Form 3160-3 (June 2015) UNITED STATES				FORM AP OMB No. 1 Expires: Janu	1004-01	37			
DEPARTMENT OF THE I BUREAU OF LAND MANA				5. Lease Serial No.					
APPLICATION FOR PERMIT TO D				6. If Indian, Allotee or	Tribe N	ame			
la. Type of work:	EENTER			7. If Unit or CA Agreen	ment, N	ame and No.			
1b. Type of Well: Oil Well Gas Well Oil 1c. Type of Completion: Hydraulic Fracturing Si	8. Lease Name and Well No.								
2. Name of Operator				9. API Well No. 30-015-40922					
3a. Address	le)	10. Field and Pool, or I	Explora	tory					
 4. Location of Well (<i>Report location clearly and in accordance v</i> At surface At proposed prod. zone 	vith any State	e requirements.*)		11. Sec., T. R. M. or Bl	lk. and S	Survey or Area			
14. Distance in miles and direction from nearest town or post offi			12. County or Parish		13. State				
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	17. Spaci	ng Unit dedicated to this	well						
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	8. Distance from proposed location* 19. Proposed Depth to nearest well, drilling, completed,					BLM/BIA Bond No. in file			
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approx	Approximate date work will start* 23. Estimated duration							
	24. Attac	chments							
The following, completed in accordance with the requirements of (as applicable)	f Onshore Oil	and Gas Order No.	l, and the I	Hydraulic Fracturing rule	e per 43	CFR 3162.3-3			
 Well plat certified by a registered surveyor. A Drilling Plan. 		4. Bond to cover th Item 20 above).	e operatior	ns unless covered by an ex	xisting b	oond on file (see			
3. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office		 5. Operator certific 6. Such other site sp BLM. 		rmation and/or plans as ma	ay be ree	quested by the			
25. Signature	Name	e (Printed/Typed)		D	ate				
Title									
Approved by (Signature)	Name	e (Printed/Typed)		D	ate				
Title	Office	2							
Application approval does not warrant or certify that the applicant applicant to conduct operations thereon. Conditions of approval, if any, are attached.	t holds legal	or equitable title to the	nose rights	in the subject lease whic	ch would	l entitle the			
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, m of the United States any false, fictitious or fraudulent statements of					departi	nent or agency			
			-010						



(Continued on page 2)

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1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720

Phone: (575) 748-1283 Fax: (575) 748-9720

Phone: (505) 334-6178 Fax: (505) 334-6170

1220 S. St. Francis Dr., Santa Fe, NM 87505

Phone: (505) 476-3460 Fax: (505) 476-3462

1000 Rio Brazos Road, Aztec, NM 87410

811 S. First St., Artesia, NM 88210

District I

District II

District III

District IV

Page 2 of 42

FORM C-102 Revised August 1, 2011 Energy, Minerals & Natural Resources Submit one copy to appropriate **District Office** OIL CONSERVATION DIVISION

AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

State of New Mexico

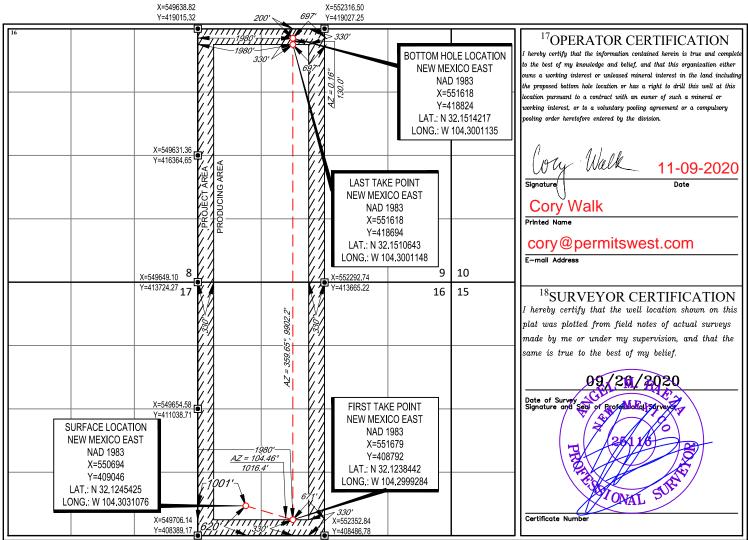
Department

1220 South St. Francis Dr.

Santa Fe, NM 87505

API Number	•										
022		98220 PURPLE SAGE; WOLFCAMP (GAS)									
ode		⁵ Property Name ⁶ Well Number									
5		SCHLITZ FED COM 202H									
0.				⁸ Operator N	lame				⁹ Elevation		
3			TAP	ROCK OPE	RATING, LLC.				3429'		
¹⁰ Surface Location											
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Eas	st/West line	County		
16	25-S	26-E	-	620'	SOUTH	1001'	WES	ST	EDDY		
		¹¹ H	Bottom Ho	le Location If D	Different From Sur	rface					
Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	Ea	st/West line	County		
9	25–S	26-E	-	200'	NORTH	1980'	WES	ST	EDDY		
¹³ Joint or I	nfill ¹⁴ Cor	solidation Cod	on Code ¹⁵ Order No.								
	022 ode 5 10. 3 Section 16 Section 9	ode 5 5 5 5 5 5 5 5 5 5 5 5 5	022 ode 5 10. 3 16 25-S 26-E 11 Section 9 25-S 26-E 11 Range 11 25-S 26-E	O22 98220 ode	O22 98220 ode 5Property N SCHLITZ F SCHLITZ F io. 8Operator N 3 TAP ROCK OPEN 3 TAP ROCK OPEN 10 Surface Lot 16 25-S 26-E - 11 Bottom Hole Location If D Section Township 25-S 26-E 25-S 26-E 26-E - 200'	O22 98220 PURPL ode 5Property Name SCHLITZ FED COM io. SCHLITZ FED COM io. 8Operator Name :3 TAP ROCK OPERATING, LLC. 10 Surface Location Section Township 25-S 26-E 11 Bottom Hole Location If Different From Surface Section Section Township 8 26-E 11 Bottom Hole Location If Different From Surface Section 9 25-S 26-E - 200' NORTH	022 98220 PURPLE SAGE; M *Property Name SCHLITZ FED COM io. *SOperator Name 3 TAP ROCK OPERATING, LLC. ***********************************	022 98220 PURPLE SAGE; WOLFCA ***********************************	022 98220 PURPLE SAGE; WOLFCAMP ((ode 5Property Name 6V SCHLITZ FED COM 6V io. 8Operator Name 3 TAP ROCK OPERATING, LLC. 10Surface Location Section Township 25-S 26-E - 620' SOUTH 10Surface Location 10Surface Location 10Surface Location Section Township 26-E - 620' SOUTH 1001' WEST 11Bottom Hole Location If Different From Surface Section Township Range Lot Idn Feet from the North/South line Feet from the East/West line 9 25-S 26-E - 200' NORTH 1980' WEST		

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.



Released to Imaging: 11/1/2021 7:57:47 AM

S:\SURVEY\TAPROCK\SCHLITZ_UNIT\FINAL_PRODUCTS\LO_SCHLITZ_FED_COM_202H.DWG 10/2/2020 8:03:19 AM kmatt

State of New Mexico Energy, Minerals and Natural Resources Department

Submit Electronically Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description Effective May 25, 2021

I. Operator: Tap Rock Operating LLC OGRID: 372043 Date: 10/21/2021

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
Schlitz Fed Com #202H		Sec 16, T25S R 26E	620 FSL, 1001 FWL	1295	2714	3302

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

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

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Schlitz Fed Com #202H		5/3/22	5/11/22	7/18/22	8/25/22	8/25/22

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

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

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

Section 2 – Enhanced Plan EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

XI. Map. \Box 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 \Box will \Box will not have capacity to gather 100% of the anticipated natural gas production volume from the well prior to the date of first production.

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

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

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

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

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

 \boxtimes 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

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

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

Section 4 - Notices

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

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

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

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

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

Signature:
Printed Name: Jeff Trlica
Title: Regulatory Analyst
E-mail Address: jtrlica@taprk.com
Date: 10/21/2021
Phone: 720-772-5910
OIL CONSERVATION DIVISION (Only applicable when submitted as a standalone form)
Approved By:
Approved By: Title:
Title:
Title: Approval Date:
Title: Approval Date:
Title: Approval Date:

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

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

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

- During drilling operations- Gas meters will be installed at the shakers and Volume Totalizers will be installed on the pits. In the event that elevated gas levels, or a pit gain are observed, returns will be diverted to a gas buster. Gas coming off the gas buster will be combusted at the flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During completions operations, including stimulation and frac plug drill out operations, hydrocarbon production to surface is minimized. When gas production does occur, gas will be combusted at a flare stack. A 10' or taller flare will be located at least 100' from the SHL.
- During production operations, all process vessels (separators, heater treaters, VRTs, Tanks) will recompress (where necessary) and route gas outlets into the natural gas gathering pipeline. Gas will preferentially be routed to natural gas gathering pipeline and the flare system will be used only during emergency, malfunction, or if the gas does not meet pipeline specifications. In the event of flaring off-specification gas, operations will pull gas samples twice a week and will also route gas back to pipeline as soon as the gas meets specification. Exceptions to this will include only those qualified exceptions per the regulation 19.15.27.8 Subsection D.

