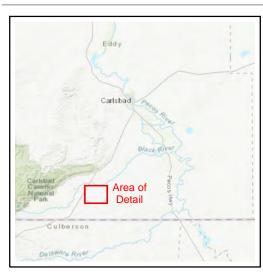


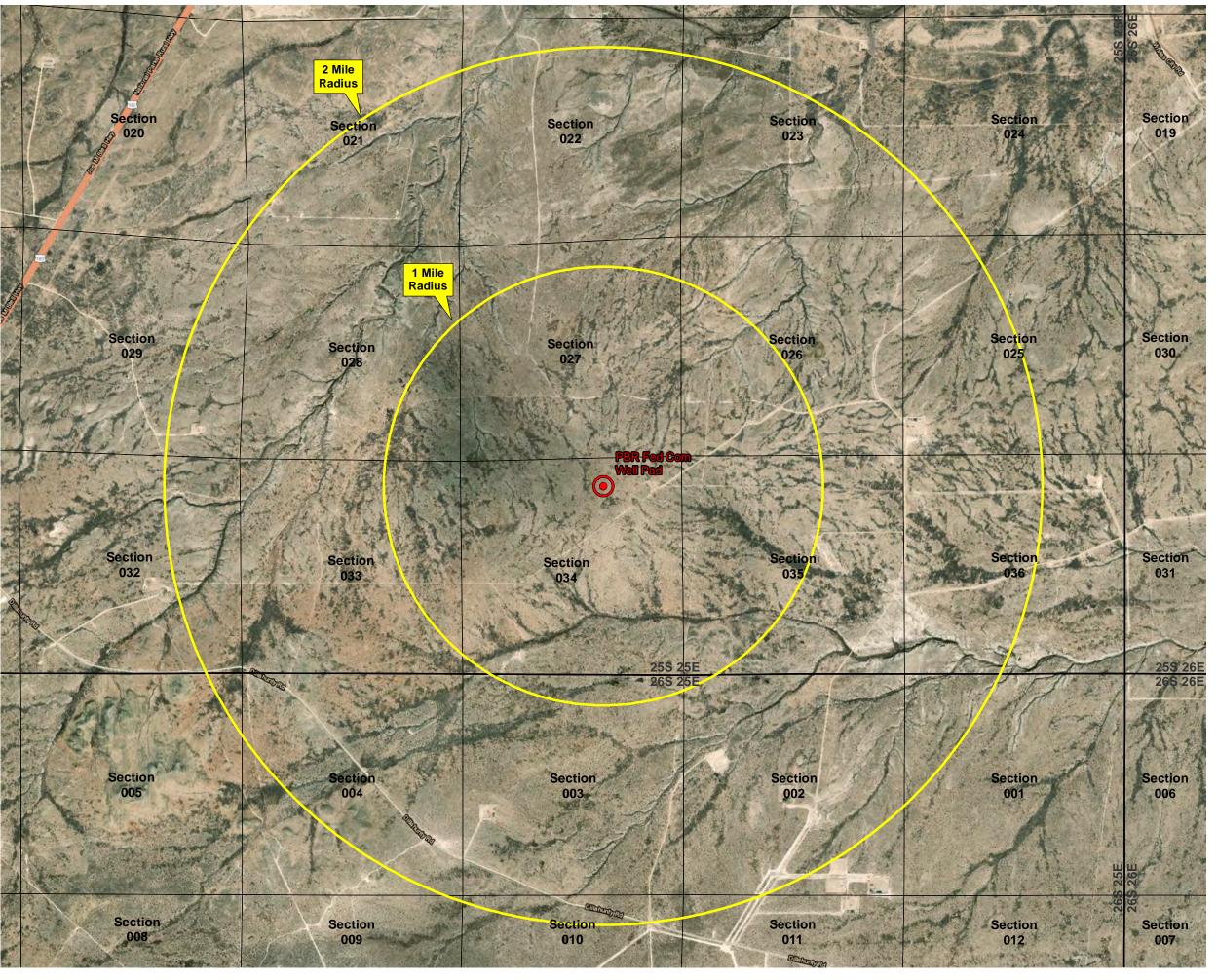


NAD 1983 New Mexico State Plane East FIPS 3001 Feet

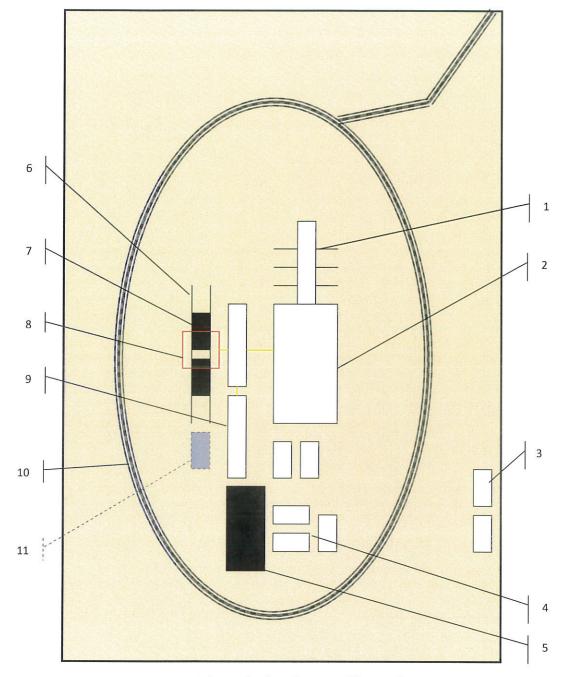


Prepared by Permits West, Inc., February 20, 2025 for Tap Rock Operating, LLC





Released to Imaging: 7/26/2025 9:14:59 AM



Schematic Closed Loop Drilling Rig*

- 1. Pipe Rack
- 2. Drill Rig
- 3. House Trailers/ Offices
- 4. Generator/Fuel/Storage
- 5. Overflow-Frac Tank
- 6. Skids
- 7. Roll Offs
- 8. Hopper or Centrifuge
- 9. Mud Tanks
- 10. Loop Drive
- 11. Generator (only for use with centrifuge)

*Not drawn to scale: Closed loop system requires at least 30 feet beyond mud tanks. Ideally 60 feet would be available





Above: Centrifugal Closed Loop System



Closed Loop Drilling System: Mud tanks to right (1)

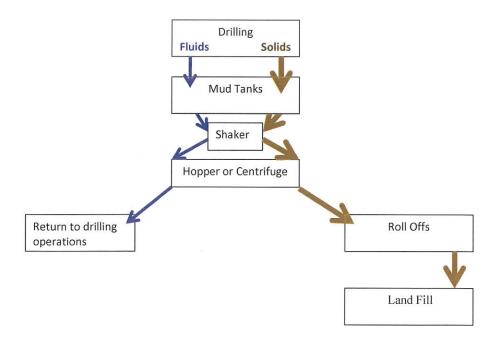
Hopper in air to settle out solids (2)

Water return pipe (3)

Shaker between hopper and mud tanks (4)

Roll offs on skids (5)

Flow Chart for Drilling Fluids and Solids



Photos Courtesy of Gandy Corporation Oil Field Service



Sante Fe Main Office Phone: (505) 476-3441

General Information Phone: (505) 629-6116

Online Phone Directory https://www.emnrd.nm.gov/ocd/contact-us

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

CONDITIONS

Action 477533

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
1700 Lincoln St	Action Number:
Denver, CO 80203	477533
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify the OCD 24 hours prior to casing & cement.	7/26/2025
ward.rikala	File As Drilled C-102 and a directional Survey with C-104 completion packet.	7/26/2025
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.	7/26/2025
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing.	7/26/2025
ward.rikala	If cement does not circulate on any string, a Cement Bond Log (CBL) is required for that string of casing.	7/26/2025
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.	7/26/2025