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

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

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



Elevation above Sea Level: 3429'

DRILLING PROGRAM

1. Estimated Tops

Formation	TVD	MD	Lithologies	Bearing
Quaternary Deposits	0	0	Surface	None
Rustler Anhydrite	495	495		Salt
Salado	940	940	Salt	Salt
Base Salt	1675	1675		Salt
Lamar	1880	1880	Limestone	None
Bell Canyon	1930	1930	Sandstone	Hydrocarbons
Cherry Canyon	2890	2891	Sandstone	Hydrocarbons
Brushy Canyon	3800	3819	Sandstone	Hydrocarbons
Bone Spring	5445	5509	Limestone	Hydrocarbons
1st Bone Spring	6375	6464	Sandstone	Hydrocarbons
2nd Bone Spring	6665	6762	Sandstone	Hydrocarbons
3rd Bone Spring	7220	7332	Sandstone	Hydrocarbons
КОР	8052	8170	Sandstone	Hydrocarbons
Wolfcamp A Y Sand	8575	8829	Shale	Hydrocarbons
TD	8625	18809	Shale	Hydrocarbons

2. Notable Zones

Wolfcamp A is the target formation.

3. Pressure Control

Pressure Control Equipment (See Schematics):

A 15,000', 5,000 psi BOP stack consisting of 3 rams with 2 pipe rams, 1 blind ram, and 1 annular preventer will be used below surface casing to TD. See attachments for BOP and choke manifold diagrams. Also present will be an accumulator that meets the requirements of Onshore Order #2 for the pressure rating of the BOP stack. A rotating head will also be installed as needed. BOP will be inspected and operated as recommended in Onshore Order #2. A top drive check valve and sub equipped with a full opening valve sized to fit the drill pipe and collars will be available on the rig floor in the open position. The wellhead will be a multi-bowl speed head.



BOP Test procedure will be as follows:

After surface casing is set and the BOP is nippled up, the BOP pressure tests will be made with a third party tester to 250 psi low, 5000 psi high, and the annular preventer will be tested to 2,500 psi. The BOP will be tested in this manner after nipple-up if any break of the stack occurs.

Variance Requests:

Tap Rock requests a variance to run a multi-bowl speed head for setting the Intermediate 1, Intermediate 2, 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. In the event that this well is batch drilled, after drilling surface, 1st intermediate, and 2nd intermediate hole sections and cementing 2nd intermediate casing, a 10M dry hole cap with bleed off valve will be installed. The rig will then walk to another well on the pad. When the rig returns to this well and BOPs are installed, the operator will perform a full BOP test. Tap Rock requests a variance to run 7-5/8" BTC casing inside 9-5/8" BTC casing will be less than the 0.422" stand off regulation. Through conversations with BLM representatives, Tap Rock has received approval for this design as long as the 7-5/8" flush casing was run throughout the entire 300' cement tie back section between 9-5/8" and 7-5/8" casing.

Tap Rock requests approval to possibly utilize a spudder rig to drill and set casing for the surface interval on this well. The spudder rig will be possibly utilized in order to reduce cost and save time. The wellhead will be installed and tested as soon as the surface casing is cut off per the existing COAs. A blind flange with the same pressure rating as the wellhead will be installed on the well. Once the spudder rig is removed, Tap Rock will secure the wellhead area by placing a guard rail around the cellar. Pressure will be monitored and a means for intervention will be maintained while the drilling rig is not over the well. Spudder rig operations are expected to take 2-3 days per well. Three wells on the pad will have surface casing set by the spudder rig as a part of this operation. The BLM will be notified 24 hours prior to commencing spudder rig operations. Within 90 days of the departure of the spudder rig, drilling operations will recommence on these wells. This rig will have a BOP stack equal or greater to the pressure rating required in the COAs. The BLM will be notified 24 hours before the larger rig moves on the pre-set wells. Tap Rock will have supervision on the spudder rig to ensure compliance with all BLM and NMOCD regulations.



4. Casing & Cement

All Casing will be new.

Name	Hole Size	Casing Size	Standard	Tapered	Top MD	Bottom MD	Top TVD	BTM TVD	Grade	Weight	Thread	Collapse	Burst	Tension
Surface	17 1/2	13 3/8	API	No	0	570	0	570	J-55	54.5	BUTT	1.13	1.15	1.6
1st Intermediate	12 1/4	9 5/8	API	No	0	1900	0	1900	J-55	40	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	API	No	0	1600	0	1600	P-110	29.7	BUTT	1.13	1.15	1.6
2nd Intermediate	8 3/4	7 5/8	NON API	Yes	1600	8070	1600	7952	P-110	29.7	W-513	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	No	0	7870	0	7752	P-110	20	TXP	1.13	1.15	1.6
Production	6 3/4	5 1/2	NON API	Yes	7870	18809	7752	8625	P-110	20	W-441	1.13	1.15	1.6

Name	Туре	Top MD	Sacks	Yield	Cu. Ft	Weight	Excess	Cement	Additives
Surface	Tail	0	587	1.35	792	14.8	100%	С	5% NCI + LCM
1st Intermediate	Lead	0	451	1.74	785	13.5	65%	С	Bentonite + 1% CaCL2 + 8% NaCl + LCM
1st intermediate	Tail	1520	148	1.33	196	14.8	65%	С	5% NaCl + LCM
2nd Intermediate	Lead	1600	334	2.22	742	11.5	35%	TXI	Fluid Loss + Dispersant + Retarder + LCM
2nd intermediate	Tail	7070	99	1.37	136	13.2	35%	Н	Fluid Loss + Dispersant + Retarder + LCM
Production	Tail	7370	1047	1.14	1194	14.5	25%	Н	Fluid Loss + Dispersant + Retarder + LCM

5. Mud Program

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

Name	Тор	Bottom	Туре	Mud Weight	Visc	Fluid Loss
Surface	0	570	FW Spud Mud	8.30	28	NC
Intermediate	570	1900	Brine Water	10.00	30-32	NC
Intermediate 2	1900	8070	FW/Cut Brine	9.00	30-32	NC
Production	8070	18809	Oil Base Mud	11.50	50-70	<10

6. Cores, Tests, & Logs

- Electric Logging Program: No open-hole logs are planned at this time for the pilot hole.
- GR will be collected while drilling through the MWD tools from 9.625" casing shoe to TD.
- A 2-person mud logging program will be used from 9.625" casing shoe to TD.
- No DSTs or cores are planned at this time.
- CBL w/ CCL from as far as gravity will let it fall to TOC.



7. Down Hole Conditions

No abnormal pressure or temperature is expected. Maximum expected bottom hole pressure is \approx 5,157 psi. Expected bottom hole temperature is \approx 160° F.

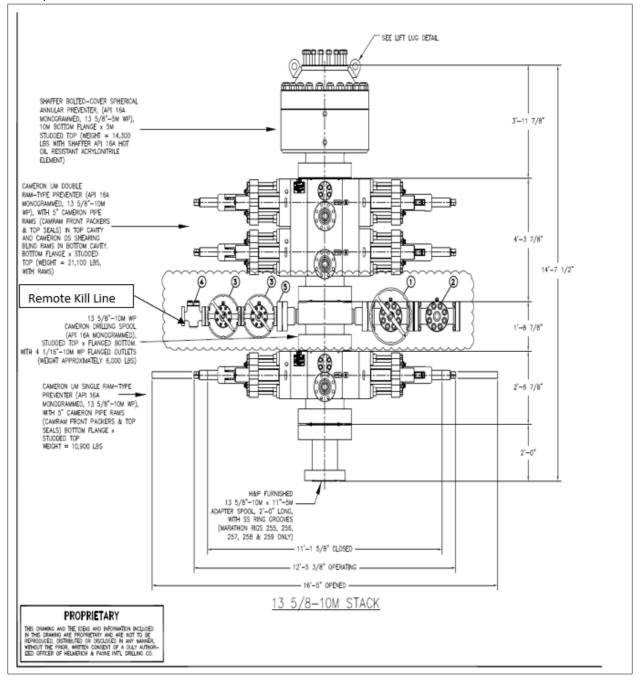
Tap Rock does not anticipate that there will be enough H2S from the surface to the Wolfcamp formations to meet the BLM's Onshore Order 6 requirements for the submission of an "H2S Drilling Operation Plan" or "Public Protection Plan" for drilling and completing this well. Tap Rock has an H2S safety package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

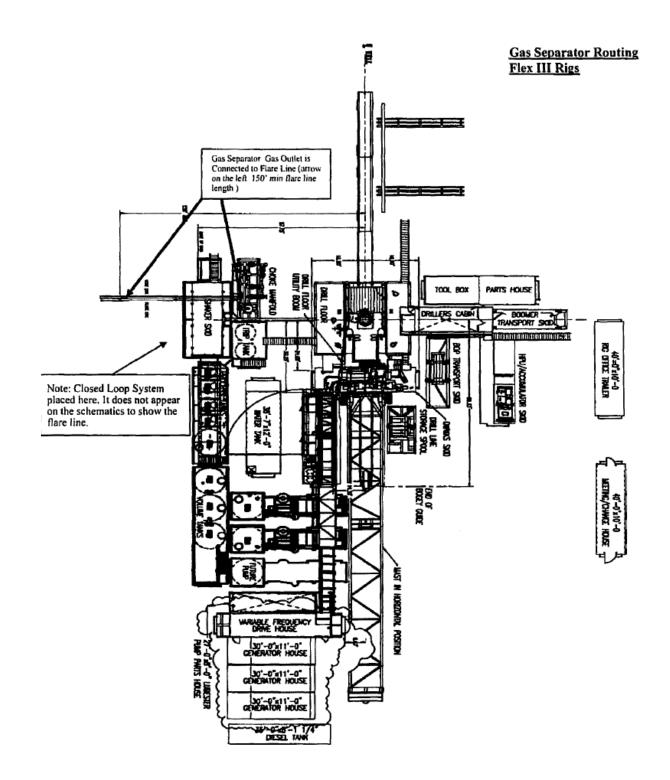
8. Other Information

Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved. Drilling expected to take 30 days. If production casing is run an additional 60 days will be required to complete and construct surface facilities.



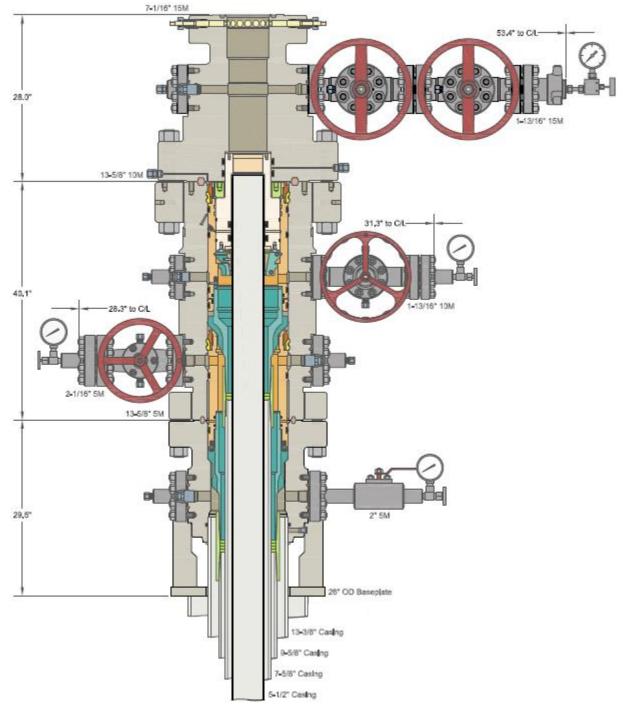
5,000 psi BOP Stack



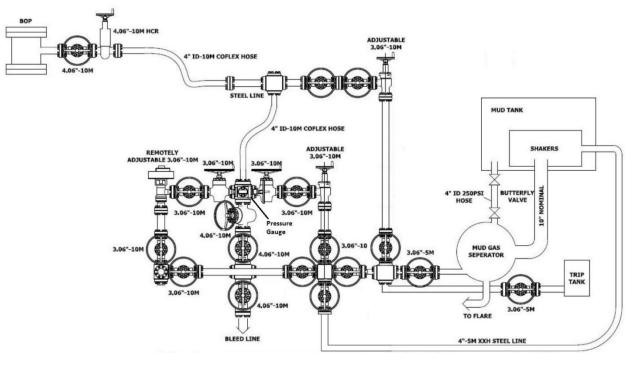








10M Choke Layout



TAP ROCK RESOURCES

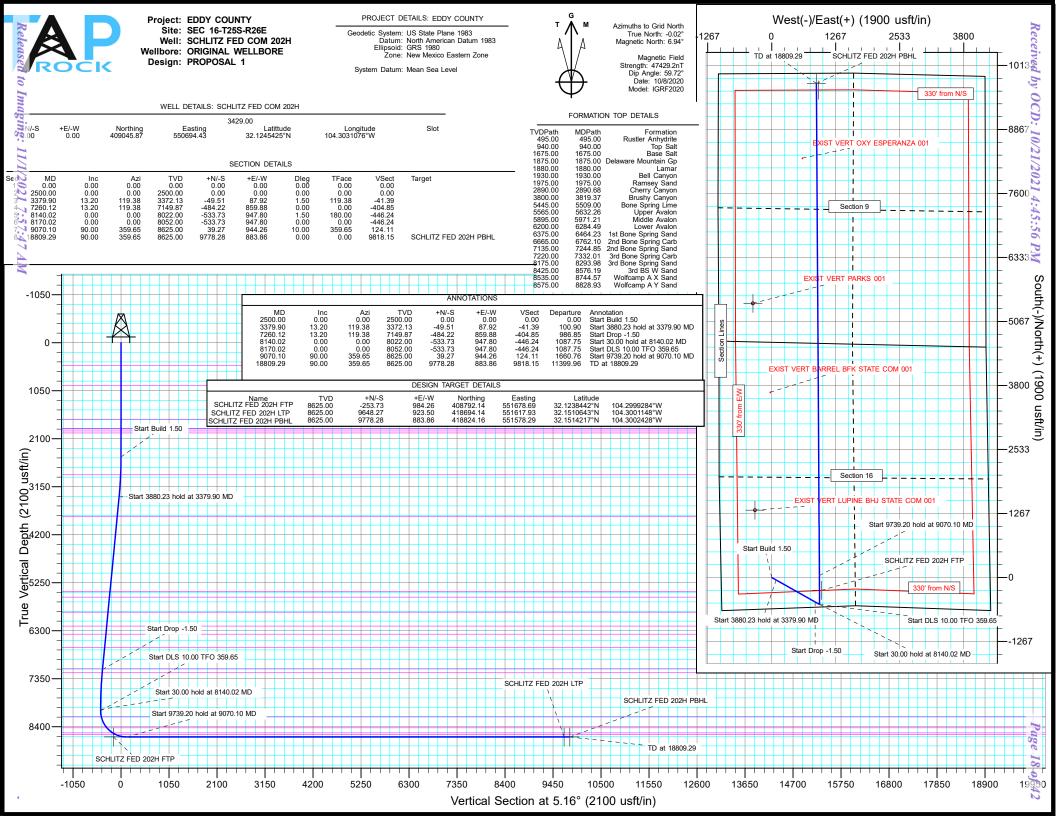
EDDY COUNTY SEC 16-T25S-R26E SCHLITZ FED COM 202H

ORIGINAL WELLBORE

Plan: PROPOSAL 1

Standard Planning Report

13 October, 2020



Database: Company: Project: Site: Well: Wellbore: Design:	TAP R EDDY SEC 1 SCHL ORIG	5000.16 Single COCK RESOURTY COUNTY 16-T25S-R26E ITZ FED COM 2 INAL WELLBOF POSAL 1	CES 202H		TVD Refere MD Refere North Refe	nce:		Well SCHLITZ F KB 25.5 @ 345- KB 25.5 @ 345- Grid Minimum Curva	4.50usft 4.50usft	1
Project	EDDY	COUNTY								
Map System: Geo Datum: Map Zone:	North An	e Plane 1983 nerican Datum ′ xico Eastern Zo			System Dat	um:	M	ean Sea Level		
Site	SEC 16	6-T25S-R26E								
Site Position: From: Position Uncerta	Map Map	0.00 u	Northi Eastin Isft Slot R	g:	552,3		Latitude: Longitude:			32.1230042°N 104.2977510°W
Well	SCHLIT	Z FED COM 20)2H							
Well Position Position Uncerta Grid Convergenc	•	0.0	0 usft Ea 0 usft We	rthing: sting: Ilhead Elevat	ion:	409,045.87 550,694.43	usft Lor	itude: ngitude: bund Level:		32.1245425°N 104.3031076°W 3,429.00 usft
Wellbore	ORIGI	NAL WELLBOF	RE							
Magnetics	Mo	del Name	Sample	e Date	Declinat (°)	tion	-	Angle °)		trength IT)
		IGRF2020		10/8/2020		6.95		59.72	47,4	29.19719386
Design	PROPO	DSAL 1								
Audit Notes:										
Version:			Phase	9: F	PROTOTYPE	Tie	On Depth:		0.00	
Vertical Section:		D	epth From (TV	D)	+N/-S	+E/		Dir	rection	
			(usft) 0.00		(usft) 0.00	(us 0.0		ť	(°) 5.16	
Plan Survey Too Depth Froi (usft) 1 0.	m Depti (us	h To	10/13/2020 (Wellbore) SAL 1 (ORIGII	NAL WELL	Tool Name MWD OWSG MWD -	Standard	Remarks			
Plan Sections										
Measured Depth I (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00 2,500.00 3,379.90 7,260.12 8,140.02 8,170.02	0.00 0.00 13.20 13.20 0.00 0.00	0.00 0.00 119.38 119.38 0.00 0.00	0.00 2,500.00 3,372.13 7,149.87 8,022.00 8,052.00	0.00 0.00 -49.51 -484.22 -533.73 -533.73	0.00 0.00 87.92 859.88 947.80 947.80	0.00 0.00 1.50 0.00 1.50 0.00	0.00 0.00 1.50 0.00 -1.50 0.00	0.00 0.00 0.00 0.00	0.00 0.00 119.38 0.00 180.00 0.00	
9,070.10 18,809.29	90.00 90.00	359.65 359.65	8,625.00 8,625.00	39.27 9,778.28	944.26 883.86	10.00 0.00	10.00 0.00		359.65 0.00	SCHLITZ FED 202H I

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Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 202H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3454.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3454.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey

	(°)	(°)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Section (usft)	Rate (°/100ft)	Rate (°/100ft)	Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
495.00	0.00	0.00	495.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler Anhy									
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
940.00	0.00	0.00	940.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt	0.00	0.00	940.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,675.00	0.00	0.00	1,675.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,875.00	0.00	0.00	1,875.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware Mo									
1,880.00	0.00	0.00	1,880.00	0.00	0.00	0.00	0.00	0.00	0.00
Lamar	0.00	0.00	4 000 00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,930.00	0.00	0.00	1,930.00	0.00	0.00	0.00	0.00	0.00	0.00
Bell Canyon									
1,975.00	0.00	0.00	1,975.00	0.00	0.00	0.00	0.00	0.00	0.00
Ramsey San		0.00	0 000 00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1									
2,600.00	1.50	119.38	2,599.99	-0.64	1.14	-0.54	1.50	1.50	0.00
2,700.00	3.00	119.38	2,699.91	-2.57	4.56	-2.15	1.50	1.50	0.00
2,800.00	4.50	119.38	2,799.69	-5.78	10.26	-4.83	1.50	1.50	0.00
2,890.68	5.86	119.38	2,890.00	-9.79	17.39	-8.19	1.50	1.50	0.00
Cherry Cany									
2,900.00	6.00	119.38	2,899.27	-10.27	18.23	-8.58	1.50	1.50	0.00
3,000.00	7.50	119.38	2,998.57	-16.03	28.47	-13.41	1.50	1.50	0.00
3,100.00	9.00	119.38	3,097.54	-23.08	40.98	-19.29	1.50	1.50	0.00
3,200.00	10.50	119.38	3,196.09	-31.38	55.73	-26.24	1.50	1.50	0.00
3,300.00	12.00	119.38	3,294.16	-40.96	72.73	-34.24	1.50	1.50	0.00
3,379.90	13.20	119.38	3,372.13	-49.51	87.92	-41.39	1.50	1.50	0.00

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atabase: ompany: roject: ite: /ell: /ellbore: esign:	EDM 5000.16 TAP ROCK RI EDDY COUNT SEC 16-T25S SCHLITZ FED ORIGINAL WE PROPOSAL 1	TY -R26E) COM 202H ELLBORE		TVD Re MD Re North F	Co-ordinate Re eference: ference: Reference: • Calculation M		Well SCHLITZ FED COM 202H KB 25.5 @ 3454.50usft KB 25.5 @ 3454.50usft Grid Minimum Curvature		
Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,400.00 3,500.00	13.20 13.20	119.38 119.38	3,391.71 3,489.07	-51.76 -62.96	91.92 111.81	-43.28 -52.64	0.00 0.00	0.00 0.00	0.00 0.00
3,600.00 3,700.00 3,800.00 3,819.37	13.20 13.20 13.20 13.20	119.38 119.38 119.38 119.38	3,586.42 3,683.78 3,781.14 3,800.00	-74.17 -85.37 -96.57 -98.74	131.71 151.60 171.50 175.35	-62.01 -71.38 -80.74 -82.56	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
Brushy Car 3,900.00	n yon 13.20	119.38	3,878.50	-107.78	191.39	-90.11	0.00	0.00	0.00
4,000.00 4,100.00 4,200.00 4,300.00 4,400.00	13.20 13.20 13.20 13.20 13.20 13.20	119.38 119.38 119.38 119.38 119.38 119.38	3,975.86 4,073.22 4,170.58 4,267.93 4,365.29	-118.98 -130.18 -141.39 -152.59 -163.79	211.29 231.18 251.08 270.97 290.87	-99.48 -108.84 -118.21 -127.58 -136.95	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	13.20 13.20 13.20 13.20 13.20 13.20	119.38 119.38 119.38 119.38 119.38 119.38	4,462.65 4,560.01 4,657.37 4,754.73 4,852.09	-175.00 -186.20 -197.40 -208.61 -219.81	310.76 330.65 350.55 370.44 390.34	-146.31 -155.68 -165.05 -174.41 -183.78	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 5,300.00 5,400.00	13.20 13.20 13.20 13.20 13.20 13.20 13.20	119.38 119.38 119.38 119.38 119.38 119.38	4,949.44 5,046.80 5,144.16 5,241.52 5,338.88	-231.01 -242.22 -253.42 -264.62 -275.83	410.23 430.13 450.02 469.92 489.81	-193.15 -202.51 -211.88 -221.25 -230.61	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
5,500.00	13.20	119.38	5,436.24	-287.03	509.71	-239.98	0.00	0.00	0.00
5,509.00 Bone Sprin	13.20	119.38	5,445.00	-288.04	511.50	-240.82	0.00	0.00	0.00
5,600.00 5,632.26	13.20 13.20	119.38 119.38	5,533.59 5,565.00	-298.23 -301.85	529.60 536.02	-249.35 -252.37	0.00 0.00	0.00 0.00	0.00 0.00
Upper Aval 5,700.00	on 13.20	119.38	5,630.95	-309.44	549.50	-258.72	0.00	0.00	0.00
5,800.00 5,900.00 5,971.21 Middle Ava	13.20 13.20 13.20	119.38 119.38 119.38 119.38	5,728.31 5,825.67 5,895.00	-320.64 -331.84 -339.82	569.39 589.29 603.46	-268.08 -277.45 -284.12	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
6,000.00 6,100.00	13.20 13.20	119.38 119.38	5,923.03 6,020.39	-343.05 -354.25	609.18 629.08	-286.82 -296.18	0.00 0.00	0.00 0.00	0.00 0.00
6,200.00 6,284.49	13.20 13.20	119.38 119.38	6,117.75 6,200.00	-365.45 -374.92	648.97 665.78	-305.55 -313.46	0.00 0.00	0.00 0.00	0.00 0.00
Lower Aval 6,300.00 6,400.00 6,464.23	on 13.20 13.20 13.20	119.38 119.38 119.38	6,215.10 6,312.46 6,375.00	-376.66 -387.86 -395.06	668.87 688.76 701.54	-314.92 -324.28 -330.30	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
1st Bone S									
6,500.00 6,600.00 6,700.00 6,762.10	13.20 13.20 13.20 13.20	119.38 119.38 119.38 119.38	6,409.82 6,507.18 6,604.54 6,665.00	-399.06 -410.27 -421.47 -428.43	708.66 728.55 748.45 760.80	-333.65 -343.02 -352.38 -358.20	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
	Spring Carb	440.00	6 704 00	400.07	700.04	004 75	0.00	0.00	0.00
6,800.00 6,900.00 7,000.00 7,100.00	13.20 13.20 13.20 13.20 13.20	119.38 119.38 119.38 119.38 119.38	6,701.90 6,799.26 6,896.61 6,993.97 7,001.33	-432.67 -443.88 -455.08 -466.28	768.34 788.24 808.13 828.03	-361.75 -371.12 -380.49 -389.85 200.22	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00

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7,200.00

-477.49

847.92

-399.22

0.00

0.00

7,091.33

COMPASS 5000.16 Build 96

0.00

13.20

119.38

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 202H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3454.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3454.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
7,244.85	13.20	119.38	7,135.00	-482.51	856.85	-403.42	0.00	0.00	0.00
2nd Bone Sp	oring Sand								
7,260.12	13.20	119.38	7,149.87	-484.22	859.88	-404.85	0.00	0.00	0.00
Start Drop -			,						
7,300.00	12.60	119.38	7,188.74	-488.59	867.64	-408.50	1.50	-1.50	0.00
7,332.01	12.12	119.38	7,220.00	-491.95	873.61	-411.31	1.50	-1.50	0.00
3rd Bone Sp	oring Carb								
7,400.00	11.10	119.38	7,286.60	-498.67	885.53	-416.93	1.50	-1.50	0.00
7,500.00	9.60	119.38	7,384.97	-507.48	901.19	-424.30	1.50	-1.50	0.00
7,600.00	8.10	119.38	7,483.78	-515.03	914.59	-430.61	1.50	-1.50	0.00
7,700.00	6.60	119.38	7,582.95	-521.31	925.74	-435.86	1.50	-1.50	0.00
7,800.00	5.10	119.38	7,682.43	-526.31	934.62	-440.04	1.50	-1.50	0.00
7,900.00	3.60	119.38	7,782.14	-530.03	941.23	-443.15	1.50	-1.50	0.00
8,000.00	2.10	119.38	7,882.01	-532.47	945.56	-445.19	1.50	-1.50	0.00
8,100.00	0.60	119.38	7,981.98	-533.63	947.62	-446.16	1.50	-1.50	0.00
8,140.02	0.00	0.00	8,022.00	-533.73	947.80	-446.24	1.50	-1.50	0.00
Start 30.00 h	old at 8140.02 N	ID							
8,170.02	0.00	0.00	8,052.00	-533.73	947.80	-446.24	0.00	0.00	0.00
Start DLS 10	.00 TFO 359.65								
8,200.00	3.00	359.65	8,081.97	-532.95	947.80	-445.46	10.00	10.00	0.00
8,250.00	8.00	359.65	8,131.72	-528.16	947.77	-440.70	10.00	10.00	0.00
8,293.98	12.40	359.65	8,175.00	-520.37	947.72	-432.95	10.00	10.00	0.00
3rd Bone Sp	ring Sand								
8,300.00	13.00	359.65	8,180.87	-519.05	947.71	-431.63	10.00	10.00	0.00
8,350.00	18.00	359.65	8,229.04	-505.70	947.63	-418.34	10.00	10.00	0.00
8,400.00	23.00	359.65	8,275.86	-488.19	947.52	-400.92	10.00	10.00	0.00
8,450.00	28.00	359.65	8,320.97	-466.68	947.39	-379.50	10.00	10.00	0.00
8,500.00	33.00	359.65	8,364.04	-441.31	947.23	-354.25	10.00	10.00	0.00
8,550.00	38.00	359.65	8,404.74	-412.29	947.05	-325.37	10.00	10.00	0.00
8,576.19	40.61	359.65	8,425.00	-395.70	946.95	-308.86	10.00	10.00	0.00
3rd BS W Sa	ind								
8,600.00	42.99	359.65	8,442.75	-379.83	946.85	-293.06	10.00	10.00	0.00
8,650.00	47.99	359.65	8,477.79	-344.19	946.63	-257.57	10.00	10.00	0.00
8,700.00	52.99	359.65	8,509.58	-305.62	946.39	-219.19	10.00	10.00	0.00
8,744.57	57.45	359.65	8,535.00	-269.02	946.16	-182.76	10.00	10.00	0.00
Wolfcamp A	X Sand								
8,750.00	57.99	359.65	8,537.90	-264.43	946.14	-178.19	10.00	10.00	0.00
8,800.00	62.99	359.65	8,562.52	-220.93	945.87	-134.89	10.00	10.00	0.00
8,828.93	65.89	359.65	8,575.00	-194.83	945.71	-108.91	10.00	10.00	0.00
Wolfcamp A	Y Sand								
8,850.00	67.99	359.65	8,583.25	-175.45	945.59	-89.62	10.00	10.00	0.00
8,900.00	72.99	359.65	8,599.94	-128.34	945.30	-42.72	10.00	10.00	0.00
8,950.00	77.99	359.65	8,612.46	-79.95	945.00	5.45	10.00	10.00	0.00
9,000.00	82.99	359.65	8,620.72	-30.65	944.69	54.51	10.00	10.00	0.00
9,050.00	87.99	359.65	8,624.65	19.18	944.38	104.11	10.00	10.00	0.00
9,070.10	90.00	359.65	8,625.00	39.27	944.26	124.11	10.00	10.00	0.00
	0 hold at 9070.10		0,020.00	55.27	077.20	127.11	10.00	10.00	0.00
9,100.00	90.00	359.65	8,625.00	69.17	944.08	153.88	0.00	0.00	0.00
9,200.00	90.00	359.65	8,625.00	169.17	943.46	253.41	0.00	0.00	0.00
9,300.00	90.00	359.65	8,625.00	269.17	942.84	352.95	0.00	0.00	0.00
9,400.00	90.00	359.65	8,624.99	369.17	942.22	452.49	0.00	0.00	0.00
9,500.00	90.00	359.65	8,624.99	469.17	941.60	552.02	0.00	0.00	0.00

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COMPASS 5000.16 Build 96

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 202H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3454.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3454.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey

Measu Dept (usft	h	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9.60	00.00	90.00	359.65	8,624.99	569.16	940.99	651.56	0.00	0.00	0.00
,	00.00	90.00	359.65	8,624.99	669.16	940.37	751.10	0.00	0.00	0.00
	00.00	90.00	359.65	8,624.99	769.16	939.75	850.63	0.00	0.00	0.00
	00.00	90.00	359.65	8,624.98	869.16	939.13	950.17	0.00	0.00	0.00
5,50	0.00	30.00	555.05	0,024.30	003.10	303.10	350.17	0.00	0.00	0.00
10,00	00.00	90.00	359.65	8,624.98	969.16	938.52	1,049.71	0.00	0.00	0.00
10,10	00.00	90.00	359.65	8,624.98	1,069.15	937.90	1,149.24	0.00	0.00	0.00
10,20	00.00	90.00	359.65	8,624.98	1,169.15	937.28	1,248.78	0.00	0.00	0.00
10,30	00.00	90.00	359.65	8,624.98	1,269.15	936.66	1,348.31	0.00	0.00	0.00
10,40		90.00	359.65	8,624.97	1,369.15	936.04	1,447.85	0.00	0.00	0.00
-						005.40				
10,50		90.00	359.65	8,624.97	1,469.15	935.43	1,547.39	0.00	0.00	0.00
10,60		90.00	359.65	8,624.97	1,569.15	934.81	1,646.92	0.00	0.00	0.00
10,70		90.00	359.65	8,624.97	1,669.14	934.19	1,746.46	0.00	0.00	0.00
10,80	00.00	90.00	359.65	8,624.97	1,769.14	933.57	1,846.00	0.00	0.00	0.00
10,90	00.00	90.00	359.65	8,624.97	1,869.14	932.96	1,945.53	0.00	0.00	0.00
11,00	00 00	90.00	359.65	8,624.96	1,969.14	932.34	2,045.07	0.00	0.00	0.00
11,10		90.00	359.65	8,624.96 8,624.96	2,069.14	932.34 931.72	2,045.07 2,144.61	0.00	0.00	0.00
		90.00 90.00	359.65 359.65			931.72 931.10		0.00	0.00	0.00
11,20				8,624.96	2,169.13		2,244.14			
11,30		90.00	359.65	8,624.96	2,269.13	930.48	2,343.68	0.00	0.00	0.00
11,40	00.00	90.00	359.65	8,624.96	2,369.13	929.87	2,443.22	0.00	0.00	0.00
11,50	00.00	90.00	359.65	8,624.95	2,469.13	929.25	2,542.75	0.00	0.00	0.00
11,60		90.00	359.65	8,624.95	2,569.13	928.63	2,642.29	0.00	0.00	0.00
11,70		90.00	359.65	8,624.95	2,669.12	928.01	2,741.83	0.00	0.00	0.00
11,80		90.00	359.65	8,624.95	2,769.12	927.39	2,841.36	0.00	0.00	0.00
11,90		90.00	359.65	8,624.95	2,869.12	926.78	2,940.90	0.00	0.00	0.00
11,90	0.00	90.00	559.05	0,024.90	2,009.12	920.70	2,940.90	0.00	0.00	0.00
12,00	00.00	90.00	359.65	8,624.94	2,969.12	926.16	3,040.44	0.00	0.00	0.00
12,10	00.00	90.00	359.65	8,624.94	3,069.12	925.54	3,139.97	0.00	0.00	0.00
12,20	00.00	90.00	359.65	8,624.94	3,169.11	924.92	3,239.51	0.00	0.00	0.00
12,30	00.00	90.00	359.65	8,624.94	3,269.11	924.31	3,339.04	0.00	0.00	0.00
12,40	00.00	90.00	359.65	8,624.94	3,369.11	923.69	3,438.58	0.00	0.00	0.00
40.50	0.00	00.00	250.05	0.004.00	2 400 44	000.07	2 520 40	0.00	0.00	0.00
12,50		90.00	359.65	8,624.93	3,469.11	923.07	3,538.12	0.00	0.00	0.00
12,60		90.00	359.65	8,624.93	3,569.11	922.45	3,637.65	0.00	0.00	0.00
12,70		90.00	359.65	8,624.93	3,669.11	921.83	3,737.19	0.00	0.00	0.00
12,80		90.00	359.65	8,624.93	3,769.10	921.22	3,836.73	0.00	0.00	0.00
12,90	00.00	90.00	359.65	8,624.93	3,869.10	920.60	3,936.26	0.00	0.00	0.00
13,00	00 00	90.00	359.65	8,624.93	3,969.10	919.98	4,035.80	0.00	0.00	0.00
13,10		90.00	359.65	8,624.92	4,069.10	919.36	4,135.34	0.00	0.00	0.00
13,20		90.00	359.65	8,624.92	4,169.10	918.75	4,234.87	0.00	0.00	0.00
13,30		90.00	359.65	8,624.92	4,269.09	918.13	4,334.41	0.00	0.00	0.00
13,40		90.00	359.65	8,624.92	4,209.09	918.13	4,334.41	0.00	0.00	0.00
13,50		90.00	359.65	8,624.92	4,469.09	916.89	4,533.48	0.00	0.00	0.00
13,60	00.00	90.00	359.65	8,624.91	4,569.09	916.27	4,633.02	0.00	0.00	0.00
13,70	00.00	90.00	359.65	8,624.91	4,669.09	915.66	4,732.56	0.00	0.00	0.00
13,80	00.00	90.00	359.65	8,624.91	4,769.08	915.04	4,832.09	0.00	0.00	0.00
13,90	00.00	90.00	359.65	8,624.91	4,869.08	914.42	4,931.63	0.00	0.00	0.00
14.00		90.00	359.65	8,624.91	4.969.08	012 00	5,031.17	0.00	0.00	0.00
,		90.00 90.00	359.65 359.65	,	,	913.80	5,031.17 5,130.70	0.00 0.00	0.00	0.00
14,10				8,624.90	5,069.08	913.19				
14,20		90.00	359.65	8,624.90	5,169.08	912.57	5,230.24	0.00	0.00	0.00
14,30		90.00	359.65	8,624.90	5,269.07	911.95	5,329.77	0.00	0.00	0.00
14,40	00.00	90.00	359.65	8,624.90	5,369.07	911.33	5,429.31	0.00	0.00	0.00
14,50	00.00	90.00	359.65	8,624.90	5,469.07	910.71	5,528.85	0.00	0.00	0.00
14,60		90.00	359.65	8,624.89	5,569.07	910.10	5,628.38	0.00	0.00	0.00
14,70		90.00	359.65	8,624.89	5,669.07	909.48	5,727.92	0.00	0.00	0.00
14,80		90.00	359.65	8,624.89	5,769.07	908.86	5,827.46	0.00	0.00	0.00
14,90		90.00	359.65	8,624.89	5,869.06	908.24	5,926.99	0.00	0.00	0.00
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COMPASS 5000.16 Build 96

Database:	EDM 5000.16 Single User Db	Local Co-ordinate Reference:	Well SCHLITZ FED COM 202H
Company:	TAP ROCK RESOURCES	TVD Reference:	KB 25.5 @ 3454.50usft
Project:	EDDY COUNTY	MD Reference:	KB 25.5 @ 3454.50usft
Site:	SEC 16-T25S-R26E	North Reference:	Grid
Well:	SCHLITZ FED COM 202H	Survey Calculation Method:	Minimum Curvature
Wellbore:	ORIGINAL WELLBORE		
Design:	PROPOSAL 1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
15,000.00	90.00	359.65	8,624.89	5,969.06	907.63	6,026.53	0.00	0.00	0.00
15,100.00	90.00	359.65	8,624.89	6,069.06	907.01	6,126.07	0.00	0.00	0.00
15,200.00	90.00	359.65	8,624.88	6,169.06	906.39	6,225.60	0.00	0.00	0.00
15,300.00	90.00	359.65	8,624.88	6,269.06	905.77	6,325.14	0.00	0.00	0.00
15,400.00	90.00	359.65	8,624.88	6,369.05	905.15	6,424.68	0.00	0.00	0.00
15,500.00	90.00	359.65	8,624.88	6,469.05	904.54	6,524.21	0.00	0.00	0.00
15,600.00	90.00	359.65	8,624.88	6,569.05	903.92	6,623.75	0.00	0.00	0.00
15,700.00	90.00	359.65	8,624.87	6,669.05	903.30	6,723.29	0.00	0.00	0.00
15,800.00	90.00	359.65	8,624.87	6,769.05	902.68	6,822.82	0.00	0.00	0.00
15,900.00	90.00	359.65	8,624.87	6,869.04	902.07	6,922.36	0.00	0.00	0.00
16,000.00	90.00	359.65	8,624.87	6,969.04	901.45	7,021.90	0.00	0.00	0.00
16,100.00	90.00	359.65	8,624.87	7,069.04	900.83	7,121.43	0.00	0.00	0.00
16,200.00	90.00	359.65	8,624.86	7,169.04	900.21	7,220.97	0.00	0.00	0.00
16,300.00	90.00	359.65	8,624.86	7,269.04	899.59	7,320.50	0.00	0.00	0.00
16,400.00	90.00	359.65	8,624.86	7,369.03	898.98	7,420.04	0.00	0.00	0.00
16,500.00	90.00	359.65	8,624.86	7,469.03	898.36	7,519.58	0.00	0.00	0.00
16,600.00	90.00	359.65	8,624.86	7,569.03	897.74	7,619.11	0.00	0.00	0.00
16,700.00	90.00	359.65	8,624.85	7,669.03	897.12	7,718.65	0.00	0.00	0.00
16,800.00	90.00	359.65	8,624.85	7,769.03	896.51	7,818.19	0.00	0.00	0.00
16,900.00	90.00	359.65	8,624.85	7,869.03	895.89	7,917.72	0.00	0.00	0.00
17,000.00	90.00	359.65	8,624.85	7,969.02	895.27	8,017.26	0.00	0.00	0.00
17,100.00	90.00	359.65	8,624.85	8,069.02	894.65	8,116.80	0.00	0.00	0.00
17,200.00	90.00	359.65	8,624.85	8,169.02	894.03	8,216.33	0.00	0.00	0.00
17,300.00	90.00	359.65	8,624.84	8,269.02	893.42	8,315.87	0.00	0.00	0.00
17,400.00	90.00	359.65	8,624.84	8,369.02	892.80	8,415.41	0.00	0.00	0.00
17,500.00	90.00	359.65	8,624.84	8,469.01	892.18	8,514.94	0.00	0.00	0.00
17,600.00	90.00	359.65	8,624.84	8,569.01	891.56	8,614.48	0.00	0.00	0.00
17,700.00	90.00	359.65	8,624.84	8,669.01	890.95	8,714.02	0.00	0.00	0.00
17,800.00	90.00	359.65	8,624.83	8,769.01	890.33	8,813.55	0.00	0.00	0.00
17,900.00	90.00	359.65	8,624.83	8,869.01	889.71	8,913.09	0.00	0.00	0.00
18,000.00	90.00	359.65	8,624.83	8,969.00	889.09	9,012.63	0.00	0.00	0.00
18,100.00	90.00	359.65	8,624.83	9,069.00	888.47	9,112.16	0.00	0.00	0.00
18,200.00	90.00	359.65	8,624.83	9,169.00	887.86	9,211.70	0.00	0.00	0.00
18,300.00	90.00	359.65	8,624.82	9,269.00	887.24	9,311.24	0.00	0.00	0.00
18,400.00	90.00	359.65	8,624.82	9,369.00	886.62	9,410.77	0.00	0.00	0.00
18,500.00	90.00	359.65	8,624.82	9,468.99	886.00	9,510.31	0.00	0.00	0.00
18,600.00	90.00	359.65	8,624.82	9,568.99	885.39	9,609.84	0.00	0.00	0.00
18,700.00	90.00	359.65	8,624.82	9,668.99	884.77	9,709.38	0.00	0.00	0.00
18,809.29	90.00	359.65	8,625.00	9,778.28	883.86	9,818.15	0.00	0.00	0.00

Database: Company: Project: Site: Well: Wellbore: Design:	y: TAP ROCK RESOURCES EDDY COUNTY SEC 16-T25S-R26E SCHLITZ FED COM 202H					rdinate Reference: nce: lce: rence: culation Method:	KB 25. KB 25. Grid	CHLITZ FED COM 202H 5 @ 3454.50usft 5 @ 3454.50usft ım 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
SCHLITZ FED 202H LT - plan misses targe - Point		0.00 00usft at 186	8,625.00 79.04usft MI	9,648.27 D (8624.82 TV	923.50 D, 9648.03 N,	418,694.14 , 884.90 E)	551,617.93	3 32.1510643°N	104.3001148°W
SCHLITZ FED 202H PE - plan hits target ce - Point		0.00	8,625.00	9,778.28	883.86	418,824.15	551,578.29	9 32.1514218°N	104.3002427°W
SCHLITZ FED 202H FT - plan misses targe - Point		0.00 34usft at 880	8,625.00 0.00usft MD	-253.73 (8562.52 TVD	984.26), -220.93 N, 9	408,792.14 945.87 E)	551,678.69	9 32.1238442°N	104.2999284°W

Formations

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	495.00	495.00	Rustler Anhydrite			
	940.00	940.00	Top Salt			
	1,675.00	1,675.00	Base Salt			
	1,875.00	1,875.00	Delaware Mountain Gp			
	1,880.00	1,880.00	Lamar			
	1,930.00	1,930.00	Bell Canyon			
	1,975.00	1,975.00	Ramsey Sand			
	2,890.68	2,890.00	Cherry Canyon			
	3,819.37	3,800.00	Brushy Canyon			
	5,509.00	5,445.00	Bone Spring Lime			
	5,632.26	5,565.00	Upper Avalon			
	5,971.21	5,895.00	Middle Avalon			
	6,284.49	6,200.00	Lower Avalon			
	6,464.23	6,375.00	1st Bone Spring Sand			
	6,762.10	6,665.00	2nd Bone Spring Carb			
	7,244.85	7,135.00	2nd Bone Spring Sand			
	7,332.01	7,220.00	3rd Bone Spring Carb			
	8,293.98	8,175.00	3rd Bone Spring Sand			
	8,576.19	8,425.00	3rd BS W Sand			
	8,744.57	8,535.00	Wolfcamp A X Sand			
	8,828.93	8,575.00	Wolfcamp A Y Sand			

Plan Annotations					
Measured	Vertical Local Coordinates		ordinates		
Depth	Depth	+N/-S	+E/-W		
(usft)	(usft)	(usft)	(usft)	Comment	
2,500.0	2,500.00	0.00	0.00	Start Build 1.50	
3,379.9	3,372.13	-49.51	87.92	Start 3880.23 hold at 3379.90 MD	
7,260.1	2 7,149.87	-484.22	859.88	Start Drop -1.50	
8,140.0	8,022.00	-533.73	947.80	Start 30.00 hold at 8140.02 MD	
8,170.0	8,052.00	-533.73	947.80	Start DLS 10.00 TFO 359.65	
9,070.1	0 8,625.00	39.27	944.26	Start 9739.20 hold at 9070.10 MD	
18,809.2	8,625.00	9,778.28	883.86	TD at 18809.29	

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Company and Well Name: Schlitz Federal Com 202H, 204H, 211H, 213H, 231H, 232H, 233H, and 234H Reference Number: NMNM 100324

ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

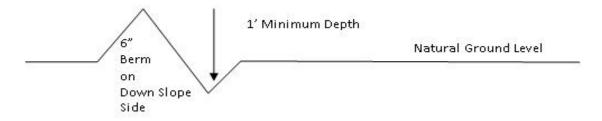
Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall conform to Figure 1; cross section and plans for typical road construction.

Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope: 400' + 100' = 200' lead-off ditch interval 4%

Cattleguards

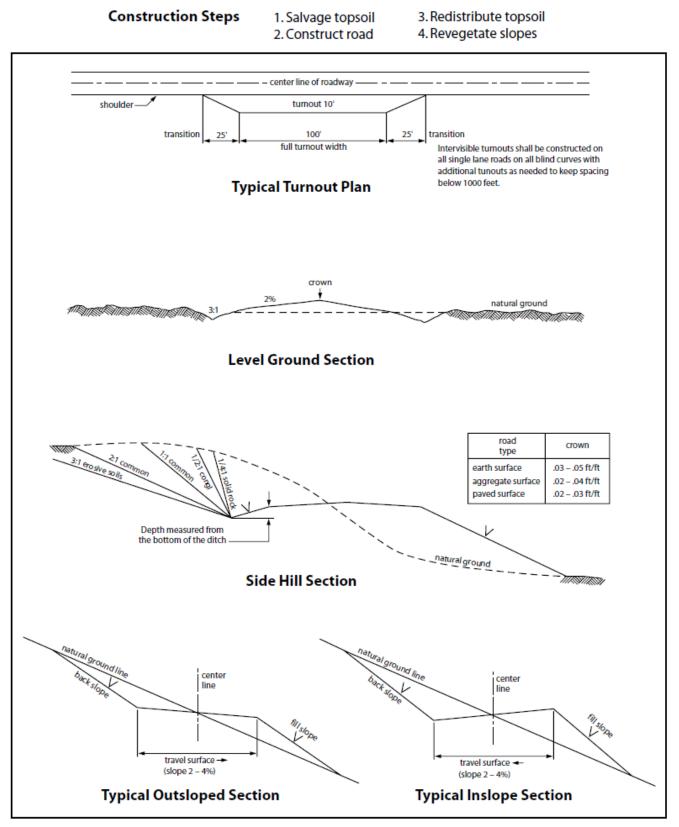
An appropriately sized cattleguard sufficient to carry out the project shall be installed and maintained at fence/road crossings. Any existing cattleguards on the access road route shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguards that are in place and are utilized during lease operations.

Fence Requirement

Where entry is granted across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting. The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fences.

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.





STANDARD STIPULATIONS FOR OIL AND GAS RELATED SITES

A copy of the application (Grant/Sundry Notice) and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder agrees to comply with the following stipulations to the satisfaction of the Authorized Officer, BLM.

1. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant and for all response costs, penalties, damages, claims, and other costs arising from the provisions of the Resource Conservation and Recovery Act (RCRA), 42 U.S.C. Chap. 82, Section 6901 et. seq., from the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), 42 U.S.C. Chap. 109, Section 9601 et. seq., and from other applicable environmental statues.

2. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, et. seq.) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

3. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, et. seq. or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, et. seq.) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

4. If, during any phase of the construction, operation, maintenance, or termination of the site or related pipeline(s), any oil or other pollutant should be discharged from site facilities, the pipeline(s) or from containers or vehicles impacting Federal lands, the control and total removal, disposal, and cleanup of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting therefrom, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	Tap Rock Operating LLC
WELL NAME & NO.:	Schlitz Fed Com 232H
LOCATION:	Sec 16 / 25S /26E / NMP
COUNTY:	Eddy County, New Mexico

COA

H2S	• Yes	C No	
Potash	None	C Secretary	C R-111-P
Cave/Karst Potential	C Low	C Medium	💽 High
Cave/Karst Potential	Critical		
Variance	C None	• Flex Hose	C Other
Wellhead	Conventional	Multibowl	C Both
Other	4 String Area	Capitan Reef	□ WIPP
Other	Other Fluid Filled		Pilot Hole
Special Requirements	□ Water Disposal	COM	🗖 Unit

A. HYDROGEN SULFIDE

A Hydrogen Sulfide (H2S) Drilling Plan shall be activated 500 feet prior to drilling into the **Delaware and Bone Spring** formations. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.

B. CASING

- 1. The **13-3/8** inch surface casing shall be set at approximately 575 feet (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite and above the salt) 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</u> <u>hours</u> or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours

after bringing cement to surface or 500 pounds compressive strength, whichever is greater.

- d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the **9-5/8** inch intermediate casing is:
 - Cement to surface. If cement does not circulate see B.1.a, c-d above. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.
- 3. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification. **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**
 - In <u>High Cave/Karst Areas</u> if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
- 4. The minimum required fill of cement behind the 5-1/2 inch production casing is:
 - Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

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. This assembly will only be tested when installed on the surface casing. 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.

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e. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i 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.
- 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. <u>When the Communitization Agreement number is known, it shall also be on the sign.</u>

GENERAL REQUIREMENTS

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

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

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

Lea County Call the Hobbs Field Station, 414 West Taylor, Hobbs NM 88240, (575) 393-3612

- 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

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rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).

- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
- 2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
- 3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

- 1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
- <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 conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least <u>24 hours</u>. WOC time will be recorded in the driller's log. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.
- 3. <u>Wait on cement (WOC) for Water Basin:</u> 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 <u>8 hours</u>. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing intergrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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- 4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
- 5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
- 6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
- 7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
- 8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
- 3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
- 4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- c. Manufacturer representative shall install the test plug for the initial BOP test.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
- e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- 5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).
 - d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall

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have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.

- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

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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
 - Yellow Flag Potential Pressure and Danger
 - Red Flag Danger (H2S present in dangerous concentrations) Only H2S trained personnel admitted on location

5 <u>Well Control Equipment:</u>

• See Drilling Operations Plan Schematics

6 Communication:

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



7 Drilling Stem Testing:

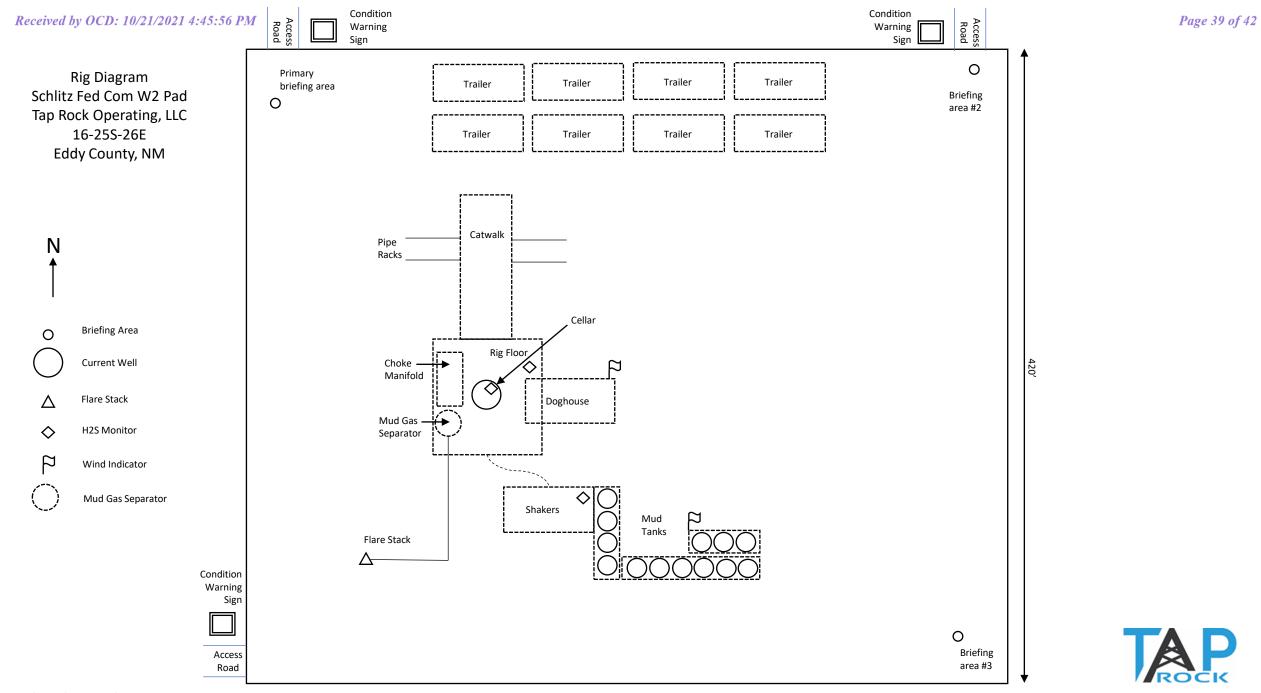
• No DST cores are planned at this time

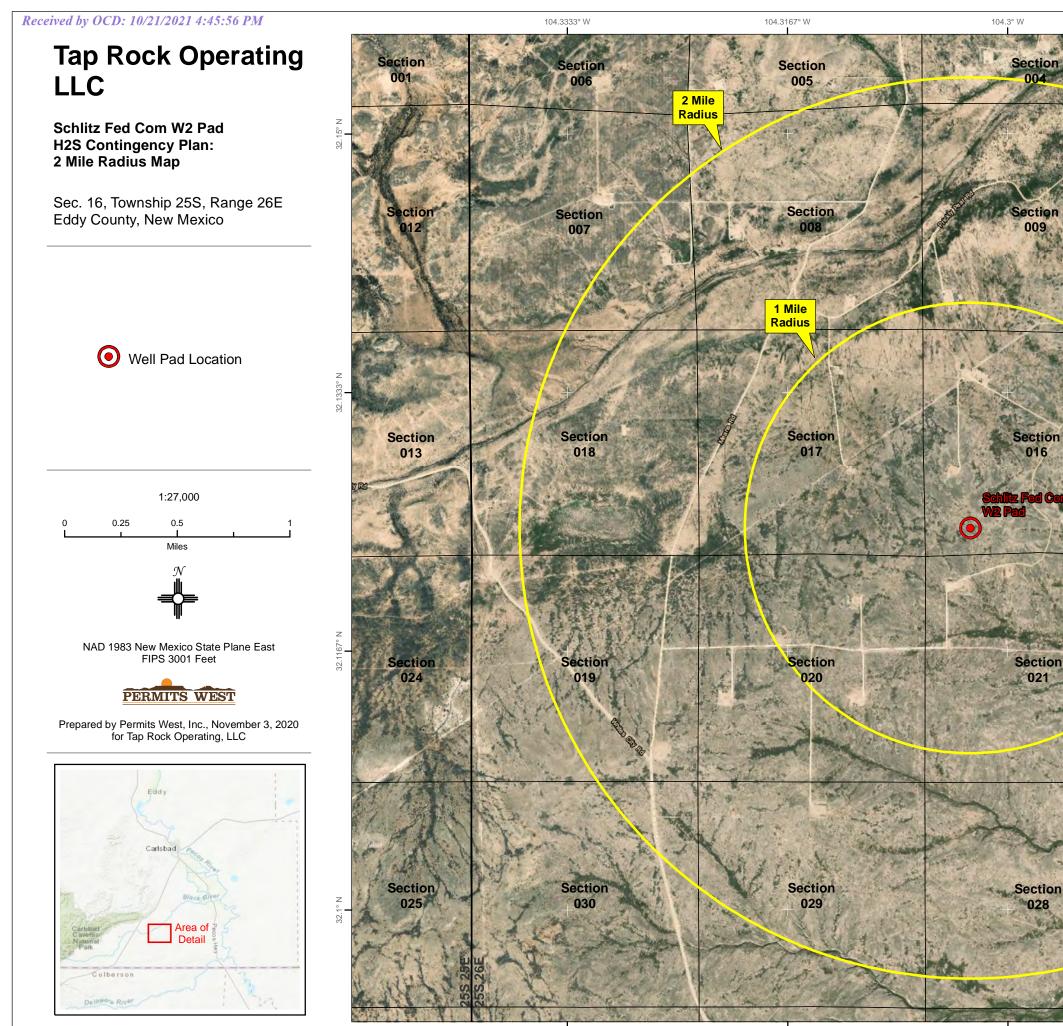
8 Drilling contractor supervisor will be required to be familiar with the effects H2S has on tubulars good and other mechanical equipment

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

11 Emergency Contacts

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





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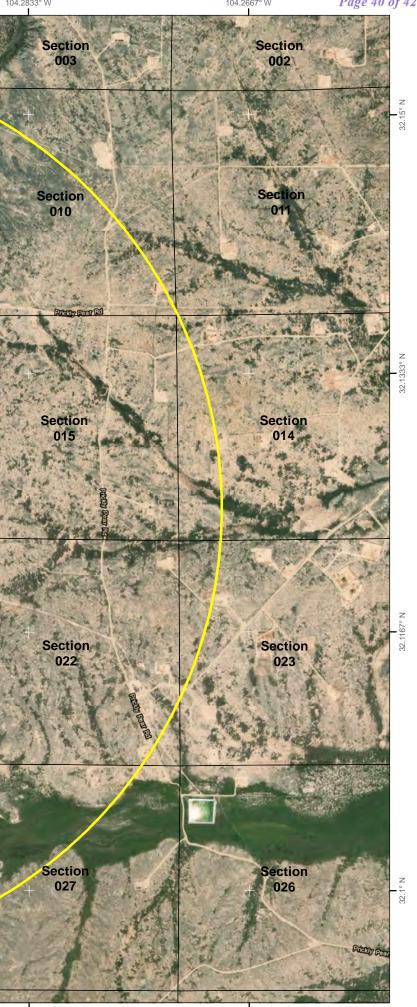
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District I 1625 N. French Dr., Hobbs, NM 88240 Phone: (575) 393-6161 Fax: (575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

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COMMENTS

Action 57424

COMMENTS Operator: OGRID: TAP ROCK OPERATING, LLC 372043 523 Park Point Drive Action Number: Golden, CO 80401 57424 Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

COMMENTS

Created By	Comment	Comment Date
kpickford	KP GEO Review 10/22/2021	10/22/2021

District I 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 District IV

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Operator:	OGRID:
TAP ROCK OPERATING, LLC	372043
523 Park Point Drive	Action Number:
Golden, CO 80401	57424
	Action Type:
	[C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

-	Condition	Condition
Ву		Date
kpickford	Notify OCD 24 hours prior to casing & cement	10/22/2021
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	10/22/2021
	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	10/22/2021
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	10/22/2021
	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	10/22/2021
kpickford	Operator is out of compliance due to bonding on 30-025-38873. Operator must be in compliance with 5.9 before any C-104s will be approved.	10/27/2021

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